LIT

ACTIVE LEADERSHIP IN
EDUCATION, ENTERPRISE
AND ENGAGEMENT

ANNUAL REPORT

2012-2013

This is the Annual Report of the Limerick Institute of Technology

The Report covers the period 1st September 2012 to 31st August 2013

LIT

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AND ENGAGEMENT

ANNUAL REPORT

2012-2013

www.lit.ie

Limerick Institute of Technology
Institiúid Teicneolaíochta Luimnigh

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LIT is the fourth largest IOT in Ireland, with over 6,000 students, 550 staff and a major higher education presence in Munster with four major campuses and three other centres strategically located in counties Limerick, Tipperary and Clare.

01

CHAIRMAN'S & PRESIDENT'S STATEMENTS

CHAIRMAN'S STATEMENT

LIT has a long and proud tradition of distinctive teaching and learning excellence dating back to 1852 when the Athenaeum Society started a School of Arts and Fine Crafts in Limerick. This tradition has been built around the professionalism and experience of staff, and an accumulated knowledge of learner, employer and societal needs. During the year under review, once again LIT delivered education, training, research and community engagement programmes true to its long history and its mission, and fitting with its forward-looking vision and strategic objectives.

LIT is the fourth largest IOT in Ireland, with over 6000 students, 550 staff and a major higher education presence in Munster with four major campuses and three other centres strategically located in counties Limerick, Tipperary and Clare. LIT was chosen as the Sunday Times Institute of Technology of the Year for 2013, for the second time in its history – this achievement is unique in the sector.

LIT is at the heart of the region. Limerick City is defined by the great river Shannon, and during 2012 was designated as the City of Culture for 2014. LIT, particularly the School of Art and Design, played a major part in Limerick's successful submission to attain City of Culture status. Limerick is also a modern urban centre with a reputation for advanced industry across numerous sectors: ICT, pharmaceutical, financial services, health care, creative technologies, hospitality, sport and tourism. LIT works closely with major multinationals and indigenous players across all these sectors, to provide them with the skilled workforce they need.

LIT Tipperary (formerly Tipperary Institute) has two campuses in Thurles and Clonmel. LIT's fifth school is experiencing a period of exciting change, growth and development. Student numbers are increasing, creating a lively and rewarding campus experience.

As a modern and significantly enlarged third level institution, LIT will continue to provide higher education opportunities throughout the region which benefit current students and future graduates, industry and the wider community. LIT is also working closely with the city and regional authorities to deliver an ambitious campus masterplan, which is seen by all the stakeholders as a key infrastructural plank to the further development of the economy and the wider environment.

As the Chairman of the Governing Body for the past five years, with my term now nearing completion, I am extremely proud to have assisted in the phenomenal development of LIT with staff and management. I congratulate all the staff and the management and in particular the leadership qualities of the President, Dr. Maria Hinfelaar on the progress they have made and I will follow future developments with great interest. I would also like to wish my successor, Niall Greene, every success with the task ahead.

Mr. John Clifford
Chairman LIT Governing Body

PRESIDENT'S STATEMENT

LIT's strategy is to provide active leadership in education, enterprise and engagement. The hallmark of our educational philosophy is active learning through a fusion of theory and practice. We live up to that reputation every day: it is embedded in our teaching and learning approaches, our assessment methods, and, increasingly, in how we reconfigure our campuses and learning environments. Our students and our industry partners frequently tell us that they value the active learning ethos, and we score consistently well in student and graduate surveys across Ireland and the EU which measure key components such as practical application, perceived preparation for the workplace and how well students are supported. Our core educational provision in the broad discipline areas of Humanities and Arts, Social Science, Business and Law, Science, Information Technology, Engineering and Services is further complemented with significantly growing research, enterprise and engagement activity.

LIT's research programme reflects a spirit of innovation which benefits society. For instance, during the year under review an LIT research project was chosen by the Space Florida International Space Station (ISS) Research Competition as one of just eight projects worldwide. This project will investigate how certain plant organisms respond to micro-gravity conditions and will provide answers to crucial questions about how to improve crop yields, which could contribute to solving global food shortages. The selection of this project is a huge statement and validation for the progressive and critical nature of LIT's research programme.

LIT is proud of its record in widening participation and we can boast a high level of social inclusivity across our student population. We are committed to offering equitable access to all members of society, including under-represented groups such as students who experience socio-economic disadvantage, students with a disability or specific learning difficulties, and mature learners. Once again in 2012/13, LIT exceeded national benchmarks for such groups and we are thereby making a major contribution to the achievement of policy objectives as set by the HEA.

These are fascinating times in the world of higher education. New national policy is aimed at encouraging deeper collaboration between institutions, so that improved pathways can be offered to students both at undergraduate and postgraduate levels. LIT is no stranger to the agenda of collaboration and consolidation, as we set the example to the sector in 2011 with the integration of the former Tipperary Institute to form a larger multi-campus institution. It is likely that more mergers will follow elsewhere, but LIT has adopted a strategy to continue to develop as an autonomous, strong institute of technology under our existing name and identity. Supported by enabling national policy, closer collaborative links are being forged with the University of Limerick and Mary Immaculate College as the Mid-West Regional Cluster, which will also extend its collaboration network to the new Education and Training Boards.

In October 2013, Mr. Niall Greene was appointed as the new Chairman of our Governing Body by the Minister for Education and Skills, Ruairi Quinn TD. Mr. Niall Greene succeeds Mr. John Clifford, who completed a successful five-year term at the end of September. On behalf of the entire LIT community, I would like to extend my heartfelt thanks to John Clifford for his support and commitment over the past number of years. I would also like to welcome Niall Greene and wish him every success for his five-year term.

Dr. Maria Hinfelaar
President LIT

A Governing Body was appointed for the period September 2011 up to 31st August 2016. 10 ordinary meetings of this Governing Body were held during the year under review.

02

GOVERNANCE & MANAGEMENT

2.1 GOVERNING BODY

A Governing Body was appointed for the period September 2011 up to 31st August 2016. 10 ordinary meetings of this Governing Body were held during the year under review. In addition, 4 Audit subcommittee meetings, and 2 Strategy subcommittee meetings were also held during the year under review. A new Finance subcommittee was established with 3 meetings being held in the year.

Members

28th September 2011 to 31st August 2016

Mr. John Clifford	Chairman (to September 2013)
Dr. Maria Hinfelaar	President

Six V.E.C. Nominees under Section 4(1) (a) & (b) of Regional Technical Colleges (Amendment Act) 1994, IOT Act 2006.

Cllr. Maria Byrne	City of Limerick VEC - Amalgamated to form Limerick and Clare Education and Training Board as of 1st July 2013.
Cllr. Joe Leddin	City of Limerick VEC - Amalgamated to form Limerick and Clare Education and Training Board as of 1st July 2013.
Cllr. Mary Jackman (Vice–Chair)	Co. Limerick VEC - Amalgamated to form Limerick and Clare Education and Training Board as of 1st July 2013.
Mr. Michael Corley	Co. Clare VEC - Amalgamated to form Limerick and Clare Education and Training Board as of 1st July 2013.
Mr. David Leahy (To December 2012)	Co. Tipperary N. R VEC - Amalgamated to form Tipperary Education and Training Board as of 1st July 2013.
Cllr. Micheál Lowry (From January 2013)	Co. Tipperary N.R. VEC - Amalgamated to form Tipperary Education and Training Board as of 1st July 2013.
Ms. Fionuala Mc Geever	Co. Tipperary S.R. VEC - Amalgamated to form Tipperary Education and Training Board as of 1st July 2013.

Five Elected Nominees under Section 4(1) (c) (d) & (e) of Regional Technical Colleges (Amendment) Act 1994, IOT Act 2006.

Mr. Russell Roche	Student (Male-2012-2013)
Ms. Niamh Kavanagh	Student (Female-2012-2013)
Ms. Ita Kavanagh	Academic Staff
Mr. Dáithi Sims	Academic Staff
Mr. Ger Hartigan	Non Academic Staff (from November 2011)

One I.C.T.U. Nominee under Section 4(1) (f) of Regional Technical Colleges (Amendment) Act 1994, IOT Act 2006.

Mr. Seán Treacy	Irish Congress of Trade Unions

Five VEC Nominees under Section 4(1) (g) of Regional Technical Colleges (Amendment) Act 1994, IOT Act 2006.

Mr. Pat Fitzgerald (To December 2012)	Munster Council, Cumann Luthchleas Gael
Mr. Simon Moroney (From April 2013)	Munster Council, Cumann Luthchleas Gael
Mr. Jim Nagle	Analog Devices
Dr. Kevin Kelleher	Health Service Executive
Ms. Margot Marsden	Enterprise Ireland
Ms. Paula Ryan	Institute of Certified Public Accountants

2.2 EXECUTIVE AND SENIOR MANAGEMENT

Executive Management

President	**Dr. Maria Hinfelaar**
Vice-President Academic Affairs and Registrar	**Mr. Terry Twomey**
Vice-President Corporate Services and Capital Development	**Mr. Jimmy Browne**
Vice-President Research Development and Enterprise	**Dr. Fergal Barry**
Vice-President Strategy and External Affairs	**Mr. Michael O Connell**
Head of School of Art & Design	**Mr. Mike Fitzpatrick**
Head of School of Business & Humanities	**Ms. Marian Duggan**
Head of School of the Built Environment	**Ms. Maria Kyne**
Head of School of Science, Engineering & Information Technology	**Mr. Paschal Meehan**
Head of LIT Tipperary School	**Mr. Colin Mc Lean**

Senior Management

Head of School of Engineering	**Dr. Edward Hayes**
Head of Department of Fine Art	**Ms. Tracy Fahey**
Head of Department of Design	**Mr. James Greenslade**
Head of Department of Business Management	**Mr. Donncha Mc Namara**
Head of Department of Humanities	**Dr. Catriona Murphy**
Head of Department of Finance and Professional Studies	**Mr. James Collins** (transferred 15/10/12)
Head of Department of the Built Environment	**Mr. Pat Gill**
Head of Department of Electrical & Electronic Engineering	**Mr. Dáithi Sims**
Head of Department of Mechanical & Automobile Engineering	**Dr. Philip Ryan**
Head of Department of Information Technology	**Ms. Janice O Connell**
Head of Department of Applied Science	**Ms. Michelle Mc Keon Bennett**
Head of Department of Business, Education & Social Science	**Ms. Moya Breen**
Head of Department of Technology, Media and Science	**Mr. Seamus Hoyne**
Head of Research and Technology Transfer	**Dr. Siobhan Moane**
Librarian	**Mr. Jerald Cavanagh**
Academic Administration & Student Affairs Manager	**Ms. Linda Barry**
Human Resources Manager	**Ms. Anne Twomey**
Finance Manager	**Mr. Gerry O Neill**
Estates Manager	**Mr. Ultan Gogarty**
IT Manager	**Mr. Niall Corcoran**
Marketing and Internationalisation Manager	**Mr. Mike Cox**
Enterprise Development and Business Liaison Manager	**Ms. Gillian Barry**
Development Manager, LIT Tipperary	**Mr. Ciaran Lynch**
Assistant Registrar	**Ms. Ann Murray** (from 1/09/2012)

The sixth Academic Council of Limerick Institute of Technology was elected in accordance with the regulations approved by the Governing Body for a three year period from March 2011.

03

ACADEMIC DEVELOPMENT & STUDENT AFFAIRS

3.1 ACADEMIC CALENDAR-2012/2013

Week No.	Beginning	
	20th August 2012	LIT Tipperary School Autumn Examinations
	27th August 2012	
1	3rd September 2012	Opening of Academic Year and Staff Development Monday, 3rd September
		Autumn Repeat Exams Commence Monday, 3rd September
		LIT Tipperary School 1st year Orientation & Registration 4th September
		Art & Design 1st Year Registration Wednesday, 5th September
2	10th September 2012	Registration & Induction Week
		SEIT First Year Registration Monday, 10th September
		Art & Design classes start Monday 10th September
		LIT Tipperary School Exam Board, 10th September - Results Published 13th September
		LIT Tipperary School. All full time classes start - Monday 10th September
		Exam Boards Start Monday, 10th September
		School of Business & Humanities 1st Year Registration Tuesday 11th September
		School of the Built Environment 1st Year Registration Wednesday, 12th September
		Apprenticeship Staff Development Day 13th September
3	17th September 2012	Governing Body Meeting 18th September
		Other full-time classes start-Monday 17th September
4	24th September 2012	Apprentices start 24th September
5	1st October 2012	Academic Council Meeting 5th October
6	8th October 2012	LIT Open Days - 11th and 12th October (To be Confirmed)
7	15th October 2012	Governing Body Meeting 16th October
8	22nd October 2012	LIT Tipperary School Conferrings, Friday 26th October
9	29th October 2012	Monday 29th October Bank Holiday
		Thursday, 1st November 2011 (Church Holiday)
		31st October, 1st and 2nd November - LIT Conferrings
10	5th November 2012	
11	12th November 2012	Science Week 11/12/13/14/15/16/17/18 November (To be Confirmed)
12	19th November 2012	Governing Body Meeting 20th November
13	26th November 2012	
14	3rd December 2012	Academic Council Meeting 7th December
15	10th December 2012	Engineering Week
		Christmas Exams 10/11/12/13/14th December
		Governing Body Meeting 13th December
		LIT Tipperary School Winter Exams 10/11/12/13/14/15th December
16/17	Christmas Holidays	Saturday 15th December 2012 - Sunday 6th January 2013 incl.
18	31st December 2012	Tuesday, 1st January, 2013 Bank Holiday
		Apprentice start date 4th January, 2013
19	7th January 2013	All students return Monday 7th January
20	14th January 2013	Governing Body Meeting 15th January
21	21st January 2013	LIT Tipperary School Winter Exam Boards Wed 25th January
22	28th January 2013	
23	4th February 2013	
24	11th February 2013	Rag Week 11th - 15th February
		Staff Development Day, 14th February
25	18th February 2013	Governing Body Meeting 19th February

Week No.	Beginning	
26	25th February 2013	Academic Council Meeting 1st March
		LIT Tipperary School Rag Week 25th Feb - 1st March
27	4th March 2013	
28	11th March 2013	
29	18th March 2013	Monday, 18th March, 2013 Bank Holiday
		Governing Body Meeting 19th March
30/31	Easter Holidays	Saturday 23rd March - Sunday 7th April inclusive
32	8th April 2013	
33	15th April 2013	Governing Body Meeting 16th April
34	22nd April 2013	
35	29th April 2013	
36	6th May 2013	Monday 6th May, 2013 Bank Holiday
		Thursday, 9th May - Church Holiday
		Academic Council Meeting 10th May
		Summer Examinations commence 10th May
37	13th May 2013	
38	20th May 2013	Governing Body Meeting 21st May
39	27th May 2013	Thursday, 30th May - Church Holiday
40	3rd June 2013	Monday 3rd June 2013 Bank Holiday
		Exam Boards start 4th June
41	10th June 2013	
42	17th June 2013	Exam Reviews 17/18/19th June
		Academic Council Meeting 17th June
		Governing Body Meeting 18th June

Note 1: This calendar is subject to some School/Department variations due to Block Release and Placement Start/Finishing Times.

3.1.1 MEMBERSHIP OF ACADEMIC COUNCIL

The sixth Academic Council of Limerick Institute of Technology was elected in accordance with the regulations approved by the Governing Body for a three year period from March 2011.

The following is a list of members for Academic Council 2011 – 2013.

Ex-Officio members

Dr. Maria Hinfelaar	President
Mr. Terry Twomey	Vice President Academic Affairs & Registrar
Mr. Jimmy Browne	Vice President Corporate Services & Capital Development
Dr. Fergal Barry	Vice President Research, Development & Enterprise
Dr. Edward Hayes	Head of School of Engineering
Mr. Mike Fitzpatrick	Head of School of Art & Design
Ms. Maria Kyne	Head of School of the Built Environment
Mr. Paschal Meehan	Head of School of Science Engineering & Information Technology
Ms. Marian Duggan	Head of School of Business & Humanities
Mr. Colin McLean	Head of LIT Tipperary School
Ms. Tracy Fahey	Head of Department of Fine Art
Mr. James Greenslade	Head of Department of Design
Mr. Pat Gill	Head of Department of the Built Environment
Ms. Michelle McKeon Bennett	Head of Department of Applied Science
Ms. Janice O'Connell	Head of Department of Information Technology
Mr. Dáithi Sims	Head of Department of Electrical & Electronic Engineering
Dr. Philip Ryan	Head of Department of Mechanical & Automobile Engineering
Mr. Donnacha McNamara	Head of Department of Business Management
Mr. James Collins	Head of Department of Finance & Professional Studies
Dr. Catriona Murphy	Head of Department of Humanities
Ms. Moya Breen	Head of Department of Business Education & Social Science
Mr. Seamus Hoyne	Head of Department of Technology, Media & Science
Mr. Jerald Cavanagh	Institute Librarian

Student Representatives

Ms. Niamh Kavanagh	Student Representative, Moylish Park Campus
Ms. Michelle Egan	Student Representative, Clare Street Campus
Mr. Russell Roche	Student Representative, Tipperary Campus

Elected Representatives

School of Art & Design:	Male	(2)	Mr. Adrian Byrne
			Mr. Mark O'Kelly
	Female	(2)	Ms. Elaine Riordan
			Ms. Clodagh Twomey
School of the Built Environment:	Male	(1)	Mr. Tony Wallace
	Female	(1)	Ms. Maire Daly
	Common	(2)	Mr. Kevin O'Riordan
			Mr. Paul Vesey

School of Business & Humanities			
Department of Business:	Male	(1)	Mr. Conor Foley
	Female	(1)	Ms. Gillian Clogan
	Common	(1)	Mr. Richard Boylan
Department of Humanities:	Male	(1)	Mr. Joe Mulcahy
	Female	(1)	Dr. Noelle O'Connor
	Common	(1)	Ms.Patricia Cremen
School of Science Engineering & Information Technology			
Department of Electrical & Electronic Engineering:	Male	(1)	Mr. John Cosgrove
	Female	(1)	Ms.Trish Jones
	Common	(2)	Mr.Peter Gorman
			Mr. Donagh O'Shea
Department of Mechanical & Automobile Engineering:	Common	(2)	Mr. Tony Mahon
			Dr. Michael Daragh Naughton
Department of Information Technology:	Male	(1)	Mr. Neil Higgins
	Female	(1)	Mr. Maureen Falvey
Department of Applied Science:	Male	(1)	Dr. Jim Healy
	Female	(1)	Dr. Elaine Raggett
General:	Common	(1)	Ms. Ann Murray
LIT Tipperary School:	Male	(1)	Mr. Eamon Dalton
	Female	(1)	Ms. Laura Dargan
	Common	(1)	Dr. Martin Fitzgerald

3.1.2 ACADEMIC COUNCIL SUB-COMMITTEES

It was agreed that the Terms of Reference for all Sub-Committees should be approved by Academic Council and that the Registrar, as an ex-officio member for all sub-committees should be responsible for convening all meetings.

There were eight sub-committees of Academic Council.

The following members were approved at a meeting of the Academic Council with additional members to be co-opted as appropriate.

Academic Quality

Mr. Terry Twomey - Presiding
Dr. Edward Hayes
Ms. Ann Murray
Mr. Mike Fitzpatrick
Ms. Maria Kyne
Ms. Katherine Maughan
Dr. Derek McInerney
Mr. Martin Neville
Ms. Sara Jane Kickham
Mr. Ian Foley
Mr. Ailbe Burke
Mr. Jerald Cavanagh
Ms. Moya Breen
Mr. James Greenslade
Mr. Seamus Doyle
Ms. Susan Halvey
Dr. James Griffin
Mr. Michael Sheehan
Mr. Russell Roche
Ms. Michelle McKeon-Bennett
Ms. Mags Fennell (Observer)
Ms. Gillian Clogan (Resigned 24/9/2012)
Dr. Tracey Larkin
(Resigned 24/9/2012)
Ms. Cliona Campbell
(Transferred March 2013)

Academic Reviews

Mr. Terry Twomey - Presiding
Dr. Fergal Barry
Dr. Edward Hayes
Ms. Ann Murray
Mr. James Collins
Mr. Seumas O'Sullivan
Ms. Nichola O'Connell
Ms. Marian Duggan
Dr. Derek McInerney
Ms. Patricia Cremen
Mr. Kenneth Switzer
Ms. Laura McInerney
Mr. Paschal Meehan
Mr. Donagh O'Shea
Mr. Peter Gorman
Dr. Liam Noonan
Ms. Moya Breen
Mr. Mike Fitzpatrick
Ms. Tracy Fahey
Mr. Nicholas Brady
Mr. Eoin Fitzgerald
Ms. Michelle McKeon-Bennett
Dr. Willie Fitzgerald
Mr. Colin McLean
Ms. Aparecida Silva

Admissions, Academic Progress and Student Retention

Mr. Terry Twomey – Presiding
Dr. Fergal Barry
Dr. Edward Hayes
Ms. Ann Murray
Ms. Anne O'Donovan
Ms. Miriam Grimes
Ms. Linda Barry
Mr. Dáithi Sims
Mr. Colin McLean
Mr. James Greenslade
Mr. Pat Gill
Mr. John Corcoran
Mr. Mike Fox
Mr. Donnacha McNamara
Ms. Sarah Landy
Mr. Bosco Clarke
Mr. Michael Conway
Ms. Janice O'Connell
Ms. Caroline Shanley
Ms. Trish Jones
Dr. Michael Monaghan
Ms. Kate Dwyer
Ms. Frances O'Connell
Mr. Geoff Hunter
Ms. Niamh Kavanagh

Research & Development

Dr. Siobhan Moane – Presiding
Mr. Terry Twomey
Dr. Fergal Barry
Ms. Anne O'Donovan
Ms. Bridget Ronan
Ms. Kathleen Leamy
Mr. John Cosgrove
Mr. Joe Dunk
Dr. Kieran Cashell
Dr. Dara Waldron
Ms. Sarah Landy
Dr. Sinead O'Leary
Ms. Louise Nugent
Dr. Frances Hardiman
Dr. Michael D. Naughton
Mr. Ronan O'Brien
Mr. Jonathan Blackmore
Mr. Redmond Condon
Ms. Gillian Barry
Dr. Frank Houghton
Dr. Catriona Murphy
Dr. Josephine Tracy
Dr. Ken Oakley
Ms. Janice O'Connell
Dr. Tracey Larkin
Mr. Ciaran Lynch
Mr. Philip Hennessy
Mr. Clifford Guest
Mr. David Kiely
Mr. Kyle Murphy

Student Support, Access & Equality Issues

Mr. Terry Twomey – Presiding
Mr. Jerald Cavanagh
Fr. Declan Murray
Ms. Alice Meagher
Ms. Noreen Keane
Ms. Linda Barry
Ms. Joanne Holland
Ms. Anne O'Donovan

Ms. Miriam Grimes
Dr. Edward Hayes
Ms. Ann Murray
Ms. Theresa O'Sullivan
Mr. Seoirse Bulfin
Ms. Maria O'Kelly
Mr. Sajjad Sajjadi
Ms. Margaret O'Sullivan
Ms. Jennifer Stritch
Ms. Karen Sugrue
Ms. Cathy Jones
Dr. Paddy Walsh
Mr. Ed Mullen
Dr. John O'Kelly
Dr. Nancy Shanley
Ms. Marian Lynch
Ms. Carolann Bargary
Ms. Patricia Quigley
Mr. Gerry O'Neill
Ms. Clodagh Twomey
Ms. Dawn Coleman
Ms. Niamh Kavanagh
Ms. Tara Roddy
Mr. Timmy Keane
Ms. Amanda Dunsmore
(Resigned 13/9/2012)

Teaching & Learning Resources and Academic Professional Development

Mr. Terry Twomey – Presiding
Ms. Ann Murray
Ms. Anne Twomey
Mr. Jerald Cavanagh
Mr. Michael Tuohy
Mr. Samuel Hayden
Ms. Tara Frawley
Mr. Michael Mooring
Ms. Lisa Scott
Ms. Marian Twomey
Mr. Billy Madden
Mr. William Ward
Mr. Adrian Byrne
Mr. Michael Dillane
Mr. Shane Barron
Mr. Joe Mulcahy
Mr. Eoghan Sadlier
Mr. Flaithri Neff
Ms. Linda Barry
Mr. Paul Morrow
Ms. Broze O'Donovan
Mr. Eamon Dalton
Dr. Martin Fitzgerald
Dr. Michael Francis Ryan
Mr. Ger Moynihan
Mr. Ian Riordan
Ms. Grainne O'Dwyer
Ms. Niamh Kavanagh

Apprenticeship & Craft Education

Mr. Eddie Nolan - Presiding
Mr. Terry Twomey
Ms. Anne O'Donovan
Ms. Miriam Grimes
Mr. Tony Wallace
Mr. Michael Beasley
Mr. Alan Carr
Mr. John Cosgrove
Mr. Sean DeBhulbh
Mr. Thomas Martin
Mr. Liam Kelly
Mr. Gerry O'Brien
Ms. Eithne Gavigan
Mr. Francis Condon
Mr. Steven Kavanagh

Active Learning, Placements and International Dimensions

Dr. Maria Hinfelaar – Presiding
Mr. Terry Twomey
Dr. Edward Hayes
Mr. Mike Cox
Ms. Ann Murray
Ms. Niamh Kavanagh
Mr. Donnacha McNamara
Ms. Emma O'Halloran
Ms. Agnes Bouchier-Hayes
Dr. Eleanor Fitzmaurice
Ms. Brid Crotty
Dr. Catriona Murphy
Dr. Jim Healy
Ms. Marie Walsh
Mr. John Jennings
Mr. Michael Mooring
Ms. Tracy Fahey
Ms. Fiona Bourke
Mr. Aidan O'Connor
Ms. Roisin Crowley
Mr. Keith Moloney
Mr. Niall Enright
Mr. Jerald Cavanagh
Ms. Joanne Holland
Ms. Laura Dargan
Mr. James Greenslade
Mr. Meelius Kuusk
Ms. Ashley Harper

3.2 ACADEMIC DEVELOPMENTS

The following New Programme Proposals were approved in the period:

School of Art & Design

- B.A. (Hons) in Design in Fashion Knitwear & Textiles
- BA (Hons) in Creative Interdisciplinary Arts
- Higher Certificate in Science in Digital Animation Production
- B.Sc. in Digital Animation Production.

School of The Built Environment

- B.Sc. (Hons) in Wood Products Technology
- B.Sc (Hons) in Energy Management.

School of Business & Humanities

Department of Business Management

- Bachelor of Business (Hons) in Human Resource Management.

Department of Finance & Professional Studies

- BA in Sport & Community Development.

Department of Humanities

- BA in Hospitality Studies
- BA in Culinary Arts.

School of Science, Engineering and Information Technology

Department of Electrical & Electronic Engineering

- B.Sc. in Uilleann Pipe Technology & Manufacture
- B.Sc. in Digital Film Production & Technology
- B.Sc. in Theatre Technology & Event Management
- B.Sc. in Music Technology & Performance.

Department of Mechanical & Automobile Engineering

- B.Eng Agricultural Machinery Technology & Management.

LIT Tipperary School

- B.Sc. (Hons) in Sports Strength & Conditioning (Soccer)
- B.Sc. (Hons) in Sports Strength & Conditioning (Rugby)
- B.Sc. (Hons) in Sports Strength & Conditioning (Gaelic Games)
- Higher Certificate in Strength & Conditioning for Gym Instructors
- B.Sc. (Hons) in Cloud Computing
- B.Sc (Hons) in Computing.

The following Special Purpose Awards were approved:

- Certificate in Electrical Installation Practice
- Certificate in GIS
- Certificate in Marketing & German
- Certificate in Marketing & French
- Level 9 Certificate in Business & Agriculture
- Diploma in Research Practice
- Certificate in Research Practice
- Certificate in Diversity in Sport
- Level 6 Certificate in Research Skills
- Level 6 Certificate in Commercial IT Skills
- Level 6 Certificate in Commercial Management
- Level 6 Certificate in Communication Skills
- Certificate in Health Advocacy & Community Development
- Level 6 Certificate in International Marketing and French
- Level 6 Certificate in International Marketing and German
- Level 6 Certificate in Community Leadership
- Level 6 Certificate in Addiction Counselling
- Level 6 Certificate in Introduction to Environmental Sustainability
- Level 9 Certificate in Research Methods
- Level 9 Certificate in Research Management
- Level 9 Certificate in Personal Development for Researchers
- Level 9 Certificate in Communications for Researchers
- Level 9 Certificate in Data Handling and Analysis
- Level 9 Certificate in Creativity and Entrepreneurship
- Level 6 Electronic Engineering
- Level 6 Electronic Engineering Fundamentals
- Level 8 Enterprise Solutions Developments.

Annual School Reports 2011/2012

Annual School Reports from the following Schools were presented to Academic Council;

- School of the Built Environment.
- School of Art & Design
- School of Business & Humanities
- School of Science, Engineering and Information Technology
- LIT Tipperary School.

Annual School Reports 2011/2012

The following Annual Reports were presented to Academic Council;

- Chaplaincy Service Annual Report
- Learning Support Unit Annual Report
- Student Medical Unit Report
- Careers Service.

External Examiner Nominations 2012-13

External Examiner Nominations were reviewed for the following Schools/ Departments, approved by Academic Council and recommended for approval to Governing Body.

- School of Art & Design
- School of the Built Environment
- School of Business & Humanities
- School of Science, Engineering & Information Technology
- LIT Tipperary School.

Research

- 25 new Applications for Admission to the Postgraduate Register were approved
- 6 Applications to Transfer to the Doctoral Register were approved. Quality Assurance Handbook – LIT Quality Assurance Policy & Procedures.

Quality Assurance Handbook – LIT Quality Assurance Policy & Procedures

The annual review of the Quality Assurance Handbook was undertaken and the following documents were updated in accordance with agreed procedures;

Volume 2 LIT Academic Council

- Academic Council Documentation 2011 – 2013 (Approved by A.C. 14.12.12)

Volume 3 Academic Policies & Procedures:

- Academic Council Regulations & Procedures for Taught Programmes 2013/14 Part 1 and 2 (ACRP)

Volume 4 Operational Policies

- Writing & Using Learning Outcomes, A Guide for Academics 2013-2014 (Approved by A.C. 01.03.13)

Volume 7 Learning Resources & Student Support

- Smoke Free Workplace Policy

Volume 8 Quality Assurance of Staff

- LIT Equal Opportunity Policy (01.09.2012).

Examination Results

Academic Council approved the Examination Process and recommended ratification of the Autumn 2012 and Summer 2013 Results by Governing Body.

The Sunday Times University Guide 2013.

LIT was awarded the Institute of Technology of the Year 2013.

3.3.1 LIST OF FULL-TIME & CRAFT APPRENTICE COURSES

School Of Art and Design

Bachelor of Arts (Honours) in Art & Design

Master of Arts

Doctor of Arts in Art

Bachelor of Arts (Honours) in Design

Bachelor of Arts (Honours) in Fine Art

Master of Arts in Art and Design: Social Practice and the Creative Environment

Higher Diploma in Arts in Art and Design Teaching.

School of Business & Humanities

Department of Business Management

Bachelor of Business in Accounting and Finance

Bachelor of Business (Honours) in Accounting and Finance

Higher Certificate in Business in Accounting & Finance

Higher Diploma in Business Management

Bachelor of Business Studies (Hons) (IPA/NUI)

Master of Arts

Higher Certificate in Business in Legal Studies & Taxation

Bachelor of Business (Honours) in Law and Taxation

Bachelor of Business in Marketing and Management

Bachelor of Business (Honours) in Marketing and Management

Higher Certificate in Business in Marketing & Management

Master of Business in Marketing and Management Strategy.

Department of Humanities

Bachelor of Arts (Honours) in Business Studies with Event Management

Bachelor of Arts (Honours) in Business Studies with Sports Management

Higher Certificate in Arts in Business Studies with Tourism Management

Bachelor of Arts (Honours) in Business Studies with Tourism Management

Master of Arts in Humanities (Research)

Higher Certificate in Arts in Sports Coaching and Development

Bachelor of Arts (Honours) in Applied Social Studies in Social Care

Professional Cookery Traineeship FETAC Level 6 Day Release

Higher Certificate in Arts in Culinary Arts

Higher Certificate in Business Studies in Hotel Front Office Management

Higher Certificate in Arts in Hospitality Studies.

School of Science Engineering & IT

Department of Applied Science

Master of Science in Analytical Science with Research & Quality Management

Bachelor of Science (Honours) in Bioanalysis and Biotechnology

Bachelor of Science in Applied Biology

Bachelor of Science in Chemical Instrumentation/Analytical Methods

Bachelor of Science (Honours) in Chemical Instrumentation and Analysis

Higher Certificate in Science in Applied Chemistry

Bachelor of Science (Honours) in Drug and Medicinal Product Analysis

Bachelor of Science in Environmental and Analytical Science

Bachelor of Science (Honours) in Environmental & Analytical Science

Higher Certificate in Science in Environmental and Analytical Science

Bachelor of Science (Honours) in Pharmaceutical and Forensic Analysis

Bachelor of Science in Pharmaceutical and Forensic Analysis

Special Purpose Certificate in Project Management and Lean Six Sigma

Master of Science

Doctor of Philosophy.

Department of Electrical & Electronic Engineering

Bachelor of Science (Honours) in Audio and Video Production

Bachelor of Engineering in Electronic Engineering

Bachelor of Engineering in Manufacturing Technology

Bachelor of Science (Honours) in Electronic Systems

Bachelor of Science (Honours) in Sustainable Electrical Power Systems

Master of Engineering (Research)

Doctor of Engineering

Bachelor of Science (Honours) in Music Production

Bachelor of Science in Music Technology and Production

Bachelor of Science in Renewable & Electrical Energy Systems

Bachelor of Engineering in Technology in Video & Sound Technology

Higher Certificate in Engineering in Technology in Video & Sound Technology

Higher Certificate in Science in Video and Sound Technology

Apprentice Programme Electrician.

Department of Mechanical & Automobile Engineering

Higher Certificate in Engineering in Agricultural Mechanisation

Bachelor of Engineering in Industrial Automation & Robotic Systems

Bachelor of Engineering in Automation and Control Technology

Higher Certificate in Engineering in Automobile Technology

Bachelor of Engineering (Honours) in Facilities Engineering

Bachelor of Engineering in Mechanical Engineering

Higher Certificate in Engineering in Mechanical Engineering

Master of Engineering

Bachelor of Engineering in Road Transport Technology and Management

Apprentice Programme Fitter

Apprentice Programme Motor Mechanic.

Department of Information Technology

Bachelor of Business (Honours) in Business Management Systems

Bachelor of Business in Business Computing

Bachelor of Business (Honours) in Business Computing

Higher Certificate in Business in Business Computing

Bachelor of Science (Honours) in Computer Networks & Systems Management

Master of Science in Computing (Research)

Master of Engineering in Computer Science

Doctor of Philosophy

Master of Science in Computing in Security & Digital Forensics

Bachelor of Arts in E-Business Administration Systems

Certificate in Enterprise Solutions Development

Bachelor of Science (Honours) in Internet Systems Development

Bachelor of Science in Internet Systems Development

Bachelor of Science (Honours) in Multimedia Programming and Design

Bachelor of Science (Honours) in Software Development.

School of the Built Environment

Master of Art in Built Environment Management

Bachelor of Science (Honours) in Building Surveying

Bachelor of Science (Honours) in Construction Management

Bachelor of Engineering in Civil Engineering

Higher Certificate in Engineering in Civil and Environmental Engineering

Bachelor of Engineering in Civil Engineering

Bachelor of Science (Honours) in Civil Engineering Management

Higher Certificate in Science in Construction

Higher Certificate in Science in Construction Practice

Bachelor of Science in Construction in Health and Safety

Higher Certificate in Arts in Interior Design Technology

Bachelor of Arts in Interior Design and Technology

Higher Certificate in Science in Property Valuation and Management

Bachelor of Science (Honours) in Property Valuation & Management

Bachelor of Science (Honours) in Quantity Surveying

Higher Certificate in Science in Sustainable Building & Renewable Energy

Bachelor of Science in Sustainable Building & Renewable Energies

Bachelor of Science in Construction in Site Management

Apprentice Programme Floor/Wall Tiler

Apprentice Programme Carpenter/Joiner.

LIT Tipperary School

Bachelor of Arts (Honours) in Accounting and Finance

Higher Certificate in Business and Office Technologies

Higher Certificate in Business - Clonmel

Higher Certificate in Business - Thurles

Bachelor of Business - Clonmel

Bachelor of Business - Thurles

Bachelor of Business (Honours) - Thurles

Bachelor of Business (Honours) - Clonmel

Bachelor of Business in Marketing with Languages

Bachelor of Arts (Honours) in Social and Community Studies

Higher Certificate in Science in Computing

Bachelor of Science in Computing

Higher Certificate in Science in Information Technology in Creative Multimedia

Bachelor of Science in Information Technology in Creative Multimedia

Bachelor of Science (Honours) in Information Technology in Creative Multimedia

Higher Certificate in Science in Computer Services

Bachelor of Science in Computer Services Management

Bachelor of Science (Honours) in Computing in Games Design and Development

Bachelor of Science in Computing in Smart Energy Systems

Bachelor of Science (Honours) in Computing in Smart Energy Systems

Bachelor of Science (Honours) in Environmental and Natural Resource Management

Bachelor of Science in Sports Strength and Conditioning

Bachelor of Science (Honours) in Sports Strength and Conditioning

Bachelor of Science (Honours) in Digital Animation Production.

3.3.2 LIST OF FLEXIBLE LEARNING COURSES

SCHOOL OF ART AND DESIGN

Portfolio Preparation
Advanced Portfolio Preparation
Creative Photography
Life Drawing
Design for Hand Knitting
Looking at Contemporary Art
History of Renaissance Art
Introduction to Animation
Introduction to Ceramics: Form and Fire
Artistic 'isms': From Neo-Classicism to Post-Modernism
Tradition to Modernism: Irish Art at the turn of the twentieth century 1880-1943
History of Baroque Art
Art and Audiences
Texture and Creative Sewing
Reduce, Reuse, Recycle - Up-cycling Clothing
Fashion Design Summer Course
Portfolio Preparation Summer Course
Introduction to Animation Summer Course.

SCHOOL OF BUSINESS & HUMANITIES

Department of Business Management

Accounting for Beginners
Mandarin Chinese for Beginners
Certificate in Business Studies
Diploma in Business Studies
Bachelor of Business Studies (Hons)
Certificate in Public Management
Diploma in Public Management
Bachelor of Arts (Public Management)
Master of Business in Marketing & Management Strategy (Level 9)
Higher Certificate in Business in Retail Management.

Department of Humanities

Multi-Element Behaviour Support
Leadership and Advocacy
Communications and Presentation.

SCHOOL OF THE BUILT ENVIRONMENT

Building CAD with Revit Architecture
Construction Project Management
Building Conservation.

SCHOOL OF SCIENCE, ENGINEERING & I.T

Department of Electrical & Electronic Engineering

Introduction to Audio Editing
Electrical Installation Practice
Electrical Systems for Mechanical Personnel
Introduction to Midi Sequencing
Adobe Photoshop CS5 Foundation Level
Adobe Photoshop CS5 Intermediate Level.

Degree in Manufacturing Technology

Semester 1

- Project Management
- Electrical Machines
- Computer Systems
- Programmable Logic Controller Systems (PLCs)
- Industrial Maintenance Systems
- Web Application Development
- HMI and SCADA
- Industrial Project.

Semester 2

- Programmable Logic Controller Systems (PLCs)
- Distributed Electrical Systems
- Computer Networks
- Advanced Programmable Logic Controller Systems (PLCs)
- Energy Efficiency in Industry
- Database Application Development
- Industrial Project.

Degree in Electrical Technology

Semester 1

- Project Management
- Electrical Machines
- Computer Systems
- Programmable Logic Controller Systems (PLCs)
- Industrial Maintenance Systems
- Electrical Planning & Layout
- Electrical Testing & Certification
- HMI and SCADA
- Electrical Project.

Semester 2

- Programmable Logic Controller Systems (PLCs)
- Advanced Programmable Logic Controller Systems (PLCs)
- Distributed Electrical Systems
- Computer Networks
- Energy Efficiency in Industry
- Electrical Testing & Certification
- Electrical Project.

Department of Mechanical & Automobile Engineering

Arc Gas & M.I.G Welding

Plant Hydraulics & Pneumatics

City & Guilds Level 2 – Award in CAD Parametric Modelling (Solidworks)

City & Guilds Level 2 – Award in Computer Aided Design

City & Guilds Level 2 – Award in Computer Aided Manufacturing

Technician Certificate Awards in Mechanical, Electrical & Electronic Engineering Theory

- Option 1 – Technician Certificate in Mechanical Engineering
- Option 2 – Technician Certificate in Electrical & Electronic Engineering
- Option 3 – Technician Certificate in Mechanical, Electrical & Electronic Applications
  Technician Diploma Awards in Mechanical & Electrical Engineering Design & Manufacturing Options
- Option 1 – Technician Diploma Awards in Engineering Theory: Manufacturing Option
- Option 2 – Technician Diploma Awards in Mechanical & Electrical Engineering Theory: Design & Manufacturing Option
  Advanced Technician Diploma Awards in Mechanical Engineering Theory: Manufacturing, Design & Manufacturing Options
- Option 1 – Advanced Diploma in Mechanical Engineering Theory: Manufacturing Option
- Option 2 – Advanced Diploma in Mechanical & Electrical Engineering Theory: Design & Manufacture.

Department of Information Technology

Computers for Beginners (Equalskills) – An ECDL Programme for Complete Beginners

European Computer Driving Licence (ECDL)

Advanced European Computer Driving Licence (ECDL)

Website Design

CISCO Certified Network Associate.

Department of Applied Science

Diploma in Quality Management Part 1 (EIQA)

Diploma in Quality Management Part 2 (EIQA)

Introduction to Occupational Health & Safety (NISO)

Risk Assessment & Safety Statement Course (NISO)

Workplace Noise Assessment (NISO)

Higher Certificate in Science in Occupational Health & Safety

Introduction to Environmental Legislation & Waste Management

Irish Heritage, Ecology and the Garden.

LIT Tipperary

Department of Business, Education & Social Sciences

Certified Accounting Technician (CAT) (ACCA)

Foundations in Accountancy (ACCA)

Formation 2 – Taxation Paper 2 (Certified Public Accountants)

Certificate in Management (Minor Award)

Business (Level 6 Higher Certificate)

Marketing and French (Certificate)

Marketing and German (Certificate)

Certificates in Languages – French, German, Gaeilge

Developing Human Potential

Professional Coaching Skills (Special Purpose Award)

Adlerian Psychology and Counselling (Special Purpose Award)

Jungian Psychology with Art Therapy (Special Purpose Award)

Addiction Counselling (Special Purpose Award).

Department of Technology, Media & Science

Renewable Energy Development

Domestic Sustainable Energy

Geographical Information Systems (GIS)

Diploma in Quality Management Part 1 (EIQA)

Introduction to Occupational Health & Safety (NISO).

3.4 EXTERNAL EXAMINERS

COURSES IN THE SCHOOL OF ART & DESIGN

Bachelor of Arts (Hons) in Fine Art (Painting)
Ms. Anne Ryan
Dr. Brendan Rooney

Bachelor of Arts (Hons) in Fine Art (Printmaking)
Ms. Jo Stockham
Dr. Brendan Rooney

Bachelor of Arts (Hons) in Fine Art (Sculpture & Combined Media)
Ms. Amanda Coogan
Dr. Brendan Rooney

Bachelor of Arts (Hons) in Graphic Design
Ms. Ciara Cantwell
Ms. Mary Ann Bolger

Bachelor of Arts (Hons) in Ceramic Design
Ms. Sharon Blakey
Ms. Mary Ann Bolger

Bachelor of Arts (Hons) in Fashion Design
Ms. Cecilia Langemar
Ms. Mary Ann Bolger

Higher Diploma in Art for Art & Design Teachers
Prof. Glen Coutts
Dr. Maura Cunneen

Master of Arts in Art & Design (Social Practice and the Creative Environment)
Mr. Sean Miller

Master of Arts in Art & Design Education
Mr. Carlos Dekeyrel

Art & Design Year 1 (Main Study – Design)
Mr. Leslie Reed

Art & Design Year 1 (Main Study – Fine Art)
Mr. David Lilburn

Bachelor of Science (Honours) in Digital Animation Production
Dr. David Irwin

Bachelor of Science (Honours) in IT in Creative Multimedia
Dr. David Irwin
Ms. Cindy O'Shea

Bachelor of Science in IT in Creative Multimedia
Dr. David Irwin
Ms. Cindy O'Shea

Higher Certificate in Science in IT in Creative Multimedia
Dr. David Irwin
Ms. Cindy O'Shea

COURSES IN THE SCHOOL OF THE BUILT ENVIRONMENT DEPARTMENT OF THE BUILT ENVIRONMENT CONSTRUCTION & MANAGEMENT

Higher Certificate in Science in Construction
Mr. James Kilduff
Mr. Luke Duffy

Bachelor of Science in Construction in Site Management
Mr. James Kilduff
Mr. Luke Duffy

Bachelor of Science in Construction in Health & Safety
Mr. James Kilduff
Mr. Luke Duffy
Mr. John Kennedy

Higher Certificate in Engineering in Civil Engineering
Dr. Joseph R. Harrington
Mr. Jim McGuire

Bachelor of Engineering in Civil Engineering
Dr. Joseph R. Harrington
Mr. Jim McGuire

Bachelor of Engineering in Civil Engineering (3 Year Programme)
Dr. Joseph R. Harrington
Mr. Jim McGuire

Bachelor of Science in Construction in Site Management (3 Year Programme)
Mr. James Kilduff
Mr. Luke Duffy

Bachelor of Science in Construction in Health & Safety (3 Year Programme)
Mr. John Kennedy
Mr. James Kilduff
Mr. Luke Duffy

Bachelor of Science in Management (Craft)
Mr. Terry Prenderville

Technology Enhance Teaching & Learning (Special Purpose Award)
Dr. Attracta Brennan

Practice & Reflection in Teaching & Learning (Special Purpose Award)
Dr. Ted Fleming

Higher Certificate in Science in Construction Practice
Mr. Terry Prenderville
Mr. Colin McNamara

Bachelor of Arts in Interior Design & Technology
Ms. Katherine Keane
Ms. Edel Moloney

Higher Certificate in Science in Interior Design Technology
Ms. Katherine Keane
Ms. Edel Moloney

DEPARTMENT OF THE BUILT ENVIRONMENT MANAGEMENT

Bachelor of Science (Honours) in Construction Management
Dr. Sam Wamuziri
Mr. Tom Enright

Bachelor of Science (Honours) in Property Valuation & Management
Mr. P.J. Power
Dr. Declan Redmond

Bachelor of Science (Honours) in Quantity Surveying
Ms. Gillian Carey
Mr. Andrew Thompson

Bachelor of Science (Honours) in Civil Engineering Management
Dr. Sam Wamuziri
Mr. Tom Enright

Bachelor of Science (Honours) in Building Surveying
Mr. Anthony Burke
Mr. Patrick McSweeney

Bachelor of Science in Sustainable Building & Renewable Energy
Dr. Keelin Leahy
Thomas O'Flynn

Higher Certificate in Science in Sustainable Building & Renewable Energy
Mr. Thomas O'Flynn
Dr. Keelin Leahy

Higher Certificate in Science in Property Valuation & Management
Mr. P.J. Power
Dr. Leslie Anne Hemphill

COURSES IN THE SCHOOL OF BUSINESS & HUMANITIES

DEPARTMENT OF BUSINESS MANAGEMENT

Higher Certificate in Business in Marketing & Management
Mr. Walaa-Eldeen Bakry
Mr. Gary Reynolds
Ms. Allison Kenneally

Higher Certificate in Business in Marketing & Management - French
Dr. Riana Walsh

Bachelor of Business in Marketing & Management
Mr. Conor Kelleher

Bachelor of Business (Honours) in Marketing & Management
Mr. Cian Quilty
Ms. Allison Kenneally

Bachelor of Business (Hons) in Marketing & Management
(4 Year Programme)
Mr. Walaa-Eldeen Bakry
Mr. Gary Reynolds
Ms. Allison Kenneally
Mr. Cian Quilty
Mr. Conor Kelleher

Bachelor of Business (Hons) in Marketing & Management
(4 Year Programme) – French
Dr. Riana Walsh

Master of Business in Marketing & Management Strategy
Dr. Christine Domegan
Mr. Declan Doyle

Higher Diploma in Business
Ms. Patricia Medcalf

Certificate in Marketing & German (Special Purpose Award)
Ms. Eimear Kelly

DEPARTMENT OF FINANCE & PROFESSIONAL STUDIES

Higher Certificate in Business in Accounting & Finance
Ms. Mary Kelly
Mr. Patrick Fitzgerald
Ms. Allison Kenneally

Bachelor of Business in Accounting & Finance
Mr. Shane Moran
Prof. Shane Kilcommins

Bachelor of Business (Hons) in Accounting & Finance
Mr. John Currie
Ms. Allison Kenneally

Bachelor of Business (Honours) in Law & Taxation
Dr. Thomas McCluskey
Mr. Terence Sheridan
Ms. Allison Kenneally
Prof. Shane Kilcommins
Mr. John Currie
Ms. Una Wodds

Bachelor of Business (Hons) in Accounting & Finance
(4 Year Programme)
Mr. Patrick Fitzgerlad
Mr. John Currie
Ms. Allison Kenneally
Mr. Shane Moran
Ms. Mary Kelly
Prof. Shane Kilcommins

DEPARTMENT OF FINANCE & PROFESSIONAL STUDIES continued

Higher Certificate in Business in Legal Studies & Taxation
Dr. Thomas McCluskey
Mr. Terence Sheridan
Ms. Allison Kenneally
Prof. Shane Kilcommins

Bachelor of Arts (Honours) in Business Studies with Event Management
Mr. Tomas Mangan
Mr. Terence Sheridan
Mr. Declan Doyle
Dr. David Irwin
Mr. Colin Gilligan
Ms. Suzanne Kennedy
Ms. Breda Hickey

Bachelor of Arts (Honours) in Business Studies with Event Management – French
Dr. Riana Walsh

Bachelor of Arts (Honours) in Business with Tourism Management
Mr. Terence Sheridan
Mr. Declan Doyle
Dr. David Irwin
Mr. Colin Gilligan
Ms. Breda Hickey
Mr. Tomas Mangan
Ms. Suzanne Kennedy

Bachelor of Arts (Honours) in Business with Tourism Management – French
Dr. Riana Walsh

Bachelor of Business (Hons) in Business with Sports Management
Mr. Terence Sheridan
Dr. David Irwin
Mr. Declan Doyle
Mr. Tomas Mangan
Ms. Breda Hickey
Mr. Orla Prendergast
Ms. Suzanne Kennedy

Higher Certificate in Arts in Sports Coaching & Development
Ms. Ita O'Connell
Mr. Terence Sheridan
Mr. Declan Doyle

Higher Certificate in Business Studies in Front Office Management
Dr. James Hanrahan
Mr. Terence Sheridan
Mr. Declan Doyle
Mr. Colin Gilligan
Dr. David Irwin

Higher Certificate in Business Studies in Front Office Management - French
Dr. Riana Walsh

DEPARTMENT OF HUMANITIES

Bachelor of Arts (Honours) in Applied Social Studies in Social Care
Mr. Oliver Hegarty
Ms. Roisin Lane
Ms. Fionnuala Hunter
Mr. Joseph F. Tierney
Dr. David Irwin
Mr. Sean McEntee
Mr. Declan Doyle
Ms. Suzanne Kennedy

Higher Certificate in Arts in Hospitality Studies
Mr. Ciaran OhAnnrachain
Mr. T.J. O'Connor

Higher Certificate in Arts in Culinary Arts
Mr. T.J. O'Connor

Master of Arts in Social Care Management
Ms. Sharon Lambley
Mr. Joseph F. Tierney

COURSES IN THE SCHOOL OF SCIENCE, ENGINEERING & IT
DEPARTMENT OF APPLIED SCIENCE

Higher Certificate in Science in Applied Chemistry
Dr. Sandra Lenihan
Mr. John O'Keeffe
Dr. Joanna Mason

Higher Certificate in Science in Environmental & Analytical Science
Dr. James Moran
Dr. Padraic Larkin
Dr. Joanna Mason

Bachelor of Science in Environmental & Chemical Analysis
Dr. James Moran
Dr. Padraic Larkin
Dr. Joanna Mason

Bachelor of Science in Chemical Instrumentation\Analytical Methods
Dr. Sandra Lenihan
Mr. John O'Keeffe

Bachelor of Science (Honours) in Chemical Instrumentation & Analysis
Dr. Sandra Lenihan
Mr. John O'Keeffe

Higher Certificate in Science in Applied Biology
Dr. Siobhan McClean
Ms. Riona Doherty
Dr. Joanna Mason

Bachelor of Science in Applied Biology
Ms. Riona Doherty
Dr. Siobhan McClean
Dr. Joanna Mason

Bachelor of Science (Honours) in Bio-Analysis & Biotechnology
Dr. Siobhan McClean
Dr. Padraic Larkin

Bachelor of Science in Pharmaceutical & Forensic Analysis
Prof. Michael B. Lambert
Dr. Danie McSweeney
Dr. Joanna Mason

Bachelor of Science (Honours) in Pharmaceutical & Forensic Analysis
Prof. Michael B. Lambert
Dr. Danie McSweeney
Dr. Joanna Mason

Bachelor of Science (Honours) in Drug & Medicinal Product Analysis
Dr. Sandra Lenihan
Dr. Joanna Mason
Mr. John O'Keeffe

Master of Science in Analytical Science with Research & Quality Management
Dr. John O'Reilly
Dr. Ciaran McLaughlin

Postgraduate Diploma in Analytical Science with Research & Quality Management (Embedded Award)
Dr. John O'Reilly
Dr. Ciaran McLaughlin

L9 Certificate in Analytical Science Techniques (Embedded Award)
Dr. John O'Reilly
Dr. Ciaran McLaughlin

L9 Certificate in Project Management & Lean Six Sigman
Dr. John O'Reilly
Dr. Ciaran McLaughlin

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

Bachelor of Engineering in Electronic Engineering
Dr. Oliver P. Gough
Ms. Fionnuala Callan

Bachelor of Science (Honours) in Electronic Systems
Mr. Maurice De Courcy
Dr. Michael J. Connelly

Bachelor of Engineering in Automation & Control Technology
Mr. Barry Curry
Dr. Ciaran MacNamee

Higher Certificate in Engineering in Technology in Video & Sound Technology
Mr. Matthew Kelly
Dr. Yvonne Kennedy

Bachelor of Engineering in Video and Sound Technology
Mr. Matthew Kelly
Dr. Yvonne Kennedy

Bachelor of Engineering in Technology in Manufacturing Engineering
Mr. David Williams

Bachelor of Science in Renewable & Electrical Energy Systems
Mr. Chris Gibbons
Dr. Patrick Hartigan

Bachelor of Science in Music Technology & Production
Mr. Enda Grennan
Mr. Philip Manzor

Bachelor of Science (Honours) in Sustainable Energy Management
Mr. Chris Gibbons
Dr. Patrick Hartigan

Bachelor of Science (Honours) in Audio & Video Production
Ms. Rosemary Day
Dr. Gordon Delap

Bachelor of Science (Hons) in Music Production
Ms. Rosemary Day
Dr. Gordon Delap

Bachelor of Engineering in Electrical Technology
Mr. David Williams

Higher Certificate in Engineering in Electrical Installation Practice
Mr. David Williams

Bachelor of Engineering in Industrial Electrical Engineering
Mr. David Williams

DEPARTMENT OF MECHANICAL & AUTOMOBILE ENGINEERING

Higher Certificate in Engineering in Automobile Technology
Mr. Kevin Delaney
Mr. Joseph Power

Higher Certificate in Engineering in Mechanical & Manufacturing Engineering
Mr. Kenneth Corless
Dr. Olivia McDermott

Higher Certificate in Engineering in Agricultural Mechanisation
Mr. James Carroll
Dr. Tony Woodcock

Bachelor of Engineering in Mechanical Engineering
Mr. Kenneth Corless
Dr. Olivia McDermott

Bachelor of Engineering in Road Transport Technology & Management
Mr. Kevin Delaney
Prof. Jim Saker

Bachelor of Engineering in Facilities Engineering
Mr. Keith Vaugh
Mr. Donagh O'Shaughnessy

DEPARTMENT OF INFORMATION TECHNOLOGY

Higher Certificate in Business in Business Computing
Dr. Cornelia Connolly
Dr. Ralf Burbach
Mr. Liam Hourihane

Bachelor of Business in Business Computing
Dr. Cornelia Connolly
Dr. Ralf Burbach
Mr. Liam Hourihane

Bachelor of Business (Honours) in Business Computing
Dr. Cornelia Connolly
Dr. Ralf Burbach
Mr. Liam Hourihane

Higher Certificate in Business in Business Computing /French
Dr. Riana Walsh

Bachelor of Science (Honours) in Software Development
Mr. Paul Powell
Dr. Marian Ventuneac
Mr. Brian Gillespie
Dr. Anthony Keane
Dr. Ralf Burbach
Mr. Liam Hourihane

Bachelor of Science (Honours) in Multimedia Computing with Design
Dr. Brian Nolan
Mr. Trevor Hogan
Dr. Marian Ventuenac
Dr. Anthony Keane
Mr. Nigel McKelvey
Dr. Ralf Burbach
Mr. Liam Hourihane
Mr. Brian Gillespie

Bachelor of Science (Honours) in Computer Networks and Systems Management
Dr. Marian Ventuneac
Dr. Ralf Burbach
Mr. Liam Hourihane
Dr. Cornelia Connolly
Dr. Anthony Keane

Bachelor of Arts in eBusiness Management Systems
Dr. Cornelia Connolly
Mr. Liam Hourihane
Dr. Ralf Burbach

M.Sc. in Computing
Dr. Anthony Keane
Dr. Marian Ventuneac

Bachelor of Business (Honours) in Business Management Systems
Dr. Cornelia Connolly
Dr. Ralf Burbach
Mr. Liam Hourihane

Bachelor of Science in Internet Systems Development
Mr. Paul Powell
Dr. Brian Nolan
Mr. Liam Hourihane
Mr. Nigel McKelvey
Dr. Ralf Burbach

Bachelor of Science (Honours) in Internet Systems Development
Mr. Paul Powell
Dr. Brian Nolan
Dr. Ralf Brubach
Dr. Anthony Keane
Dr. Marian Ventuneac
Mr. Nigel McKelvey

Higher Diploma in Creative Multimedia Programming
Mr. Trevor Hogan
Dr. Brian Nolan

Higher Diploma in Software Development
Mr. Paul Powell
Dr. Brian Nolan

Bachelor of Science (Honours) in Internet Systems Development (Ab-initio Programme)
Mr. Paul Powell
Dr. Anthony Keane
Mr. Nigel McKelvey
Dr. Brian Nolan
Dr. Marian Ventuneac
Mr. Liam Hourihane
Dr. Ralf Burbac

LIT TIPPERARY SCHOOL

Higher Certificate in Business with Office Technologies
Mr. Cathal Kearney
Dr. Martin Quinn
Ms. Catherine Murphy
Ms. Cindy O'Shea

Higher Certificate in Business
Mr. Cathal Kearney
Dr. Martin Quinn
Ms. Catherine Murphy
Ms. Cindy O'Shea

Higher Certificate in Business/ French
Dr. Ruth Harris

Bachelor of Business
Mr. Cathal Kearney
Dr. Martin Quinn
Ms. Catherine Murphy
Ms. Cindy O'Shea

Bachelor of Business / French
Dr. Ruth Harris

Bachelor of Business (Honours)
Mr. Cathal Kearney
Dr. Martin Quinn
Ms. Catherine Murphy
Ms. Cindy O'Shea

Bachelor of Business (Honours) / French
Dr. Ruth Harris

Bachelor of Business in Marketing
Mr. Cathal Kearney
Dr. Martin Quinn
Ms. Catherine Murphy
Ms. Cindy O'Shea

Bachelor of Business in Marketing with Languages
Mr. Cathal Kearney
Dr. Martin Quinn
Ms. Catherine Murphy
Ms. Cindy O'Shea

Bachelor of Arts (Honours) in Accounting & Finance
Dr. Martin Quinn
Ms. Cindy O'Shea
Ms. Catherine Murphy

Bachelor of Science (Honours) in Sports Strength & Conditioning
Mr. Gerry Fitzpatrick
Ms. Cindy O'Shea
Mr. Cathal Kearney
Ms. Catherine Murphy

Bachelor of Science in Sports Strength & Conditioning
Mr. Gerry Fitzpatrick
Ms. Cindy O'Shea
Mr. Cathal Kearney
Ms. Catherine Murphy

Higher Certificate in Science in Computing
Dr. Michael English
Ms. Cindy O'Shea

Bachelor of Science in Computing
Dr. Michael English
Mr. Cathal Kearney
Ms. Cindy O'Shea

Bachelor of Science (Honours) in Computing in Games Design & Development
Dr. Michael English
Mr. Cathal Kearney
Ms. Cindy O'Shea

Bachelor of Science (Honours) in Computing in Software Design & Development
Dr. Michael English

Higher Certificate in Science in Computing in Information Technology Support
Dr. Michael English
Mr. Cathal Kearney
Ms. Cindy O'Shea

Bachelor of Science in Computing in Information Technology Support
Dr. Michael English
Mr. Cathal Kearney
Ms. Cindy O'Shea

Bachelor of Science (Honours) in Computing in Smart Sustainable Energy Technologies
Dr. Michael English
Mr. Cathal Kearney
Ms. Cindy O'Shea

Bachelor of Science in Computing in Smart Sustainable Energy Technologies
Dr. Michael English
Mr. Cathal Kearney
Ms. Cindy O'Shea

Bachelor of Science (Honours) in Environmental & Natural Resource Management
Prof. Richard Moles
Ms. Cindy O'Shea

Bachelor of Arts (Honours) in Social & Community Studies
Dr. Colm O'Doherty

Certificate in Domestic Sustainable Energy (Special Purpose Award)
Mr. Chris Gibbons

Certificate in Renewable Energy Development (Special Purpose Award)
Mr. Chris Gibbons

Certificate in Jungian Psychology with Art Therapy (Special Purpose Award)
Ms. Mary Smail

Certificate in Coaching Skills (Special Purpose Award)
Ms. Mary Lawless

Certificate in Leadership & Management in Education (Special Purpose Award)
Ms. Nuala Harding

Certificate in Adlerian Counselling (Special Purpose Award)
Ms. Mary Fahey

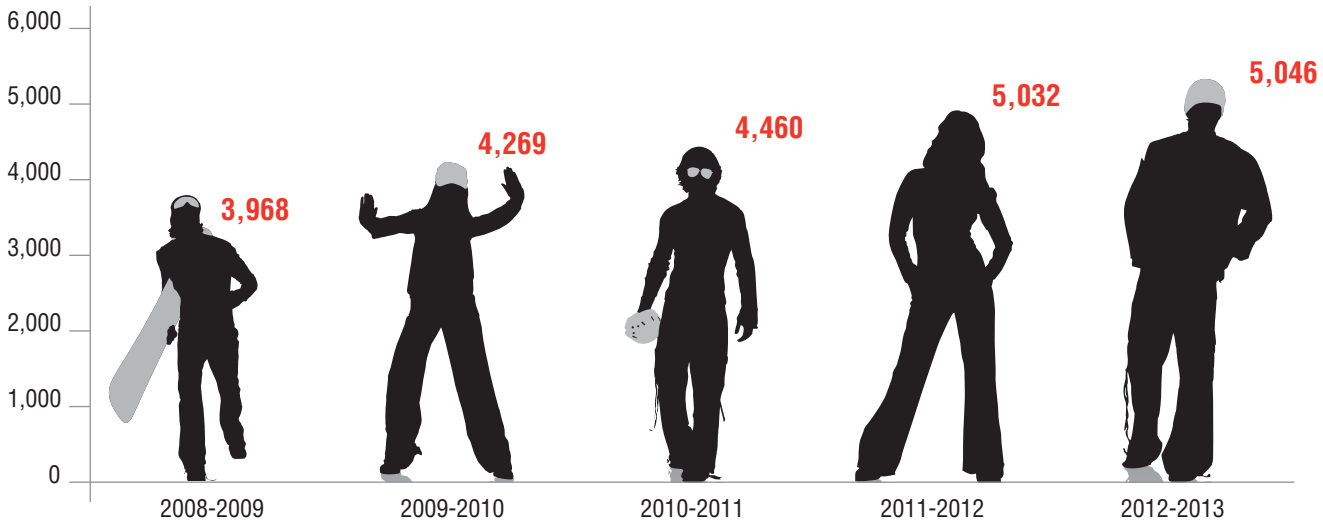
Diploma in Addiction Counselling (Special Purpose Award)
Mr. Johnny Casey

Certificate in GIS (Special Purpose Award)
Prof. Richard Moles

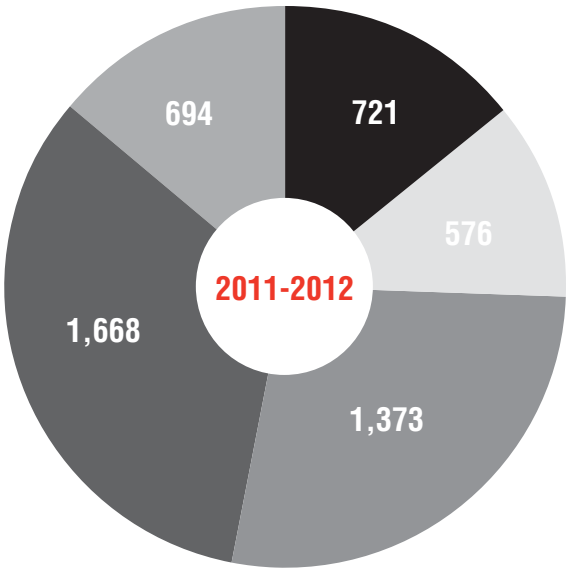
Certificate in Marketing & French (Special Purpose Award)
Dr. Ruth Harris
Mr. Cathal Kearney

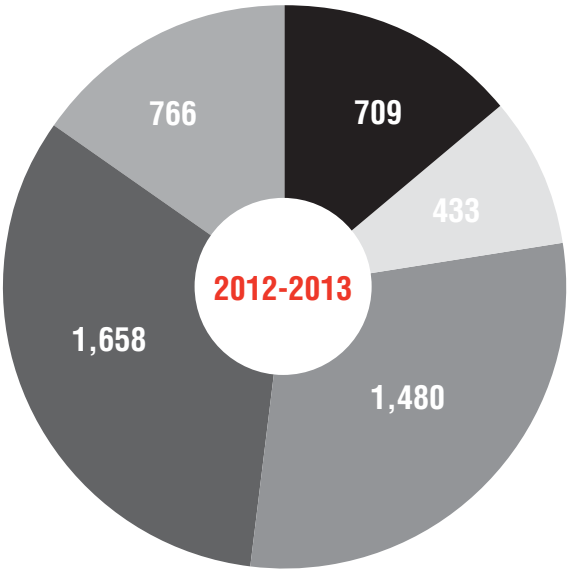
3.5 STUDENT NUMBERS ANALYSIS

3.5.1 STUDENTS REGISTERED ON FULL-TIME THIRD LEVEL COURSES BY YEAR: 5 YEAR TREND



STUDENTS REGISTERED ON FULL-TIME THIRD LEVEL COURSES BY YEAR: PROGRESSION OF GROWTH OVER 2 YEARS





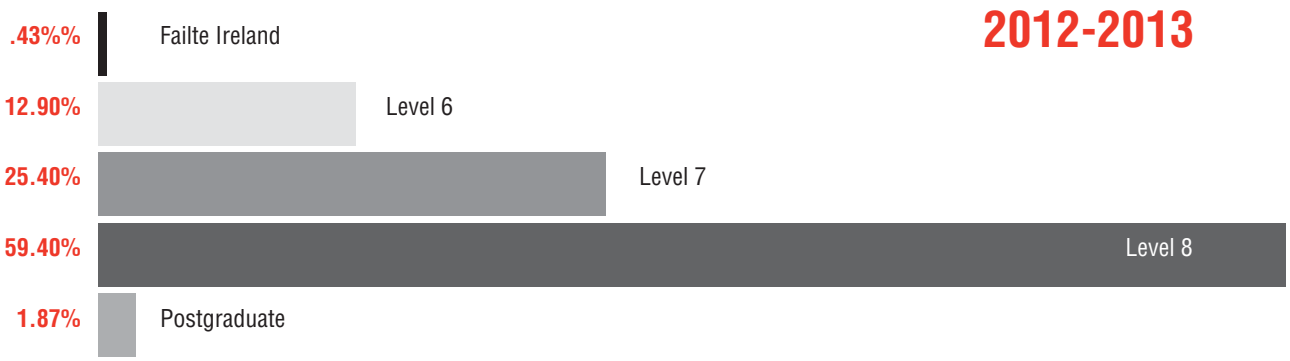
2011-2012

School of Art and Design	721
School of the Built Environment	576
School of Business and Humanities	1,373
School of Science Engineering and IT	1,668
LIT Tipperary School	694

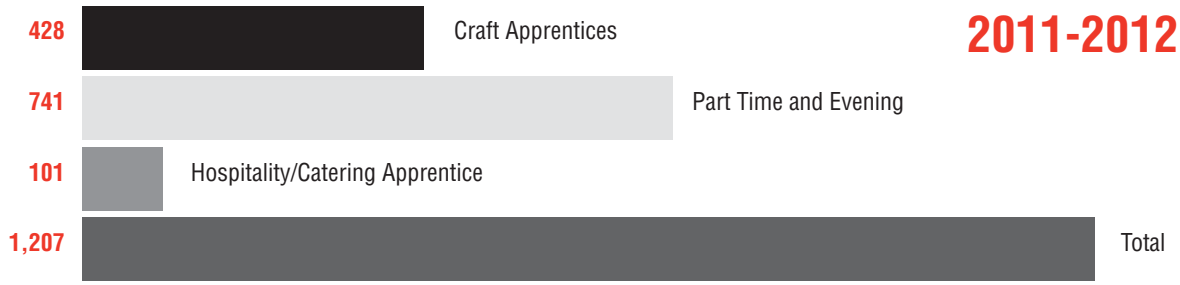
2012-2013

School of Art and Design	709
School of the Built Environment	433
School of Business and Humanities	1,480
School of Science Engineering and IT	1,658
LIT Tipperary School	766

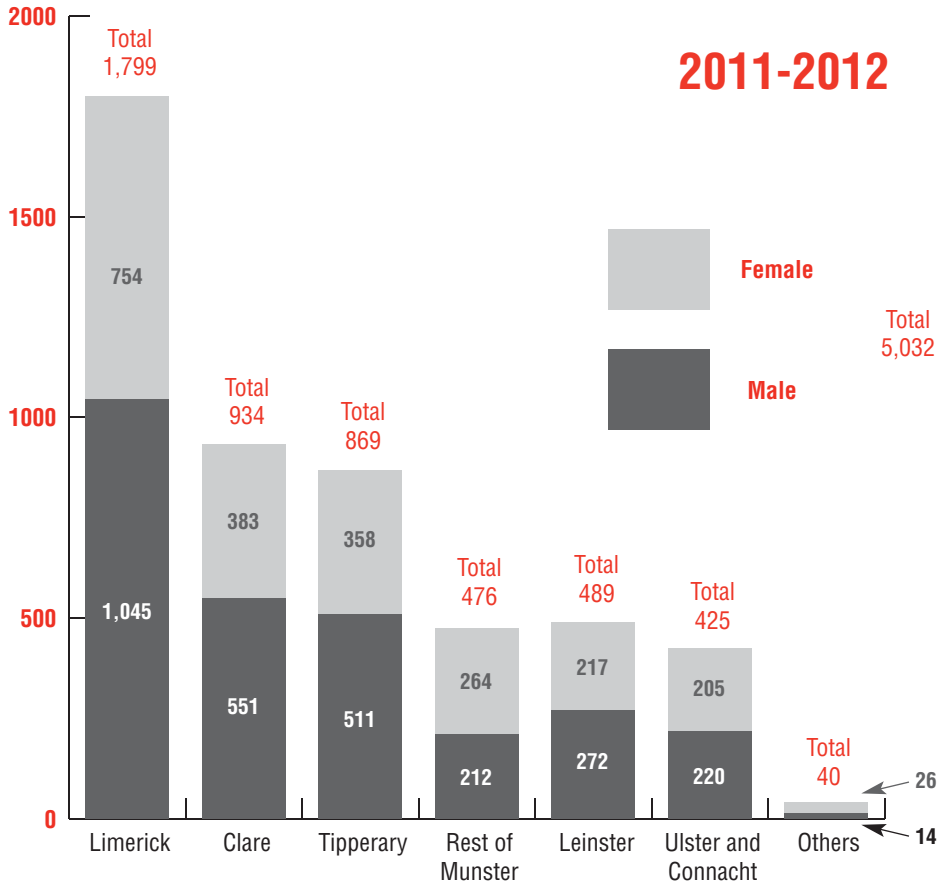
3.5.2 WHOLE-TIME EQUIVALENT STUDENTS REGISTERED ON ALL COURSES BY YEAR AND BY QUALIFICATION TYPE OVER 2 YEARS

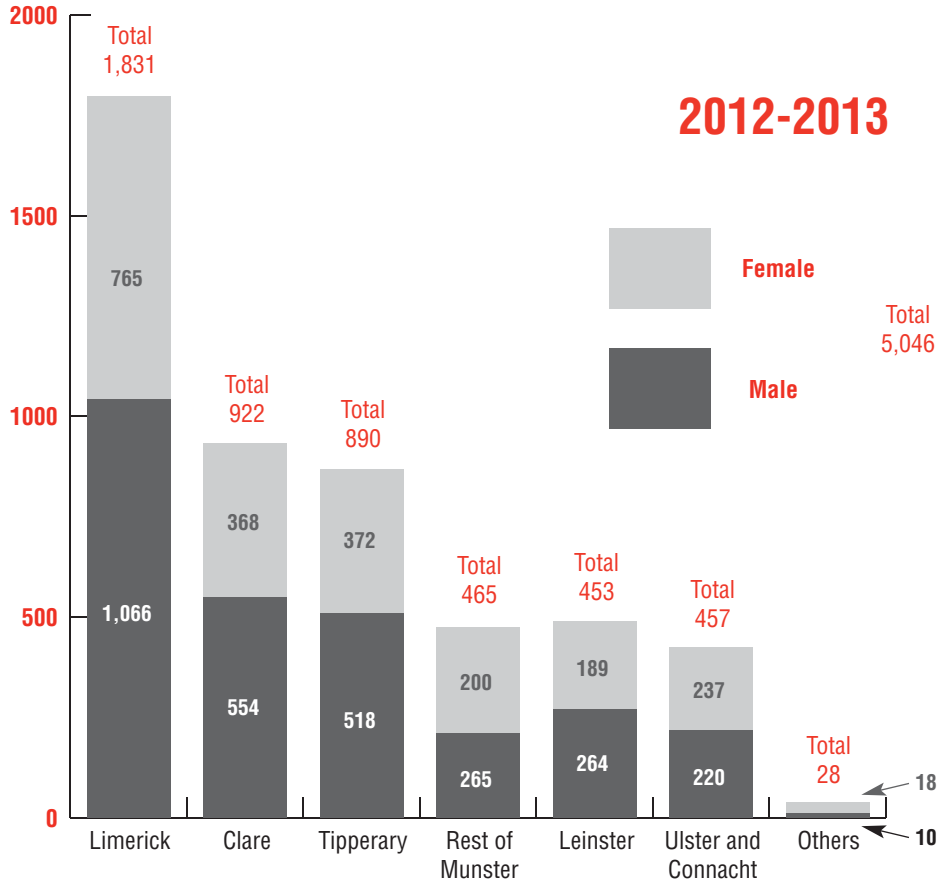


3.5.3 STUDENTS REGISTERED ON PART-TIME COURSES / FULL-TIME CRAFT APPRENTICES BY YEAR

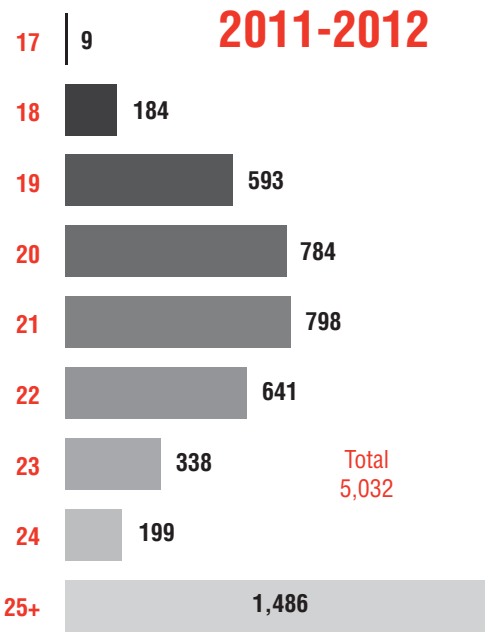


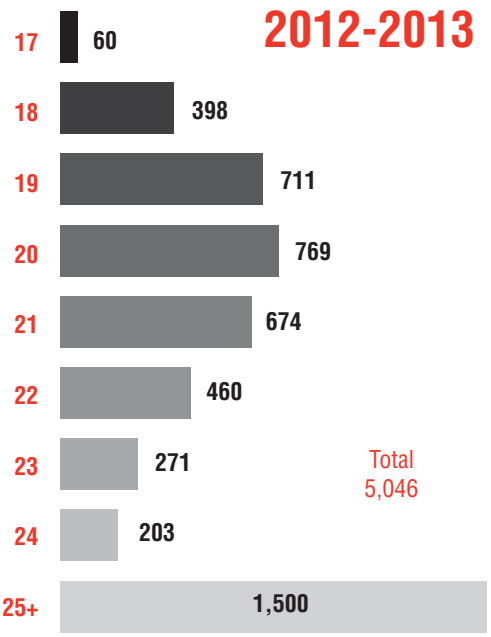
3.5.4 DOMICILIARY ORIGIN AND GENDER OF FULL-TIME STUDENTS



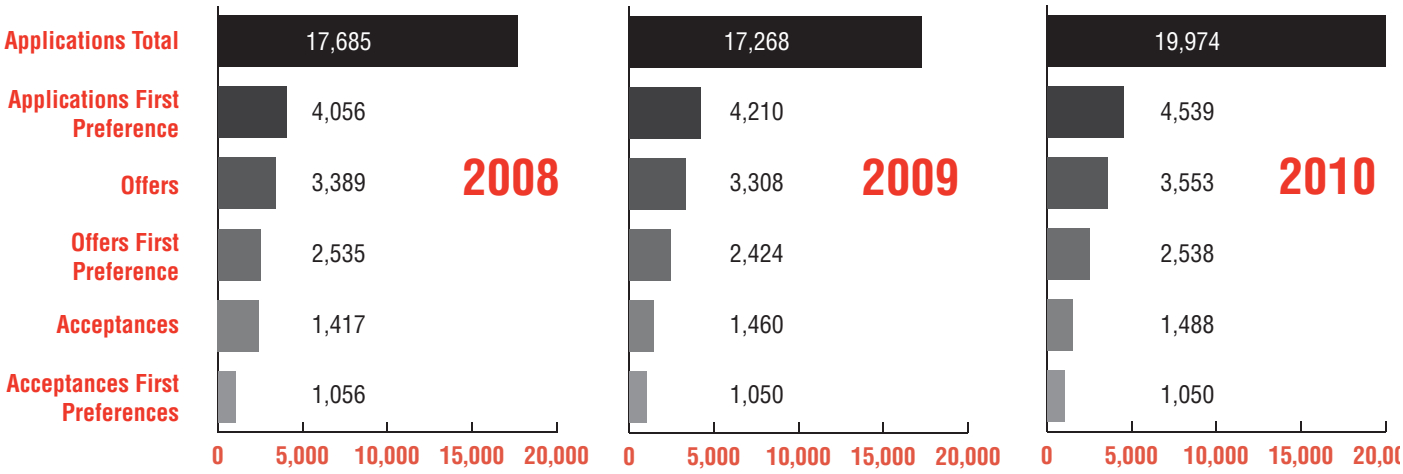


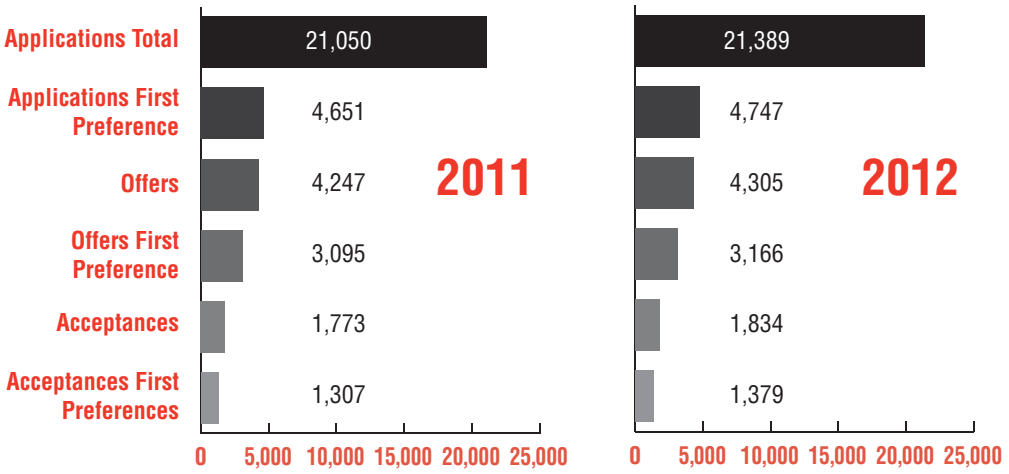
3.5.5 AGE PROFILE OF FULL-TIME STUDENTS





3.5.6 APPLICATIONS, OFFERS, ACCEPTANCES & REGISTRATION: FULL TIME THIRD LEVEL

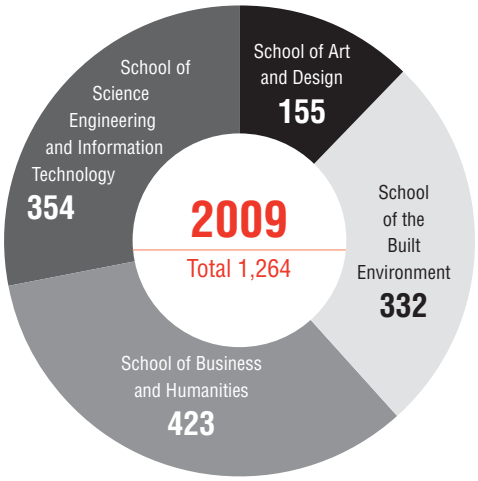


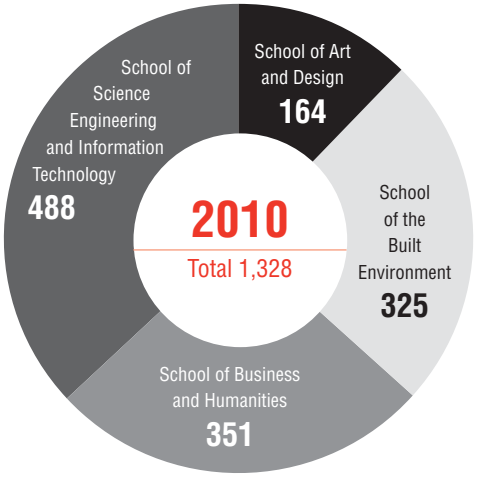


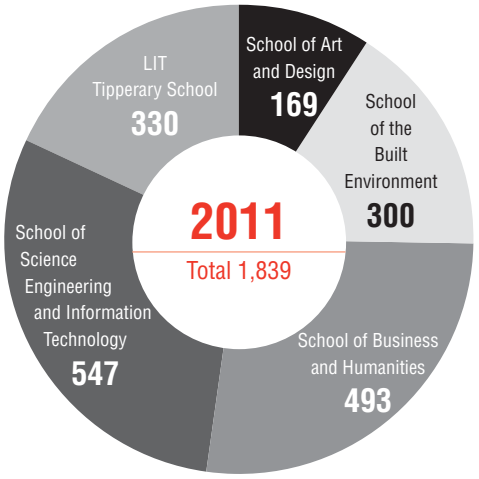
Registration	
2008	1,392
2009	1,440
2010	1,289
2011	1,635
2012	1,570

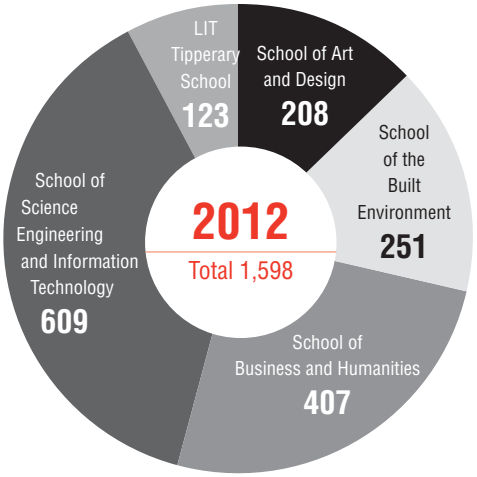
3.5.7 GRADUATES

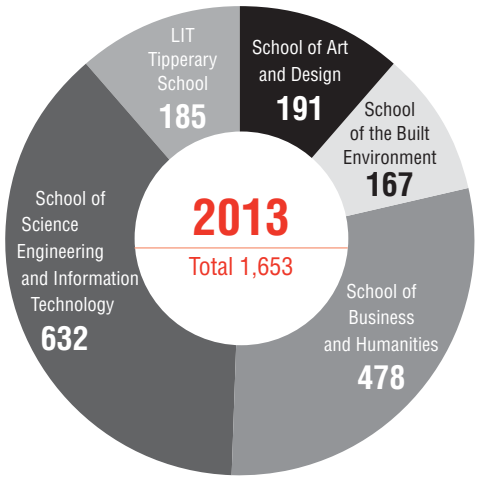
(Note these figures include only LIT, HETAC and FETAC awards)



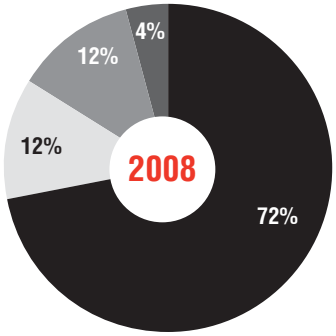




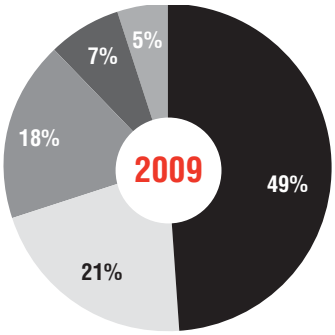




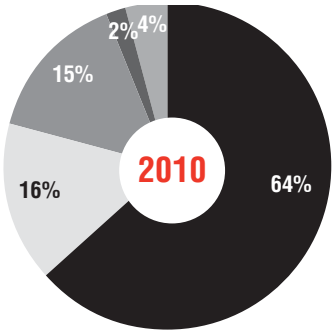
3.5.8 FIRST DESTINATION OF GRADUATES



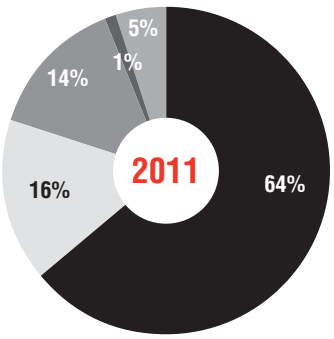
2008	
In Employment	72%
In Further Study or Training	12%
Seeking Employment	12%
Not Available	4%



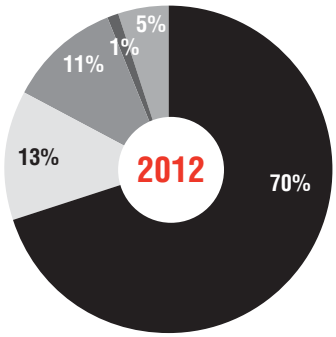
2009	
In Employment	49%
In Further Study or Training	21%
Seeking Employment	18%
Not available for Employment or Study	7%
Unpaid/Employment/ Volunteering	5%



2010	
In Employment	64%
In Further Study or Training	16%
Seeking Employment	15%
Not available for Employment or Study	2%
Unpaid/Employment/ Volunteering	4 %



2011	
In Employment	64%
In Further Study or Training	16%
Seeking Employment	14%
Not available for Employment or Study	1%
Unpaid/Employment/ Volunteering	5%



2012	
In Employment	70%
In Further Study or Training	13%
Seeking Employment	11%
Not available for Employment or Study	1%
Unpaid/Employment/ Volunteering	5%

3.6 SPECIAL MERIT AWARDS

SCHOOL OF THE BUILT ENVIRONMENT

THE ALLIED IRISH BANKS AWARD
For excellence on the Higher Certificate in Construction
Awarded to: Thomas Ryan
Details of Award: Allied Irish Banks Perpetual Trophy and Bank Draft

THE C.I.O.B. AWARD
For excellence in the Final Year Project on the B.Sc. in Construction in Site Management
Awarded to: James McNamara
Details of Award: Medallion and Certificate of Excellence

THE P. J. HEGARTY & SONS AWARD
For excellence on the B. Sc. in Construction in Health & Safety
Awarded to: Sean Carroll
Details of Award: Commemorative Silver Medal and Gift Cheque

THE ROADSTONE WOOD GROUP AWARD
For excellence on the Higher Certificate in Engineering in Civil and Environmental Engineering
Awarded to: Gary Cosgrove
Details of Award: Roadstone Perpetual Cup and Gift Cheque

THE PUNCH CONSULTING ENGINEERS AWARD
For excellence on the B. Eng. in Civil Engineering
Awarded to: Paul Seward
Details of Award: Gift Cheque

THE AIDAN FEENEY PERPETUAL AWARD
For excellence in the subject "Highways"
on the B. Eng. in Civil Engineering
Awarded to: Emmet Feerick
Details of Award: The Aidan Feeney Perpetual Trophy

THE C.I.O.B AWARD
For excellence on the B.Sc. (Hons.) in Civil Engineering Management
Awarded to: Adrian Flanagan
Details of Award: Medallion and Certificate of Excellence

THE C.I.O.B AWARD
For excellence in the Dissertation on the Final Year of the B.Sc. (Hons.) in Civil Engineering Management
Awarded to: Stephen Browne
Details of Award: Medallion and Certificate of Excellence

The AECOM AWARD
For excellence on the Final Year of the B.Sc. (Hons.)
in Quantity Surveying
Awarded to: Anthony Gilligan
Details of Award: Gift Cheque

THE BRUCE SHAW PARTNERSHIP AWARD
For excellence in the Dissertation in the Final Year of the B.Sc. (Hons.) in Quantity Surveying
Awarded to: Brian O'Hanlon
Details of Award: Engraved Crystal Plate

THE SOCIETY OF CHARTERED SURVEYORS IRELAND (SCSI) AWARD
(sponsored by The Irish Examiner)
For excellence on the Final Year of the B.Sc. (Hons.) in Property Valuation and Management
Awarded to: Evelyn Brereton
Details of Award: Gift Cheque

THE CONSTRUCTION INDUSTRY FEDERATION (CIF) AWARD
For excellence on the Final Year of the B.Sc. (Hons.) in Construction Management
Awarded to: Adrian Lynch
Details of Award: Commemorative Silver medal

THE C.I.O.B. AWARD
For excellence in the Dissertation on the Final Year of the B.Sc. (Hons.) in Construction Management
Awarded to: Gregory Irwin
Details of Award: Medallion and Certificate of Excellence

DEPARTMENT OF MECHANICAL AND AUTOMOBILE ENGINEERING

THE VOLKSWAGON GROUP IRELAND AWARD
For excellence on the Higher Certificate in Engineering in Automobile Technology
Awarded to: Jeffery Fenlon
Detail of Award: Plaque

THE FARM TRACTOR MACHINERY TRADE ASSOCIATION AWARD
For excellence on the Higher Certificate in Engineering
in Agricultural Mechanisation
Awarded to: Andrew Kelly
Detail of Award: Plaque & Cheque

KOSTAL IRELAND AWARD
For excellence on the Bachelor of Engineering in Mechanical Engineering
Awarded to: Edward Meade
Detail of Award: Trophy & Cheque

MTECH AWARD
For excellence on the Bachelor of Engineering (Hons) in Facilities Engineering
Awarded to: Peter Garvey
Detail of Award: Voucher

STL LOGISTICS AWARD
For excellence on the Bachelor of Engineering in Road Transport Technology & Management
Awarded to: Conan McCormack
Detail of Award: Glassware

DEPARTMENT OF BUSINESS MANAGEMENT
DEPARTMENT OF FINANCE AND PROFESSIONAL STUDIES

ALLIED IRISH BANKS AWARD
For excellence on the Higher Certificate in Business in Accounting & Finance
Awarded to: Melissa Moroney
Details of Award: Perpetual Trophy & Cheque

CHARTERED INSTITUTE OF MANAGEMENT ACCOUNTANTS IRELAND AWARD
For excellence in Management Accounting on the Higher Certificate in Business in Accounting & Finance
Awarded to: Aine Corbett
Details of Award: Cheque

CHARTERED ACCOUNTANTS IRELAND MID-WEST SOCIETY
For excellence in Financial Accounting on the Bachelor of Business in Accounting & Finance
Awarded to: Hoi Yin Chan
Details of Award: Cheque

ERNST & YOUNG, CHARTERED ACCOUNTANTS AWARD
For excellence on the Bachelor of Business in Accounting & Finance
Awarded to: Ciara Aherne
Details of Award: Cheque

COLLECTOR GENERAL/ REVENUE COMMISSIONERS AWARD
For excellence in Tax and Law on the Bachelor of Business (Hons) in Accounting & Finance
Awarded to: Louise Gavin
Details of Award: Silver Medal and Cheque

CHARTERED INSTITUTE OF MANAGEMENT ACCOUNTANTS IRELAND AWARD
For excellence in Financial Management on the Bachelor of Business (Hons) in Accounting & Finance
Awarded to: Louise Gavin
Details of Award: Tipperary Crystal & Cheque

THE INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS IN IRELAND AWARD
For excellence on the Bachelor of Business (Hons) in Accounting & Finance
Awarded to: Louise Gavin
Details of Award: Cheque

BDO AWARD
For excellence on the Bachelor of Business (Hons) in Law & Taxation
Awarded to: Alisha Toomey
Details of Award: Cheque

SOUTHERN- MARKETING, DESIGN & MEDIA AWARD
For excellence on the Bachelor of Business (Hons) in Marketing & Management
Awarded to: Rachael O'Malley
Details of Award: Cheque

GREAT LIMERICK RUN AWARD
For excellence on the Master of Business in Marketing & Management Strategy
Awarded to: Paul McMahon
Details of Award: Cheque

SHANNON HERITAGE AWARD
For excellence on the Bachelor of Arts (Hons) in Business Studies with Tourism Management
Awarded to: Dawn Angley
Details of Award: Medal

MUNSTER RUGBY AWARD
For excellence on the Bachelor of Arts (Hons) in Business Studies with Sports Management
Awarded to: Gordon Britchfield
Details of Award: Pro 12 season ticket

THE SAVOY HOTEL AWARD
For excellence on the Higher Certificate in Business Studies in Hotel Front Office Management
Awarded to: Joan Walsh
Details of Award: Glass

DEPARTMENT OF HUMANITIES

BROTHERS OF CHARITY SERVICES LIMERICK
For overall excellence on the Bachelor of Arts (Hons) in Applied Social Studies in Social Care
Awarded to: Michelle O'Connor
Details of Award: Medal

SCI AWARD
For academic excellence on the Bachelor of Arts (Hons) in Applied Social Studies in Social Care
Awarded to: Maeve O'Doherty
Details of Award: Glass

FÁILTE IRELAND AWARD
For excellence on the Higher Certificate in Arts in Culinary Arts
Awarded to: Sean Mullins
Details of Award: Cheque

FÁILTE IRELAND AWARD
For excellence on the Higher Certificate in Arts in Hospitality Studies
Awarded to: Ms Danielle Farrell
Details of Award: Cheque

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

KIRBY GROUP ENGINEERING LTD. AWARD
For excellence on the Bachelor of Engineering in Engineering in Electronic Engineering
Awarded to: Kirils Maslovs
Details of Award: Cheque

DEMESNE AWARD
For excellence on the Bachelor of Science (Honours) in Electronic Systems
Awarded to: Patrick Byrne
Details of Award: Cheque

ALLIED IRISH BANKS GREEN INITIATIVE AWARD
For excellence on the Bachelor of Science in Renewable and Electrical Energy Systems
Awarded to: Christopher Dixon-O'Mara
Details of Award: Cheque

ANALOG DEVICES B.V. AWARD
For excellence on the Bachelor of Science (Honours) in Sustainable Electrical Power Systems
Awarded to: Vladislav Miklusicak
Details of Award: Cheque

ANALOG DEVICES B.V. AWARD
For excellence on the Bachelor of Engineering in Automation and Control Technology
Awarded to: James Reidy
Owen McGrath
Details of Award: Cheque

O'MAHONY'S BOOKSELLERS AWARD
For excellence on the Bachelor of Engineering in Technology in Video and Sound Technology
Awarded to: Abdelilah Wadih
Details of Award: Cheque and Book Voucher Valued €100 each

O'MAHONY'S BOOKSELLERS AWARD
For excellence on the Bachelor of Science (Honours) in Audio and Video Production
Awarded to: Brian Ruane
Details of Award: Cheque and Book Voucher valued €100 each

SPIN SOUTH WEST AWARD
For excellence on the Bachelor of Science in Music Technology and Production
Awarded to: Lorraine Devaney
Details of Award: Bank transfer

RTÉ LYRIC FM
For excellence on the Bachelor of Science (Honours) in Music Production
Awarded to: Roland Kelly
Details of Award: Cheque valued

LIMERICK SCHOOL OF ART & DESIGN DEPARTMENT OF FINE ART DEPARTMENT OF DESIGN LSAD CLONMEL

THE REVENUE COMMISSIONERS AWARD PURCHASE PRIZE AWARD
For overall excellence shown during the B.A. (Hons) Degree in Fine Art (Painting).
Awarded to: Assumpta Wallace
Details of Award: Cheque

THE REVENUE COMMISSIONERS AWARD
Presented for excellence shown during the B.A. (Hons) Degree in Fine Art (Painting) - (2 awards).
Awarded to: Gillian Stack and John Lee
Details of Award: Each receiving a cheque

THE REVENUE COMMISSIONERS AWARD
Presented for excellence shown during the B.A. (Hons) Degree in Fine Art (Painting) - (1 award).
Awarded to: Kiva Stanley
Details of Award: Cheque

LIMERICK PRINTMAKERS AWARD
For excellence shown on the B.A. (Hons) in Fine Art (Printmaking) – (2 Awards)
Awarded to: Eoin Barry and Isabella Walsh

CORK PRINTMAKERS RESIDENCY AWARDS
For excellence shown on the B.A. (Hons) in Fine Art (Printmaking) – (2 awards).
Awarded to: Emer Hickey and Jessica Cody

FABER STUDIOS AWARD
For excellence shown on the B.A. (Hons) in Fine Art (Sculpture & Combined Media) – (2 awards).

FABER STUDIOS O'RIORDAN AWARD
Awarded to: Padraig O'Hora

FABER STUDIOS PROJECT AWARD
Awarded to: Thomas Lyons

THE NATIONAL SCULPTURE FACTORY ARTISTRESIDENCY GRADUATE AWARD
Awarded to: Thomas Lyons

TOM FOX EXHIBITION AWARD
Awarded to: Patricia Gormley Taylor

AIB CERAMIC DESIGN AWARD
For excellence shown on the B.A. (Honours) Degree in Design (Ceramics)
Awarded to: Karen Hendy
Details of Award: Cheque

DEPARTMENT OF INFORMATION TECHNOLOGY

MICROSOFT AWARD
For excellence on the Bachelor of Business (Honours)
in Business Computing
Awarded to: Linda Naughton
Detail of Award: Nokia Lumia Phone

IRISH COMPUTER SOCIETY AWARD
For excellence on the Bachelor of Business (Honours) in Business Management Systems
Awarded to: Sarah Nash
Detail of Award: Cheque

FITZPATRICK COMPUTER GROUP AWARD
For excellence on the Bachelor of Science (Honours) in Multimedia Programming and Design
Awarded to: David Donnellan
Detail of Award: Digital Camera

ERICSSONS AWARD
For excellence on the Bachelor of Science (Honours) in Software Development
Awarded to: Shilao Zhu
Detail of Award: Voucher, Certificate, & Laptop Bag

DELL AWARD
For excellence on the Bachelor of Science (Honours) in Computer Networks & Systems Management
Awarded to: Roy Dunican
Detail of Award: Cheque

O2 AWARD
For excellence on the Bachelor of Science (Hons) in Internet Systems Development
Awarded to: James Hourigan
Detail of Award: Nokia 620 Smartphone

COMMNET AWARD
For excellence on the Master of Science in Computing, Security & Digital Forensics
Awarded to: Maurice Kelly
Detail of Award: Cheque

SOURCEDOGG AWARD
For Excellence on the Higher Diploma in Computing
in Creative Multimedia Programming
Awarded to: Kieran Donnellan
Detail of Award: Amazon Voucher

SAP IRELAND AWARD
For Excellence on the Higher Diploma in Computing
in Software Development
Awarded to: James McNamara
Detail of Award: iPad

DEPARTMENT OF APPLIED SCIENCE

LENNOX LABORATORIES AWARD
For excellence on the Bachelor of Science in Chemical Instrumentation/Analytical Methods
Awarded to: Vamadou Bamba
Details of Award: Lennox Certificate and Cheque

THE THOMAS CARROLL PERPETUAL AWARD
For excellence on the Bachelor of Science (Honours) in Chemical Instrumentation & Analysis
Awarded to: Clare Moffat
Details of Award: Perpetual Trophy and Cheque

SEROSEP LIMITED AWARD
For excellence on the Bachelor of Science in Environmental and Analytical Science
Awarded to: Marcus Nash
Details of Award: Cheque

BECKMAN COULTER BIOMEDICAL IRELAND AWARD
For excellence on the Bachelor of Science in Applied Biology -
Awarded to: Michael Hayes
Details of Award: Cheque

KERRY GROUP AWARD
For excellence on the Bachelor of Science (Honours)
in Bio-analysis and Bio-technology
Awarded to: Norma Browne
Details of Award: Cheque or bank transfer

AQUILANT ANALYTICAL SERVICES AWARD
For excellence on the Bachelor of Science (Honours) in Pharmaceutical & Forensic Analysis
Awarded to: Carmel Matthews
Details of Award: Cheque

ALLIED IRISH BANKS AWARD – Joint Award
For excellence on the Bachelor of Science (Honours) in Drug and Medicinal Product Analysis
Awarded to: Michelle Flanagan
Ranju Thapa
Details of Award: Cheque

B.H.P. LABORATORIES AWARD
For excellence on the Master of Science in Analytical Science with Research and Quality Management
Awarded to: Pat Doherty
Details of Award: Cheque

ROCHE IRELAND LIMITED AWARD
For overall outstanding excellence in Science -
Awarded to: Robert Anslow

LIT STUDENT OF THE YEAR PRESIDENTS AWARD
Awarded to: Robert Anslow
Details of Award: Pen and Cheque

DONAL CROSSE AWARD
For Best Performance at a Personal Development First Year Module
Awarded to: Matthew Joy

TIPPERARY REGIONAL YOUTH SERVICE AWARD
For an outstanding piece of work in the area of Youth Work
Awarded to: Sean Murphy

SOUTH TIPPERARY LOCAL COMMUNITY DEVELOPMENT PROGRAMME AWARD
For a student, who over the course of their study, has demonstrated personal skills and commitment to Social Inclusion
Awarded to: Sandra Lakaciauskaite

AIB STUDENT OF THE YEAR AWARD
Awarded to: Louise Haughney

3.7 STUDENT SERVICES

(A) TEACHING & LEARNING CENTRE - LEARNING SUPPORT UNIT (LSU)

LIT Learning Support is a distinctive feature of the active learning pedagogical model that is used in LIT. LSU Active Learning provides a student-led service to actively respond to the needs of our students. The Learning Support Unit provides subject specific support for students across the five campuses of LIT.

In 2012/2013, 1014 students registered for learning support in the Learning Support Unit. 971 full-time students and 43 Apprentice students attended the LSU. 4120 hours of learning support were delivered by 74 tutors across all campuses.

In addition to the LSU budget, funding of €10,000 was received from the Student Assistance fund for support to 192 students with educational difficulty.

A key success of the Learning Support Unit is Peer Assisted Learning. Here the first year students get tuition from final year students or post-graduate students. This works well as students relate positively to their peers.

The LSU supported Mature Student Induction by providing support workshops in Mathematics, Academic Writing and IT Skills. Workshops were also provided to mature and mainstream students throughout the academic year, covering Study Skills, Exam Techniques, IT Skills, TurnItIn (Plagiarism Software), Academic English, Electronics, Science and Maths. The workshops were well attended and the feedback from the students was very positive.

A Survey Monkey request for feedback on LSU services was sent to all LSU students and tutors at the end of the academic year 2012/2013. The feedback from learners and tutors was very positive. Students were appreciative of the help they received and many students felt the service was essential to the successful completion of their studies. An ongoing priority for the LSU is to retain experienced, successful tutors and to extend the pool of tutors available to provide tuition. Students and tutors confirmed that the services provided were meeting students' needs.

There is ample evidence that the students who receive learning support outperform the general student population performance averages.

957 (98.5%) of the mainstream students who received learning support, achieved better than an outright fail. 183 (19%) students received a quality award.

599 (62%) students received an overall pass or better in their exams.

(B) CHAPLAINCY

LIT welcomes students of all religions and of none. The Institute has two chaplains who are based in Limerick and Thurles. 2012-2013 was a busy year involving many activities such as:

- Prayer/Memorial services
- Representing the Institute at funerals
- Hospital visits
- The Intentions book
- Presenting chaplaincy during the Induction process for new students
- Chairman of the Student Emergency Fund
- Member of the LIT Charity Committee
- Fee Waiver applications processing
- Involvement in various LIT activities
- Available to students and staff as required.

The review in May 2012 of the Fee Waiver assistance for students, has led to a very large increase in the number of students applying for financial assistance in 2012-13. This has enabled many students who were facing serious financial difficulty to continue with their studies. There was also

a very large increase in the number of applicants for the Emergency fund. The reasons for this are due to the problems students were facing with the new SUSI system, as well as the general financial downturn in the economy. The large increase in volume of applicants has led to an increase in the amount of time needed to deal with these issues. Students greatly appreciate this assistance that LIT provides.

The daily mass time being moved to 1.00pm, has led to an increase in the number of people who attend. It is a more flexible time than in the morning for people to attend. The Chaplain also organised mass for the dead which was celebrated on a weekly basis during the month of November. There were also numerous requests throughout the year for various mass intentions. There were also special liturgies during the season of Advent and Lent and where there was a bereavement connected to LIT.

Other events organised by the Chaplaincy included:

- Various events that the LIT Charity Committee were involved in such as, the LIT Christmas Charity Dinner. Instead of the LIT Charity Walk at Easter the Great Limerick Run fundraiser for Millford Hospice was organised.The Chaplain also assisted with the promotion of fundraisers for several charities throughout the year.
- The chaplain helped organise the LIT Volunteering day. He also assisted with providing various volunteering opportunities at a local, national and international level.
- The LIT Song Contest was discontinued by the IT chaplains at a national level. Instead of this the LIT Music Festival took place.
- A visit by Moyross Monks was also organised.

The essential work of the chaplain is being available to students and staff and their families in good times and difficult times. It is a service not easily measured, as much of the work that takes place under the radar, yet it must not be undervalued. For our students it's being present with them in their journey of life as a support in the difficult and challenging world. Ultimately our goal is to help them appreciate the joy, wonder and beauty of their lives and their dignity in the world.

(C) NURSING/ MEDICAL

"To provide a confidential and caring health service through Health Promotion and Healthy Lifestyle Awareness and to respond to the needs and concerns of our students."

Functions, activities and responsibilities of the Student Health Unit.

- Provides first aid and emergency medical treatment for sudden illnesses and accidents on the LIT campus, where the nurse is available.
- Offers advice and support to students with specific health needs once the student contacts the Unit.
- Promotes health of mind and body through education, literature and seminars.
- Make referrals to other professional services, (Internally/ externally), where the interest of the student requires it.
- Keep all records private and confidential for all students who make contact with the Health Unit.
- Vaccinations.
- Bereavement support.
- Health Education:
  - At individual and group level, for all campuses
  - Health Promotion Days held in all campuses
  - In the production and distribution of Health Promotion leaflets
  - For ongoing research into relevant Health Promotion Topics.
- Health and Safety
- Promoting the service available through:
  - Participation in student Induction programme for First Year undergraduates
  - Interaction and induction of new staff
  - Participation in student Induction programme for Postgraduates students
- Provide assistance at graduation and exam time when required
- Attendance at meetings
- Setting objectives and target planning.

Health Promotion

Health Promotion Days took place in all of the campuses in 2012-2013 and these proved to be extremely well-attended. A very rewarding feedback was received by the Institute Nurse and the accompanying Student Support Service team members in attendance. This year a "Drinks Aware" stand was held in all campuses and the provision of this stand had two functions:

1) It provided a forum for interaction with the students by making them aware of the effect of their drinking habits, on their daily living.
2) It gave the staff the chance to continue induction on a one to one basis.

The following stands were in also attendance for the Health Promotion Days:

The Mid-West Dietetics Centre Stand

Due to the success and huge popularity of this stand in the previous two years for Health Promotion Day, this service again provided Body Mass Index measurement and reinforced healthy eating habits and distributed dietary advice information in all campuses.

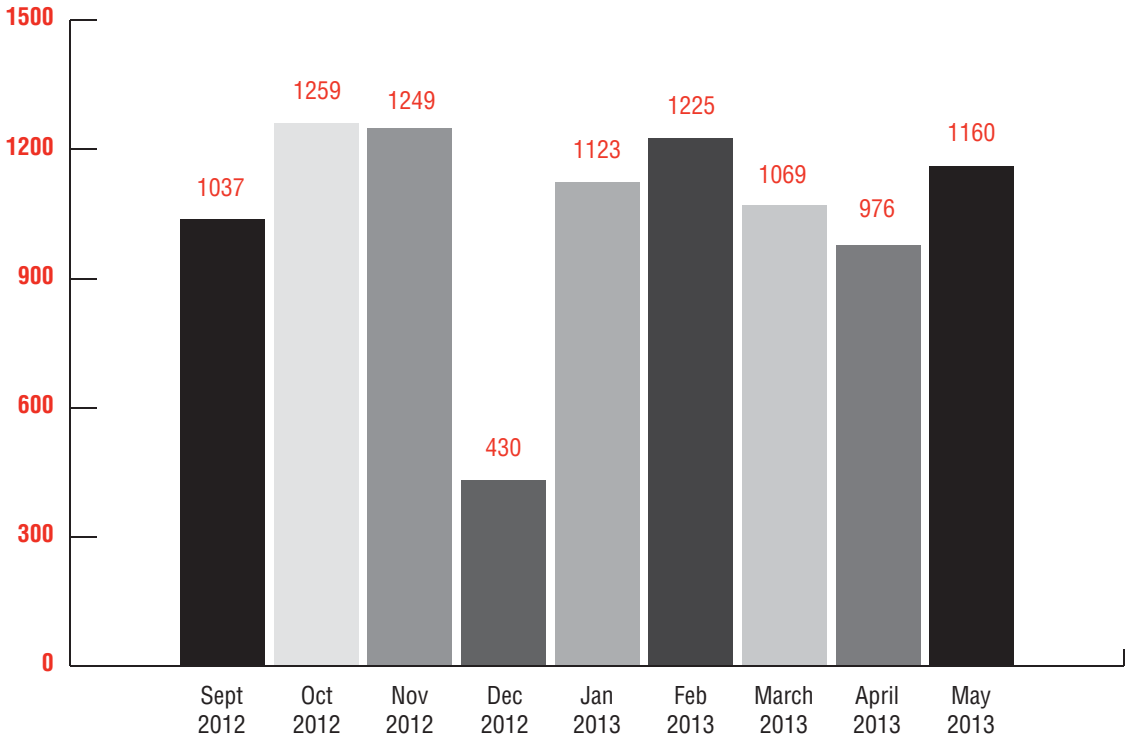
The Promotion of Healthy Eating / Exam foods Stands

A selection of fruit, yogurts and smoothies were given out free of charge to the students to promote healthy eating, in the Moylish and Clare St. campuses, on a trial basis. Due to the phenomenal success of these events, it is proposed to roll out this Health Eating promotion Day also in the Thurles and Clonmel campuses in 2013-2014.

The Health Unit and Administration members of the Student Support Team provided cover at the tables for Health Promotion Day. This proved to be extremely busy, with information being distributed in varied topics such as coping with examination stress, the various food groups, particularly those conducive to the boosting of concentration while studying and preparing for exams, and healthy eating in general.

The number of students who contacted the Nursing Service of the Health Unit in 2012/2013 is presented in the following graph. These contacts took the form of personal visits, telephone calls, emails, texts to the Health Unit and face-to-face meetings at the Health Promotion Days.

Number of students who contacted the Student Health Unit



Conclusion

We aim to provide for the varying needs of the LIT students who present to our Health Unit and to meet the challenges being presented to the service from all other areas.

We aim to develop and up- skill ourselves, through training courses, thus enabling us to provide the best possible standard of care to our students in all the campuses.

(D) COUNSELLING SERVICE

LIT Student Counselling Service Mission Statement:
To provide a non-judgemental confidential support to LIT students in order to enable students' work through any difficulty, explore possibilities and make decisions for themselves.
The student counselling service assists students on many levels:

- It provides short-term counselling and therapeutic support.
- It responds to crises as appropriate.
- It acts as a referral source for other relevant services both within and outside of the college.
- It provides LIT staff training and consultation.
- It plays a role in prevention, education and evaluation.

A total of 1518 direct counselling hours were offered to students this year, taking account of the LIT Tipperary numbers that have been integrated with this report that is an increase of 83 hours counselling across the Limerick campuses despite reduced capacity. Of that 129 cancelled, 142 did not attend and 29 did not show for an initial assessment appointment. 13 hours were given to emergencies. In total 265 students (143 female and 122 male) availed of the student counselling service. An additional 260 staff were supported in their work with students. The average number of sessions per client was 5.7 (a slight increase on last year 5.3).

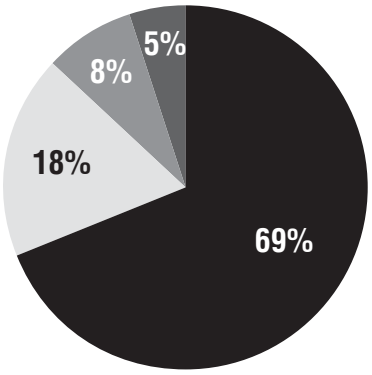
The average wait from first contact to assessment was 12.7. The average number of days waiting from assessment to on-going counselling was 10.5 days which is a reduction on 17.2 days last year. All students at risk were given immediate priority. Students at assessment were administered the BSI 18 (Brief symptom inventory 18) to assist in recognising students who needed to be seen quickly. This measure assesses depression, anxiety and somatisation. Any students above the clinical range were given priority; those showing high levels of suicidal ideation at screening were contacted first. The average severity rating for students when they first attended was 4.5 (out of 7) while the average at finishing was 2.1 displaying a clear reduction in symptoms.

Student Profile:
Of the 265 students who availed of counselling, 143 were female while 122 were male.

Categories of Students Presenting Issues

- Abuse
- Academic issues
- Anxiety
- Addictive behaviours
- Depression and mood change or disorder
- Loss
- Other mental health conditions
- Physical health
- Eating disorders
- Relationships
- Self and identity
- Sexual issues
- Transitions
- Welfare and employment
- Self harm

The chart below represents the number of students from each campus attending counselling.



Percentage of Students from Each Campus Attending Counselling

Moylish Campus	69%
Clare St. Campus	18%
Thurles Campus	8%
Clonmel Campus	5%

OTHER ACTIVITIES OF THE COUNSELLING SERVICES

- Positive Mental Health Initiatives - Publication of our Guide to Mental Wellness and Wellbeing launched Oct 10th to coincide with World Mental Health Day.
- Attendance at conferences dealing with suicide and mental health
- World Suicide Awareness Day - September 10th 2012-As this date clashed with first year registration, it was decided to do an email awareness campaign this year. An email was sent to all staff and students.
- The counselling service contributed to Student Induction, Staff Induction and Mature Student Induction
- Cycle against Suicide - Bressie was the celebrity guest on the day and he has agreed to do a mental health event with SU and Student Counselling next year.
- Examinations - A member of the Student Counselling team was on call during all examinations (summer and autumn) and responded to crises as they arose.
- Health Promotion Days - In conjunction with the medical service, student counselling assisted in the organising and coordination of health promotion days, one in Moylish and the other in LSAD. This year the counselling service also assisted with pre-exam stress and health awareness days where we gave out healthy food and exam stress packs.
- Other Services - The student Counselling Service has liaised well with other services in a cooperative manner in the best interest of our students e.g. meetings with treatment centres, Bushy Park, Tabor Lodge, Pieta House, HSE, AA, NA, Limerick Mental Health Association, Parent Support etc.

Overall students' evaluated the counselling service very positively, with 97% saying they would return again to the service. The overall satisfaction, retention and successful outcomes with the client group is extremely positive and affirm the important role that student counselling plays in supporting the holistic education of our learners in LIT.

(E) ACCOMMODATION SERVICE

The accommodation service operates on a (1) Personal Referral - whereby each student is referred to a given address, and (2) Personal Inspection - whereby each student inspects his/her accommodation. The accommodation office invites first year students to contact the accommodation office by coming in personally. We can supply the student with an address that matches their particular requirement and/or make an immediate appointment to inspect that address. If satisfied the students finalise their arrangement there and then.

Only in very exceptional circumstances will the officer finalise accommodation arrangement for a student who has not inspected and approved the accommodation himself/herself.

The accommodation office opens on a full time basis in August for six weeks and then on a part time basis for the remainder of the academic year.

For rented accommodation, i.e. flat, bedsits, houses you can visit our website www.lit.ie/accommodation where an up to date list can be obtained.

Our first and foremost task is helping the student find suitable accommodation.

(F) STUDENT'S UNION

The Student's Union continued to act as an independent representative and support service for students through the Governing Body, the Academic Council, and also at school, department and course level along with USI. Co-operation, which has developed between management and students, has given rise to much of the development outlined in the report. The Student's Union provided support, advice and information on a wide variety of issues. The Student's Union held campaigns such as Mental Health Week, Sexual Health and Guidance Week, Road Safety Week, Drink Aware Week, LGBT Week and Health Promotion Week. The Student's Union is an organisation run by students to cater for the students' needs. The day-to-day running of the Student's Union was carried out by the Executive Committee, who is all elected by student ballot. There were three separate unions; the School of Art & Design SU, LIT Tipperary SU (LTSU) and the Moylish Park SU. This year they all successfully merged together in order to become more efficient for the students of LIT. Student's Union representatives included;

- Ms. Niamh Kavanagh, President Moylish Park SU
- Mr Chris Walshe, Vice President Moylish Park SU
- Mr. Steven Kavanagh, Club and Socs Officer
- Mr Timmy Keane, Welfare Officer
- Ms. Tara Keane, Entertainment Officer
- Ms Michelle Egan, President School of Art and Design SU
- Mr. Ashley Harper,Vice President School of Art and Design SU
- Mr.Russell Roche, President of LIT Tipperary SU
- Ms Grianne O Dywer, Vice President of LIT Tipperary SU Thurles
- Mr. Greath Saunders, Vice President of LIT Tipperary SU Clonmel.

The overall policy and direction of the Union is decided by Class Reps, which is the student that each class nominates to represent their class at monthly Student Union Councils. The main roles of the Student's Union are as follows:

- To represent and protect the rights of students on a local and national basis.
- To afford a recognised means of communications between the students and Institute authorities.
- To provide social and recreational facilities for students.
- To provide a friendly and confidential base for students that have issues on all levels.
- To provide a range of campaigns to create student awareness of their wellbeing.
- Students are encouraged to become involved in the sporting and cultural aspect of Institute life.

Regular meetings were held with the Registrar and the Officers of the Student's Union and a report was presented to each Governing Body meeting.

The Student's Union was represented as follows on the Governing Body and Academic Council;

- Ms Niamh Kavanagh and Mr. Russell Roche were nominated to serve on the Governing Body.
- Mr.Russell Roche, Ms. Niamh Kavanagh and Ms. Michelle Egan were nominated to serve on Academic Council.
- The Student's Union nominated 9 people to serve on the Academic Council Sub Committees.
- The Student's Union was involved on registration day providing an information stand, music and handing out goodie bags to all students that were registering. This brought an energetic feel to the college from the feedback received. Further to this, the Student's Union ran many successful events as part of induction week.

- Due to the merger of LIT and Tipperary Institute, the Student Unions of Moylish Park, Art & Design and LIT Tipperary decided it would be economical to merge into one organisation. After many meetings, there has being a new constitution produced, catering for a whole new structure to all Student Unions. This new constitution was brought to a referendum in October and successfully passed.

Additional activities of the Student Union

- Rag Week was again successfully organised on separate dates for all students and a lot of money was raised for various charities. Day and evening activities took place and the students were given time off on the Wednesday and Thursday. The Students Union used the week to promote Clubs and Societies and to raise money for charities.
- The Student's Union held a very successful Mental Health week with the Cycle Against Suicide Campaign.

Additional funding was allocated to the Student's Union to work towards providing a better student service for Clubs and Societies at the Institute.

(G) SPORTS

LIT students are actively encouraged to become involved in sporting and cultural activities, laying the foundations for all sorts of interesting, diverse and exciting opportunities and contributing to creating an enriched and dynamic student life.

The variety of sports available ensures most interests are catered for including:

Rugby	Soccer	Ladies Rugby
Hurling	Outdoor Pursuits	Ladies Soccer
Camogie	Ladies Gaelic Football	Rowing
Gaelic Football	Ladies Hockey	Basketball
Athletics	Badminton	Golf
Tae Kwon Do	Darts	Boxing
Swimming		

The recreational programme allows students to partake in competitive or non-competitive internal or inter-college events. Students of LIT have had great success in sporting events in the last number of years, particularly in hurling, rugby, gaelic football, soccer, rowing, darts, pool and boxing.

LIT has a range of sports facilities, both indoor and outdoor, including three full size pitches and an all-weather playing pitch. Investment in sport also includes a fitness centre and indoor sports hall. The excellent sports facilities available reflects the high level of commitment to sporting and leisure provision at LIT.

LIT Bursaries 2012/2013

Shane McGrath (GAA)
Denis Maher (GAA)
Mark Gennary (GAA)
James Logue (GAA)
Lorna Daly (Weight Lifting)
Darragh Finn (Boxing)
Tony Kelly (GAA)
James Broderick (GAA)
Paul Browne (GAA)
Cian Nolan (GAA)
Sean O Conor (GAA)
Peter Duggan (GAA)
John Guilfoyle (GAA)
Clondagh Cahill (GAA)
Nollaigh Brophy (GAA)
Eamon Davern (GAA)
Paul Kileen (GAA)
Sean De Leaster (Tae Kwon Do)
Eoghan O Connor (Rowing)
Micheal Quinlan (Outdoor)
David Kiely (Outdoor)
Jamie Lynch (GAA Munster Council)
Niall O Connor (GAA Munster Council)
Alan Dempsey (GAA Munster Council)
Barry O Connell (GAA Munster Council)
Breda Hogan (GAA Munster Council)
Jamie Shanahan (GAA Munster Council)
Eibhear Quilligan (GAA Munster Council)
Thomas Clery (GAA Munster council)
Paddy Heenan (GAA Munster Council)

Other Clubs and Activities of the Sports Office at Moylish Park

- Schools coaching
- Academies
- Club work
- Course facilitation

LIT also competed in ladies hockey, ladies basketball, boxing, golf and this year added a competitive edge to our inaugural badminton coaching programme by playing a friendly game against Cork IT. Our golfers competed in the annual Institute of Technology Fr. Carbery Cup competition hosted by Carlow IT where they swept the boards, winning the overall team competition as well as having the best Individual golfer on the day also. Fitness classes were also scheduled during the year.

LIT Tipperary-Sports

LIT Tipperary provided the following sports for students in the academic year 2012/2013:

- Rugby
- Hurling
- Gaelic Football
- Soccer
- Ladies Gaelic Football
- Ladies Rugby
- Basketball
- Boxing
- Olympic Weightlifting

There was also a fitness programme running with the following classes taking place:

- Kettlebells
- Boxercise
- Pilates
- Circuit training
- Discounted Gym Membership

LIT Tipperary GAA Club

The club fielded 3 competitive teams, Hurling, Football, and Ladies Gaelic Football.
The Senior Hurling Team won the Ryan Cup and the Senior Hurling League Division 2. LIT Tipperary students Shane McGrath received a man of the match award in the Ryan Cup final while Martin Fitzgerald received a colleges rising star award. The football team competed in the national league and the Corn na Mac Leinn cup reaching the quarter finals. The ladies competed in the Lagan Cup reaching the semi-finals and Division 5 of the league, reaching the final only to lose out to LIT.

LIT Tipperary Munster GAA Scholarship's 2012/2013 recipients were;
Shane McGrath
Mark Gennery
Denis Maher
James Logue received a bursary from the Tipperary County Board.

LIT Tipperary Soccer Club

The LIT Tipperary team competed in the CUFL division 2, reaching the semi-finals and losing in the quarter final of the Bob Eustace Cup after extra time.
The team also competed in the regional futsal event held in UL.

LIT Tipperary Rugby Club

LIT Tipperary Rugby club is a vibrant and active club. With one male team and a female team (who are joined with LIT Limerick), the club caters for every Rugby grade from beginner to AIL Player.

LIT Tipperary Basketball Club

LIT Tipperary Basketball club is in its second year college. This club caters for females only at the moment. The club trains twice per week and plays against clubs in the Tipperary area in the form of blitzes and they also play against other college teams.

LIT Tipperary Boxing Club

LIT Tipperary Boxing club is in its second year in the college. There were 3 fighters from LIT Tipperary competing in the intervarsities this year.

Olympic Weightlifting

This is a new club in the college and is open to males and females. 4 members of the club (1 Female and 3 males) competed in the intervarsities. Club member Lorna Daly is a member of the Irish team.

Scholarships

Darragh Finn received a scholarship for Boxing. Lorna Daly received a scholarship for Olympic Weightlifting.

(H) CAREERS SERVICE

The Careers Service is availed of by a range of students from pre-entry, current undergraduate and postgraduate students, recent graduates and alumni. At LIT, engagement with students happens in a number of ways as outlined below. The aim is to increase participation in workshops and group events in an effort to relieve the time dedicated to one-to-one consultations to ensure a service that can be accessed by all.

Workshops/Group Sessions

The Careers Service participated in the Student Services Induction which was delivered to all first year students in September 2012. This provided all new entrants with an overview of the service. A briefing on the service was also delivered as part of the Postgraduate Induction organised by the GRO Office and the Mature Student Induction organised by the Access Service.

An initial class briefing is given to final year classes and those preparing for placement. This outlines the services available to students from the Careers Service.

A Careers Planning session was run with all 1st Year students in the IT Department. Workshops on CV Preparation, Interview Skills, Preparing for Postgraduate study, Using your Network and Effective Job Search were delivered to a wide variety of classes. In the Academic Year 12/13, 109 hours of workshop/group sessions were delivered, showing a steady increase year on year. Workshops are either delivered to a specific class group at the request of an academic staff member or all students are invited to attend open workshops offered weekly.

CV Review Days

8 dedicated CV review days were scheduled throughout the academic year 2012/13. This service provided students with the opportunity to have their CV reviewed,often coinciding with employer visits or events.

One to One Consultations

Students can avail of one to one consultations with the Careers Service. This is a confidential service.

In 2012/13, 451 students availed of one to one appointments. Consultations related to topics including: CV review, placement information, graduate applications, course change, withdrawal, postgraduate opportunities and preparing for interview.

The number of students availing of consultations decreased slightly in 2012/13 having shown a steady increase for a number of years. Whilst consultations are availed of by all students, the increasing number of access category students in the Institute has led to a rise in demand as has the many external challenges faced by our students including a difficult graduate jobs market. The slight fall this year may reflect the increased number of workshops and CV review sessions.

Quick Query Drop-in Service

In 08/09, a Quick Query drop-in service commenced in the Library Careers Resource area two hours per week. In 2012/13 the number using the Quick Query service was 158 students. This gives a combined total relating to student consultations at 609.
One hour, weekly quick query sessions specifically for students from the School of Business and Humanities were run throughout the second semester.

Interview Preparation

Tailored Interview Skills Workshops were delivered to a number of class groups including the H.Dip in Education Art & Design Education, B.A. (Hons.) Accounting & Finance, B.Sc.(Hons.) Property Valuation & Management. Individual Role Play interviews were organised in association with the School of Business – this provided individual role play interviews for students applying to the large accountancy firms. Mock Interviews were also conducted in association with the Department of Applied Science for final year and third year students of the B.Sc. (Hons.) in Drug and Medicinal Product Analysis and B.Sc. (Hons.) Pharmaceutical & Forensic Analysis & B.Sc. (Hons.) Bio analysis & Biotechnology. One to one interview coaching sessions were also availed of by students of all disciplines.

Placement Preparation

A number of workshops and preparatory sessions were delivered to classes preparing for work placement. These included: Software Development, Computer Networks & Systems Management, Internet Systems Development, Multi-media Programming & Design, Pharmaceutical & Forensic Analysis, Drug & Medicinal Product Analysis, Event Management, Tourism Management, Front Office Management, Visual Communications & Creative Multi-media.

First Destinations Survey – Class of 2012

The First Destinations Report, compiled annually at Limerick Institute of Technology presents detailed information relating to the circumstances of graduates approximately one year after graduation. The survey was conducted between May and September 2013 with an initial postal campaign to all graduates and an option of completion by hard copy or utilising on-line survey management software Surveymonkey.com. Additionally, a follow-up SMS campaign using the new in-house text alert system was launched. There were 1153 graduates surveyed, 378 responses were received, representing an average response rate of 36%.

Jobs Advertising

The Careers Service provides employers with the opportunity to advertise their graduate/placement/part-time opportunities to students. The service uses the LIT Careers webpage, Facebook, LinkedIn, Twitter, campus noticeboards and targeted alumni mailing lists to advertise vacancies. In 2012/13 the service advertised 281 jobs to students and graduates.

Company campus visits

Companies continue to visit the campus to deliver presentations to students and to conduct interviews for work placements and graduate roles. In 12/13, LIT was chosen as a “preferred supplier” of graduates to SAP and Lidl Ireland reflecting the high caliber of graduates. Companies visiting the campus outside of the successful Careers Fair/Seminar included:

- EY
- Grant Thornton
- PWC
- BDO
- Washington Ireland Programme
- Abbott
- Lidl
- Focus Ireland
- Northern Trust
- SAP
- SourceDogg
- Gentle Giant
- JRI America
- Stryker

Careers Fairs

The LIT Careers & Further Options Fair took place on October 16th 2012 and took place in the autumn term for only the second time. This decision was taken to ensure that LIT was operating in line with other Institutions in order to maximise attendance by employers.

The Fair, for the third year, included further educational institutions reflecting the increased demand for further study. The event attracted 52 organisations, a steady increase from 43 in 2011.

New companies attending for the first time included Proctor & Gamble, Accenture & Cook Ireland.

Promotional material including information about the participating employers/institutions were designed, printed and distributed across the campus over two lunchtime periods before the event.

(I) ACCESS SERVICE

LIT is committed to promoting equitable access to and successful participation in higher education for all members of society. Social inclusiveness and respect for diversity are fundamental to the ethos that is adopted by the LIT Access Service.

The Access Service Report 2012-13, outlines LIT's local and national commitment to widening access for underrepresented student groups including:

- Students who experience socio-economic disadvantage
- Students with a disability and/or specific learning difficulty
- Mature students
- Traveller and ethnic minorities.

The concept and practice of a partnership approach is central to the delivery of the Access Service. Partnership with students, staff, education providers, community, statutory and voluntary agencies provide LIT with the mechanisms through which targeted strategies and initiatives are delivered to promote and facilitate entry to and successful participation in higher education to underrepresented students. The successful realisation of the widening participation agenda also requires that students' progress in their academic studies and move into graduate employment.

Limerick Institute of Technology has a successful record in widening participation to higher education as is evident in the diversity of its student population. Collaboration and engagement with key stakeholders such as education providers, FE and HE Partners, community, statutory and voluntary agencies continues to support and develop educational opportunities, which contribute to an improvement in the economic, social and cultural well-being of our region.

Pre- Entry initiatives pertaining to the Access service include the following;

- **The Go4IT Programme** is a collaborative initiative with St. Munchin's Family Resource Centre and aims to support young people from Limerick's Northside RAPID area who have academic potential but are from backgrounds where there is little or no tradition of progressing to third-level education. As part of focusing on third-level education, the programme also aims to introduce the concept of lifelong learning, demonstrating the value and purpose of education. In 2012/13, Parental Engagement became a focus of the progamme and parents of participating children were invited in for a coffee morning, a tour of LIT, and an information session on 'Study Skills for parents'.

- Phase 1 of the **LIT Aspirations programme** commenced in April 2012, the aim of which is to support fifth and sixth year students from participating DEIS schools in Limerick and Tipperary in their progression to third-level education. LIT Access Service works in partnership with LIT Tipperary school and National Learning Network to deliver the Aspirations programme.

- LIT Access Service continues to operate in partnership with Business in the Community Ireland (BITCI) through the Schools' Business Partnership programme and is partnered with St. Nessan's Community College to deliver the Skills @ Work programme. The main aim of this

programme is to positively impact on educational inclusion and address key issues in areas of educational disadvantage in Ireland. In the 2012-2013 academic year, the programme was delivered to seventeen, fifth year participants from St. Nessan's Community College who attended five sessions from January to May 2013.

- To celebrate adult learning in LIT, the Access Service worked in collaboration with the Development Office in organising events around the **AONTAS Adult Learners' Festival 2013**. Activities included a coffee morning for adult learners and the re- launch of the LIT Learning Tree.

- **Adult learning visits to LIT**-Visits from VTOS and other centres of adult learning continued in 2012/2013 with visits from centres in Limerick, Clare and Tipperary.

The Institute also recognises that successful widening participation also requires that student's progress in their academic studies and move into graduate employment. The LIT Vision and Strategy to 2020 'Active Leadership in Education, Enterprise and Engagement' affirms this commitment to supporting students throughout their academic journey. LIT's Access Service offers the following targeted initiatives to support and address the successful progression of students.

Post Entry initiatives pertaining to the Access Service include;

- The Guided Initiative in Voluntary Engagement **(GIVE)** encourages all LIT students to engage in voluntary activities. Trained and supported by the Access Service, the project benefits both the community and the volunteers by combining a service experience with a learning and development experience. In recognition and appreciation of their contribution, volunteers receive a President's Commendation and in May 2013, the President of LIT, Dr. Maria Hinfelaar commended sixty- two GIVE members for their voluntary engagement throughout the academic year.

- Mature Students comprised of 29% of the total undergraduate student population in 2012/2013. Activities offered by LIT for mature students include a comprehensive induction and orientation programme, information seminars, (provided on and/or off-campus), open days and a mature student information evening. Mature students are also supported through a Mature Student Support Network, and relevant workshops tailored to address the mature students' needs.

- The LIT Mentoring Service has improved the interface between students and the Institute as all first year students are assigned a Mentor. Mentors are comprised of staff from across the Institute. The supportive relationship between mentor and student enhances the learning environment and encourages students in reaching their full potential.

The financial implications of a student's third level experience are a growing concern and can sometimes lead to non-progression. **The Student Assistance Fund** (SAF) provides limited support for whole-time LIT students who are experiencing severe/ongoing financial difficulties. The SAF 2012/2013 was funded by the Irish government and part funded by the European Social Fund under the Human Capital Investment Operational Programme 2007-2013. The total SAF spend for 2012/2013 was €380,352, which supported 14.8% of the total registered full-time undergraduate students. In addition to regular SAF applications 283 mature students received books funded by SAF in association with the Institute library. The 2012-2013, **LIT Child Minding Subsidy** is funded through Capitation (€120,357) and SAF (€12,000). During 2012-2013, 130 students were supported by the fund which provides limited support for whole-time LIT students who are in financial difficulty with childcare costs.

During 2012-2013, 6.2% of students (including apprentices), registered their disability and/or specific learning difficulty with the **Disability Service**. The national HEI participation rate is 4.6%. LIT received €482,519 from the HEA Fund for Students with Disabilities funded by the Government under the National Development Plan 2007 – 2013 with assistance from the European Social Fund. This fund supports specific individual needs for students with disabilities who qualify under specific terms and conditions. During the academic year, the supports available for students with disabilities include, but are not limited to, a Disability Officer, Dyslexia Support Tutors, assistive technology provision and training, extra tuition, academic and/or personal assistants, specific examination accommodations and costs towards transportation. Supported by Dormant Accounts, LIT hosted the Munster Better Options event at Thomond Park Stadium in November 2012.

2012-2013 was an extremely busy year for the Access Service and one which was marked by positive participant feedback from those who engaged in and/or were supported by the diversity and number of programmes delivered by the service.

(J) STUDENT RESTAURANT

Full restaurant facilities were available to students at the Limerick and Tipperary campuses during the academic year.

(K) BANKING SERVICE

Allied irish Bank continues to provide a full banking service and cash dispensing facility at the Moylish Park campus, Clare St campus and the Thurles campus. AIB also provides a cash dispensing service on the Clare St. and Thurles campus.

The Institute has long been engaged in the development of international relationships for the benefit of its students and stakeholders.

04

INTERNATIONAL ACTIVITES EXTERNAL ACADEMIC LINKS

INTERNATIONAL ACTIVITIES

The National Higher Education Strategy sets internationalisation as a key national higher education objective and LIT has incorporated this into its own strategic plan.

LIT's commitment to Internationalisation is reflected in the following goals of the LIT Vision and Strategy to 2020:

- LIT will increase the number of international learners, in line with Government policy (EU and non-EU, on fee-paying as well as exchange schemes). Such learners will be recruited in a targeted manner where there is existing capacity and where links can be forged with international partners. Undergraduate, postgraduate and enterprise incubation support programmes will all be part of the mix of offerings to international learners.
- Incoming international learners will be adequately supported, for instance through link-ups with local families and a new "buddy system" through the Students Union. LIT learners will also be encouraged to get international experience, e.g. through work placements or study abroad. Our existing bilateral partnerships or networks with institutions in the EU and in Florida, US, will be nurtured and deepened. LIT will also seek to expand global horizons with partnerships in China and India.
- LIT will maximise its scope for internationalisation through collaborative and transnational provision of degree programmes with preferred international partners as defined under national policy.
- Shifts in economic outlook, as well as the evolution in the global workplace, place a requirement on LIT to further internationalise the curriculum. Graduates need to be able to look beyond boundaries and this will be reflected in academic programmes.
- LIT's approach and development of quality assurance systems and processes is effective and sophisticated. Our Quality Assurance is in line with standards and guidelines for the European Higher Education Area, and with the national guidelines and criteria for QA procedures to be overseen by the integrated agency Qualifications and Quality Assurance Ireland (QQAI). Staff members are aware of national and international best practice in academia and in the profession. As a next step in the development of QA, we will engage in Institutional benchmarking with one or more international partners.
- LIT will engage in innovative applied research in partnership with industry, supporting international operators as well as indigenous players. Such applied research focuses on existing or emerging areas of expertise within LIT, which may be enhanced by talented researchers whom we attract.

Implementation of the Strategy

The Institute has long been engaged in the development of international relationships for the benefit of its students and stakeholders. The following markets have been identified as opportunities for LIT and growth prospects: China, India, Oman, USA, Canada, Brazil, Malaysia and Turkey. These markets are at various stages of development.

A brief description of recent international activities is set out below:

China: LIT has established links with Yangtze University in China. At a visit by the President, Vice President Academic Affairs & Registrar, Built Environment Head of School and staff in November 2012, an agreement was signed providing for Yangtze student flows to LIT for the final year or second year of two Built Environment programmes .The agreement is currently with the Federal Ministry of Education for approval. An MOU was also signed with Hangzhou Normal University Qianjiang College. There has also been some individual student recruitment from China. LIT is also part of the Limerick China Foundation which represents all three HEIs in Limerick as well as City Council and other state agencies and private sector companies and associations. The foundation hosted a visit from the Vice Mayor of Nanjing in March 2013.

India: The President, Head of School of LSAD, Head of School of Built Environment and Head of School SEIT participated in two visits to India during 2012. MOUs have been signed with a number of Universities and Indian agencies. In September 2012, seven students from India came to LIT, six on the M.Sc. in Analytical Science. Further visits in 2013 by the Marketing and International Manager indicate that student numbers in 2013/14 will increase.

Oman: A number of students from Oman are due to join LIT for a one year International Foundation Programme in September 2013. The Marketing and International Manager visited Oman in August 2013.

US and Canada: LIT visit the US frequently due to staff exchange, research and student placements (e.g. NASA), Enterprise (ITLG) and fundraising. An agreement signed by IOTI with Ontario colleges allows Canadian students to travel to Ireland for an add-on year to complete their full Honours degree.

- An MOU was signed with the University of Prince Edward Ireland, Canada, 26th June 2013.
- Fourteen students and two staff members from the Art Department at the University of Florida came to Limerick in July for a 2 week summer programme in Clare St Campus.
- Ms. Marilyn Lennon, LSAD, attended a conference in Portland, actively promoting the LSAD M.A. SPACE programme.

Brazil: Brazil is now the 6th largest economy in the world with over 200 million people and a huge growing demand for higher education. Under the four year Science without Borders (SWB) programme, 100,000 Brazilian (mainly STEM) students will study for up to 1 year abroad fully sponsored by the Brazilian Government. Around 5,000 are earmarked to come to Ireland over the next 4 years from 2013 with approximately 650 approved for Ireland for the first call in 2013. LIT has secured 31 students for September 2013 intake.

The Vice President Strategy and External Affairs visited Brazil at the end of April 2013 and attended their international officer's conference. There were over 100 Universities /HEIs represented. There was a very strong interest in Ireland and LIT.

The SWB programme will be a platform to build long term relationships involving student and staff exchanges, joint research projects and international partnerships. LIT have a number of partnership opportunities lined up with specific Brazilian Universities.

Malaysia and Turkey: LIT is in the early days of building relationships with both markets. LIT signed an MOU with the Malaysian University, Limkokwing, in London on May 14th 2013.

Ms. Marie Walsh, Department of Applied Science, brought a group of LIT students to a Turkish University (Kookmin) in June 2013 to participate in a summer school with students from other countries.

Student Exchanges and work placements

Erasmus Mobility has been LIT's traditional space for internationalisation. During 2012/2013, the activities under the LLP Erasmus Programme continue to develop. Funding totaling €119,769 was received from the HEA for mobility activities during 2012/2013.

Erasmus Study Exchange and Placements (Outgoing and Incoming):

During 2012/2013, seven students from the following disciplines participated in the Erasmus Study Exchange programme: Fine Art, Design, Marketing and Business. These students studied at Erasmus Partner Institutions in the following countries: Germany, France, Hungary and Estonia.

Thirty-nine students from the Limerick School of Art & Design, School of Science, Engineering and IT and School of Business and Humanities were placed on Erasmus-funded placements at companies/organisations in the UK, Netherlands, Spain, Denmark, Germany and France.

The Institute also welcomed 22 incoming Erasmus students for study exchanges and placements during 2012/2013.

Erasmus Staff Mobility

Five Erasmus lecturing exchanges took place during the year to Germany, France and Portugal. These visits are highly valued as they provide up-to-date industry/specialisation insight for students and staff. One staff member went on an Erasmus funded training visit to Romania.

Internal Support Infrastructure

So as to achieve the internationalisation goals set out above Executive responsibilities have been re-aligned with Internationalisation now becoming part of the responsibility of the Vice President Strategy and External Affairs. An International Office was formed in May 2013 comprising of:

- Vice President Strategy and External Affairs: Mr. Michael O'Connell
- Marketing and International Manager: Mr. Michael Cox
- International Officer (Moylish): Ms. Cliona Campbell
- International Officer (Thurles): Ms. Sinead Collier
- Clerical Officer: Ms. Niamh Kavanagh.

Plans have been developed to establish an International Centre on campus as a focus for international activity. This is expected to be in place for September 2013.

In October 2012, there was an Institute wide call for the establishment of new dedicated research centres and groups. The call was met with an overwhelming positive response bringing the total number of research centres and groups (including those previously established) now at LIT to 14 as of June 2013.

05

RESEARCH DEVELOPMENT & ENTERPRISE

LIT RESEARCH CENTRES & GROUPS

In October 2012, there was an Institute wide call for the establishment of new dedicated research centres and groups. The call was met with an overwhelming positive response bringing the total number of research centres and groups (including those previously established) now at LIT to 14 as of June 2013 . The new centres and groups span a wide range of disciplines from Fine Art and Design, to Social Sciences, Microbiology, and Games Technology and Systems. The new research centres and groups are outlined below:

ART, CURATORIAL, APPLIED DESIGN AND EDUCATION RESEARCH CENTRE (ACADEMY)

The research ethos of ACADEmy led by Tracy Fahey is principally (but not exclusively) practice-led with most of the current cohort of MA and PhD researchers engaged in studio-based, themed research projects where emphasis is placed on active and 'dialogical' contextual approaches. Over the last 15 years, parallel research themes have crystallised into three main axial clusters in line with the research expertise and interests of staff and student researchers of ACADEmy in Social Responsibility, Curatorial Practice, and Otherness.

ANALYTICAL SCIENCES RESEARCH GROUP

The Analytical Methods research group, led by Dr. Michael Geary is comprised of researchers and principle investigators from within the Department of Applied Science whose research involves the use of state-of-the-art technologies and industry leading methodologies for new method development for a wide variety of applications.

BUILT ENVIRONMENT TECHNOLOGY AND EDUCATIONAL RESEARCH GROUP (BETER)

BETER (Built Environment – Technology and Educational Research) is a community of academics, practitioners, and postgraduate research students, led by Dr. Rita Scully and Kevin O'Riordan which undertake educational research in built environment theory and practice. It promotes research that informs the development of teaching and learning across different built environment disciplines, using existing and emerging educational paradigms.

CENTRE FOR GAMING, ANIMATION,MEDIA, ENTERTAINMENT AND SOFTWARE (GAMES)

The Games Entertainment Technologies Research Group, led by Philip Bourke comprises of researchers with expertise in Gaming, Animation, Media, Entertainment and Software (G.A.M.E.S) and their research activities will focus on the research needs of digital content producers within the Digital Games, Animation and Media industry sectors. The core technology research areas will include Design, Programming, Visual Art and Audio. Technical research will be augmented via Business Development Services such as a Digital Games Bureau and Focus Group activities. LIT's GAMES Entertainment Technologies Research is contributing to the development of the Entertainment Technology sector in a number of ways, and is now focusing on enhancing the scale and nature of that contribution.

CENTRE FOR RURAL AND SUSTAINABLE DEVELOPMENT (CRSD)

The aim of the Centre for Rural and Sustainable Development (CRSD), led by Seamus Hoyne is to re-enforce LIT's position as a leading actor in the sustainable development sector, thereby creating opportunities for engagement in research, development and academic activities. Rural development in this context refers to the sustainable development of rural areas, particularly in Ireland, but also in Europe and globally.

CHEMICAL & MOLECULAR MICROBIAL BIOTECHNOLOGY RESEARCH GROUP (CHIMERA)

CHIMERA, led by Dr. Patrick Murray composes a multidisciplinary group of scientists with demonstrated research excellence in all forms of microbial cell factory research including traditional microbial substrates (bacteria, yeast and fungi) but also in microalgal and cyanobacterial as well as tissue culture and mammalian cell culture technologies. The aim of this CHIMERA research group is to screen microbes (bacteria, fungi, yeast, microalgae, cyanobacteria etc.) from varied habitats for bioactive compounds with industrially relevant commercial opportunity.

The Chimera group has recently been funded by the Department of Food Agriculture and the Marine FIRM research call. The project was funded in section B.3.1 Functional ingredients/foods and bioactives (ii) Full chemical and biological activity characterisation of mushrooms and revealing the potential of fungi as a metabolite producer for the pharmaceutical and functional foods industry.

The project title is 'Mushrooms and Fungi, Functional and Life Enhancing Reservoirs MUFFLER. The value of the project is €162.138 and will fund 2 PhD students and is coordinated by Chimera member Dr. Catherine Collins with Principal Investigator Dr. Patrick Murray.

Specifically Edible mushrooms and fungi are a valuable source of nutrients and bioactive compounds. Recently, edible mushrooms have become increasingly attractive as functional foods for their potential beneficial effects on human health including anti-oxidant, anti-cancer, prebiotic, immunomodulating, anti-inflammatory, cardiovascular, anti-microbial and antihyper- cholesterolemia effects. Having such a repertoire of bioactives, mushrooms and fungi have great potential to provide lead compounds for the pharmaceutical industry. This project aims to evaluate different edible mushroom available to the Irish consumer as functional foods. We propose to examine chemical composition to determine the nutritional value of the mushroom by analysing their crude composition (protein, fat, and carbohydrate), fatty acid, sterol and polyphenol profiles. We will also focus on the biological characterisation of these edible mushrooms by investigating the anti-oxidant activity, immunomodulatory activity, angiotensin I-converting enzyme (ACE) inhibition to lower blood pressure, and HMG-CoA reductase inhibition assay (involved in lowering of cholesterol). We also propose to screen other mushroom and fungi from Irish habitats for the above biological activities in addition to: anti-microbial and laccase activities. Such a study could lead to the isolation of lead compounds for the pharmaceutical industry as well as being of benefit to the Irish mushroom consumer and producers.

Chimera group members Dr. Patrick Murray and Dr. Siobhan Moane were also successfully funded by the IOTI post-graduate National research scheme. This Funding will fund a PhD student to work on the project SmartAlgae. There is a significant societal interest in marine origin natural products that can promote health and wellbeing for mankind. Marine biotechnology is considered one of the most exciting emerging technology sectors with a predicted Irish annual turnover of €61 million by 2020. Due to their predominantly phototrophic life, microalgae are exposed to high oxygen and radical stress which has led to the evolution of elevated carotenoid pigment levels whose potent antioxidant activities protect against oxidative damage. Carotenoids are an important class of natural fat soluble pigments commonly found in algae, but few have been commercially exploited. Carotenoids such as β-carotene, lycopene, astaxanthin, zeaxanthin and lutein are all produced by microalgal species and have been proven to remediate UV-oxidation damage in the skin and retina. The market value for carotenoids is expected to reach approximately $1bn by 2015 and is dominated by β-carotene and astaxanthin representing approximately $250m. Other carotenoids such as lutein, lycopene and zeaxanthin are also of importance commercially with the global market for lycopene and lutein growing substantially in past years. This research project will develop innovative, environmentally friendly, sustainable, bio-production pathways for enhanced high added-value bio-active carotenoid production from the microalgae species Dunaliella salina and Haematococcus pluvialis. We will modulate specific cultivation conditions of both light intensity and spectral content utilising LED lighting technologies as well as nutrient levels allowing enhanced carotenoid accumulation by these algae. We will also employ state of the art extraction methods allowing for non-solvent based green extraction and product stabilisation using a novel combination of Super Critical CO2 (SCFE) and Molecular Imprinting Technology (MIP).

Dr. Sushanta Saha, Dr. Patrick Murray and Dr. Siobhan Moane were also successfully awarded funding for two further PhD students working on Microalgal Biodiesel and production of microalgal reference standards for industrial use. Renewable energy sources are receiving increasing attention due to decreasing oil reserves and increasing environmental consciousness. Vegetable oils are used for biodiesel conversion and corns are used for bioethanol production. Biofuels present themselves as a green alternative as they employ photosynthesis to produce energy and thus reduce atmospheric CO2. However, present practice of biofuel production threats on food-crop production. Hence, globally microalgae as an alternative for Biofuel have received priority. The main reason for choosing microalgae for biofuel-production is that they are more efficient than vascular plants at turning light and nutrients into valuable products. They can be cultivated in controlled environment without compromising arable lands and using marine/brackish water. The Irish Government's strategy for Science, Technology and Innovation SSTI 2006-2013 emphasised the need to develop Marine Biotechnology. This proposal addresses this strategy directly as there is a paucity of marine microalgal research in this country. More importantly, marine diatoms (microalgae) represent an untapped natural Irish resource for biofuel production. Their sustainable cultivation using marine water will help developing marine bioenergy sector of this country. We propose to initiate the exploration of native marine diatoms from coastal locations of Ireland. This project will isolate, and evaluate purified, cultivable diatom's potential for biofuel production using biorefinery concept. First, oil from the biomass will be extracted for biodiesel use, and the left-over biomass will further be analysed for their carbohydrate content for the conversion of bioethanol. Same, left-over biomass will be analysed for their protein content as a source of essential amino acids of animal feed. Therefore, proposed project has two broad aims: 1) Establishment of an Irish marine diatoms biobank for present and future explorations; and 2) Analysis of major macromolecules (Lipid, fatty acids, carbohydrate and protein) content for their suitability for biofuel feedstocks.

The outcome of the project will be the development of a range of high certainty, stable reference materials capable of providing assurance of accurate, traceable measurement in the analysis of food contact materials in foodstuffs and the determination of fatty acid esters and glycerides in foodstuffs which will extend the product range on offer by Reagecon.

Using state of the art environmental growth chambers we will enhance the lipid content of microalgal stains using a combinatorial approach by altering the environmental conditions in which the strains reside. LED lightening technologies will be used to modulate both light intensity and spectral content to enhance biomass productivity of selected microalgal species will be investigated. The use of LED lighting in place of High Pressure Sodium lights reduces energy inputs, and associated CO2 costs, by as much as 80% due to higher efficiency of the lamps, efficient use of light produced, and reduced heat inputs. In addition, the production of fatty acids may be influenced by spectral quality. The metabolite pathway of certain photosynthetic species has been demonstrated to be under spectral control, and the production of bioavailable bioactive secondary metabolites has been increased without any additional energy inputs through optimisation of the light spectrum. This will allow the production of tailor made standards for lipid analysis in the food industry. Successful completion of this process could lead to future upscaling of the growth and extraction processes utilising Irish companies (Algae Health for example are already producing microalgal extracts on a 10,000L production scale).

Optimised cultivation conditions once established will then be used to cultivate the microalgal species in the presence of deuterated water as part of the standard growth media. The research group at LIT have previously established bioaccumulation of deuterated secondary carotenoid metabolites by other microalgal species cultivated in this manner. These extremely high value deuterated fatty acid standards e.g. EPA/DHA LA and others deuterated microalgal fatty acids can then be used as internal standards in the microalgal fatty acid extraction methods developed during this research project. The deuterated forms of the microalgal fatty acids will serve to identify and compensate for the loss of analytes during the extraction process. Furthermore the duterated fatty acids can serve as analytical reference standards for quantification of certain fatty acid concentration during LC/MS/MS analysis in food and health industries.

PUBLICATIONS

1. Environmental evaluation of eicosapentaenoic acid production by Phaeodactylum tricornutum Paula Pérez-López Sara González-García Céline Allewaert Annick Verween Patrick Murray Gumersindo Feijoo, M Teresa Moreira Science of The Total Environment Volumes 466–467, 1 January 2014, Pages 991–1002

2. Effect of macro- and micro-nutrient limitation on superoxide dismutase activities and carotenoid levels in microalga Dunaliella salina CCAP 19/18 2013 Bioresource Technology Vol. 147 p 23-28 Sushanta Kumar Saha, Siobhan Moane, Patrick Murray.

3. Life cycle assessment of the production of the red antioxidant carotenoid astaxanthin by microalgae: from lab to pilot scale 2013 Journal of Cleaner Production xxx 1Paula Pérez-López Sara González-García, Clayton Jeffryes, Spiros N. Agathos, Edward McHugh, Daniel Walsh, Patrick Murray, Siobhan Moane, Gumersindo Feijoo, Ma Teresa Moreira.

4. Sustainable production of biologically active molecules of marine based origin 2013 New Biotechnology Volume 30, Issue 6, 25 September 2013, Pages 839 Patrick M. Murray1,2 et al.

5. Tagging of biomolecules with deuterated water (D2O) in commercially important microalgae 2013 Biotechnology Letters Jul;35(7):1067-72.Sushanta Kumar Saha, Jeremiah Hayes, Siobhan Moane, Patrick Murray.

ENERGY MANAGEMENT AND ENVIRONMENTAL ECOSYSTEMS (EMME)

The EmmE group research interests, led by Dr. Josephine Treacy include air, water and soil analytical testing, monitoring and management. It involves researching, regulatory and policy procedures, impacting on the environment. The EmmE group is in a position to provide not just the technical analytical expertise that our industrial partners require, but also the regulatory knowledge (e.g. of REACH, of EU Directives) with which they must increasingly comply, and the know-how to use analytical methods to demonstrate compliance.

FOOD RESEARCH AND DEVELOPMENT CENTRE (FOODS)

The Food Research and Development Centre (FoodDS), led by Dr. Tracey Larkin and Agnes Bouchier-Hayes focuses on Irish consumer driven research through investigation into sensory analysis, innovation, development and design of food products. The Food Development Service is concerned with investigations into the Irish Adult Consumer and provides a comprehensive insight into Irish adult food preferences that drive choice, expectation and portion size.

GENDER AND SEXUALITY RESEARCH GROUP

The main focus of the research carried out by the Gender and Sexuality Group, led by Lisa Scott is the exploration of issues relating to gender and sexualities in a time when beliefs and practices and the ideologies that support them, are changing rapidly. In line with much of the work done in this area of interest, a major methodological interest will be in the use of critical methods of investigation and a focus on anti-oppressive practices. Social constructionist and phenomenological approaches are of particular interest as they explore the ways in which social identities and practices are maintained, reworked and rejected in post-modern society.

HEALTH & SOCIAL RESEARCH GROUP (HEALR)

The HEALR research group, led by Dr. Frank Houghton comprises researchers and principle investigator from the Department of Business and Humanities whose work involves investigations into impacts to societal health.

LOSS AND GRIEF GROUP

The Loss and Grief Research Group, led by Jennifer Stritch focuses research efforts into the experiences of loss and grief across the lifespan for individuals and social groups (both death-related and non-death related).

Each research centre and group were awarded LIT Postgraduate Scholarships within the reporting period in order to build research on activity within the centres and groups through postgraduate research. The structure of the call allowed each centre two postgraduate students and each group one, student capacity was determined by the supervision capacity (number of academic staff members) within each of the individual centres and groups.

ACORN and Shannon Applied Biotechnology Centre continued to focus on their research collaborations with industry and also experienced an increase in their national and international profile through the delivery of national and international projects.

ACORN RESEARCH GROUP

The TEMPO Project (Total Energy Management for Production Operations) held a free one day informative event on Total Energy Management in Industry and ISO50001 Implementation in July 2013 with input from industry leaders including Depuy, Dalkia, GlaxoSmithKlein, the Tyndall Institute and Cranfield University. A workshop on the implementation of ISO50001 was offered by members of the TEMPO Project and was extremely well received by those that attended.

A host of innovation vouchers were completed by the research staff and various innovation partnership and other research projects moved successfully into the next stage with approval from Enterprise Ireland. There was also a good uptake on postgraduate positions with new research postgraduates joining the Centre in areas such as facilities engineering, cyber physical systems and wave energy.

SHANNON APPLIED BIOTECHNOLOGY CENTRE (ABC)

Following a notification that Shannon ABC was successful in the Stage 1 application of the Technology Gateways funding programme in July 2012 and a subsequent invitation to submit a Stage 2 full Technology Gateway application. Shannon ABC was successful in their Enterprise Ireland Technology Gateway application in January 2013.

Shannon ABC's coordination of the Framework 7 project entitled "BAMMBO" (Biologically Active Molecules of Marine Based Origin) continued very successfully and has currently passed half way through with deliverables and milestones being met as per project key performance indicators.

The core work at Shannon Applied Biotechnology Centre situated in the Harnett Enterprise Centre, continued with the Post-Doctoral Scientist working on anti-oxidant and antimicrobial biomolecules identified in Shannon ABC waste streams. Shannon ABC continues to work with SME's and multinational companies through Innovation Voucher funding and contract research projects addressing specific biotechnological problems or needs of specific companies. The Shannon ABC Sensory Panel has grown in strength, particularly with the establishment of the Food Research and Development Centre and provides an invaluable service for SMEs.

Shannon ABC successfully completed an Enterprise Ireland funded Innovation partnership project, 'Environmentally sustainable organic processes for the enclosed production of omega-3 polyunsaturated fatty acids (PUFA's) and carotenoids (e.g. astaxanthin) from microalgae' with an Irish microalgal culturing company, Algae Health in December 2012. Following the success of the Innovation Partnership Shannon ABC has entered into further contract research activities with AlgaeHealth signifying the strength of the relationship that exists between LIT and Industry.

Shannon ABC's successful second Innovation Partnership at LIT, in May 2012 with Lifes2Good is progressing well and is expected to be completed in early 2014. Shannon ABC successfully applied for a further two Enterprise Ireland funded Innovation Partnerships in July 2013 entitled, 'Bioactivity Profiling and Cell Culture Analysis of Peat Based Skincare products' and 'New Product Development of Testing Standards for the Food Industry' with Ógra Skin Ltd and Reagecon Diagnostics Ltd, respectively. Ógra Skincare manufacture and distribute a range of peat based skincare products primarily through 4 star and 5 star spas. Shannon ABC successfully completed two Innovation Vouchers for Ógra Skincare (in 2010 and 2012) for screening of their raw material for anti-oxidant and anti-microbial activity and to generate a bioactive profile; both of which provided a strong basis of knowledge for the company as well as providing the groundwork for a subsequent R&D relationship. The Innovation Partnership will allow Shannon ABC to generate an overall biological fingerprint to determine individual product components. Reagecon and LIT have an on-going dialogue since Reagecon instigated its R&D programme in early 2011. Shannon ABC will address the statement below from the Institute of Reference Materials and Measurements in terms of Food Contact Materials by producing a suite of high measure of certainty standards for use in the food sector, with potential application in parallel sectors:

'The competitiveness of the European economy and the smooth functioning of international trade depend very much on reliable measurements, which eliminate the need to duplicate or dispute testing data. Accurate and reliable measurements also enhance our quality of life – delivering better healthcare, safer food and a cleaner environment'.

A Commercialisation Fund feasibility grant was awarded in January 2013. The project proposed to develop an antioxidant extracts from low value seafood by-products to be used in the preservation of fish, meat and poultry products. Fish antioxidants are known to comprise of antioxidant enzymes such as catalase, glutathione peroxidase, superoxide dismutase, antioxidant vitamins such as vitamin C, Vitamin E, different types of antioxidant free amino acids histidine, cystine including taurine, and other compounds such as glutathione, Coenzyme Q10, anserine, carnosine, uric acid etc. As it is also known that natural antioxidants exert synergistic effects, an antioxidant mix/cocktail will therefore be more efficient than a single antioxidant. Preliminary results have shown seafood by-product extracts to possess higher oxygen radical absorbance capacity (ORAC) value than commercial antioxidants such as ascorbic acid and glutathione.

In March 2013 Shannon ABC hosted their annual Open Innovation Conference at IT Tralee and was attended by representatives of industry, third level institutes and various state bodies including Enterprise Ireland, Institutes of Technology, Ireland, the Industry

Research and Development Group and many more. The event offered a great networking opportunity for attendees, both with research providers and state bodies, but also with other industry representatives, often from quite different sectors.

The event was opened with a welcome from Dr. Oliver Murphy (President of IT Tralee) and an address from the Minister of State for Research and innovation, Mr. Sean Sherlock, as well as opening comments from Dr. Tim Yeomans, Shannon ABC Centre Manager.

The final meeting of the EU funded BAMMBO (€4.2 Million) consortium took place at LIT in February with a public event detailing the project outcomes and technology offerings also presented In Limerick at an event attended by over 100 delegates. The project has been an excellent success with a number of publications/patents/IDF's and technology offerings made available.

CELLS RESEARCH GROUP

A consortium of 10 partners lead by LIT was gathered together by Prof. Gary Stutte of the CELLS Research Centre for the submission of a proposal to the EU's FP7 funding Programme under the call entitled KBBE 2013.3.1-01: Plant High Value Products from Discovery to Final Product. The consortium was made up of institute and industry partners from 6 countries and is listed below.

Participant organisation name	Country
Limerick Institute of Technology	Ireland
Instituto Politécnico de Bragança	Portugal
Axeb Biotech	Spain
Heliospectra AB	Sweden
M. Ferreira & Filhas LDA	Portugal
Justus-Liebig Universität Geiessen	Germany
Universidade de Santiago de Compostela	Spain
Universidade de Santiago de Compostela	Spain
Innovacio I Recerca Industrial I Sostenible SL	Spain
Norges Teknisk-Naturvitenskapeuge Univerrsitet	Norway
Nutrimentos Vegetales SA de CV	Mexico

An application was submitted to the FP7 funding programme within the reporting period. The ASTER consortium recognised that Tagetes are an under-exploited plant genus which the literature points to as being an untapped source of natural plant high value products (PHVPs). Tagetes Two Tagetes species, T. erecta and T. patula are extensively grown for their ornamental value, and T. lucida for its culinary value. Although rich in PHVPs, only T. erecta and T. minuta are commercially grown as a source of these compounds. The flower petals of T.erecta are a natural source of yellow pigments and the vegetation of T. minuta a source of essential oil. The processing of Tagetes for carotenoid pigments is a multinational industry supplying much of the global market and competition limits industrial development in Europe. ASTER recognised the global nature of the PHVP and bio-product industry and accepts that the bottlenecks such as unstable source of Tagetes flowers, variable yield of field grown Tagetes and variable yield of PHVPs under different environmental conditions must be overcome where production is occurring. ASTER has recruited Nutrimentos Vegetales SA de CV (Nuvesa), a supplier of nutrients and a consultant to growers in Mexico, to supply Tagetes, as well as evaluate the ASTER technology under commercial production conditions. Nuvesa allows ASTER to leverage existing linkages between the growing, processing and distribution networks between EU and Central America. Current processing of Tagetes relies on organic solvents and generates tonnes of PHVP-rich residual waste material1. ASTER undertakes an integrated, comprehensive approach to the discovery of new high value products. The project will develop technology for diversified agriculture, expanding markets and the energy efficiency necessary to achieve "smart, sustainable and inclusive growth" envisioned in the Europe Horizon 2020 Strategy.

SCHOOL OF THE BUILT ENVIRONMENT

During the academic year 2012-13 the Department was successful in establishing the BETER (Built Environment Technology and Educational Research) research group, comprising of five academic staff. One of the BETER researchers was involved in the LIT Campus Development – Guide for Project Promoters & User Groups. In addition, the BETER group (Paul Greaney) is linked to the development of an R&D project in CIM (Campus Information Modelling) for LIT in collaboration with LIT Estates (Sam Hayden), and the office of Vice President for Corporate Services and Capital Development. This work is ongoing into the 2013-14 academic year and beyond. Another BETER researcher (Dr. Rita Scully) completed her PhD thesis in 2012 titled 'An Implementation Roadmap for Knowledge Sharing for Small and Micro Companies (SMC) in Ireland'. In addition Dr. Scully produced papers in two conferences:

- Scully, Underwood, Khosrowshahi, Accelerating the Implementation of BIM by Integrating the Developments made in Knowledge Management – An Irish Construction Industry Perspective, Pages 164 – 175, UK Academic Conference on (Building Information Modelling) BIM, Newcastle-upon-Tyne, 5 – 7 September 2012.

- Scully. R, Accelerating the Implementation of BIM by Integrating the Developments made in Knowledge Management – An Irish Construction Industry Perspective, UK Academic Conference on (Building Information Modelling) BIM, Newcastle-upon-Tyne, 5 – 7 September 2012.

Together with a number industry partners (MARK AIR, GE Sensing, Active Energy Control, Glasetech, Bgreen, and Munster HRV) a member of staff (David Honan) is leading a research project into energy usage/efficiency, lighting, comfort and air quality controls in classrooms. This project commenced at a test site St Flannans College in Ennis. The data is currently flowing from this and it is available to the key stake holders through a cloud hosted web portal. David also completed an MSc thesis titled 'The future of ESCOs in Ireland'.

A number of staff are involved in Innovation Voucher initiatives which are identified within the Research Report, and three members of staff are registered for PhD's.

LIT TIPPERARY SCHOOL

SERVE: This project (Sustainable Energy in a Rural Village Environment) that was run in conjunction with a number of national and international partners including the TEA, North Tipperary County Council and SPIL, the Cloughjordan Eco-village company and continued during 2012.

The programme involved assistance with the installation of renewable energy projects (particularly the district heating system in Cloughjordan and the Biomass boiler in Gurteen) and the retro-fitting of houses and other buildings with energy saving and management systems.

A key part of the project was the gathering of data regarding energy use in the participating buildings and this has produced a major body of accurate data that is being used in a lot of contexts. The project also involved socio-economic analysis carried out by one of the international partners.

SERVE is one of only two CONCERTO projects that has been completed on time and on budget. It has also received a number of awards. LIT was the Scientific Coordinators of the project.

SUSTAINCO: This is a follow-on from SERVE with some of the same partners which commenced towards the end of 2012. SUSTAINCO aims to support ambitious European vision for the energy performance of its buildings. By 2020 all new buildings shall be Nearly Zero Energy Buildings (NZEB), with intermediate targets by 2015. The project will build capacity within the partner countries through exposure to best practice (from CONCERTO and other projects), supporting integrated approaches to design and retrofitting of buildings and building capacity in rural regions to engage in the Covenant of Mayors.

An important activity of the SUSTAINCO project will be to increase the visibility of front-runners, for both new build and/or renovation, with the aim of capacity and confidence building in the public sector.

ENDURANCE: ENDURANCE aims to build an effective, European-wide structure to support the establishment and implementation of Sustainable Urban Mobility Plans. In order to achieve this, it aims to make the efforts of many European projects and programmes endure by channelling their efforts into a common structure, by filling the gaps and by making these efforts endure beyond the end of the projects.

This proposal was accepted towards the end of 2012 and is now in negotiation.

BUSI: This project continued in 2012. BUILD UP Skills is an EU initiative to improve the qualification and skills of Europe's building workers which are essential to build, equip and renovate buildings of high energy performance. The Initiative focuses on continuing education of craftsmen and other on-site building workers.

The Irish part of the project is being led by LIT with many partners. The outputs from the project will;

- Outline the current range of education and training programmes available
- Identify the gaps that exist in relation to training provision/skills available and requirements to meet 2020 energy targets
- Deliver a roadmap for the future which will identify measures to overcome barriers and skill gaps in the various professions to meet the 2020 targets in the building sector
- Embed training on intelligent energy solutions through changes in the mainstream curricula and practice
- Put in place the necessary measures to ensure that the added value of a more highly qualified workforce is recognised and the use of qualified workers is incentivised or made obligatory.

National Rural Network: This project continues to be implemented by the Development Unit in behalf of the Government. The project is valued at €450,000 per annum and involves a variety of case studies, research projects, website maintenance, an Annual Conference, forum meetings and participation in international events. The participants are Ciaran Lynch, Paula Briody and John Kennedy with the assistance of Pat Bogue, an external contractor.

Limerick and Clare Sports and Physical Recreation Strategy: This work was commissioned by Limerick and Clare Country Councils, Limerick City Council and the Mid-West Regional Authority. This work was on-going from January to August 2012 with the main body of the work being carried out by Ciaran Lynch. The work involves the development of a Strategy and the carrying out of a Strategic Environmental Assessment.

Ballyhoura Community Development Research: This project is being carried out by Catherine Corcoran and Ciaran Lynch and is aimed at helping Ballyhoura to refine its participatory community planning model. The project is focused on Charleville and Knocklong and continued during 2012.

INFORMATION TECHNOLOGY

Innovation Vouchers funded by Enterprise Ireland were initiated with two regional companies, ROCG More Effective Consulting (Tipperary) and Great Scott Communications (Limerick).

Three students were conferred with Masters Awards from the Department of Information Technology in October 2013 for the following thesis titles:

- MEng – Real-time and Transparent Capture of Ballet Papers for E-voting Systems
- MSc - Accelerating Sequential Computer Vision Algorithms using Commodity Parallel Hardware
- MSc - End-User Trainable Machine Vision Systems

BUSINESS AND HUMANITIES

Currently, there are 8 postgraduate by research students in the School of Business and Humanities. The following list details the primary research activities within the School;

Current researchers

- Feb 2013 - Feb 2015: Marie Taylor researching Community Development and its corresponding relevance for the Hunt Museum, Limerick. This thesis intends to explore the contribution of players from within the community within specific case study examples such as the Hunt Museum. (LIT/Hunt Scholarship 2013)
- Oct 2012 - Oct 2014: Jamie Meehan undertaking collaborative research with the Limerick Chamber of Commerce as part of the Limerick Chamber Bicentennial Scholarship 2012 focusing on research in the areas of entrepreneurship, enterprise development and franchising.
- Oct 2012 - Oct 2014: Adrian Bane is under taking culinary research with a working title 'The Place of Food in Irish Society. This is the first MA (by research) for LIT within the culinary discipline and reflects the expanding research supervisors within the department while also emphasising the significance of food in culture. This research seeks to explore Irelands food related behaviour and attitudes. It analyses the extent to which (if any) culture influences observed similarities and differences in the context of food consumption and also assess food consumption patterns across selected market segments.
- Oct 2012 – Oct 2013: Annie Cowhey is undertaking research in the area of Social Media as it pertains to the tourism industry.
- Oct 2011 – TBA: Billy Breen is researching in the area of Business/Marketing on a part time basis as part fulfilment for an MBS.
- Oct 2011 - Oct 2013: Laura Rougheen is jointly supervised by a colleague from LSAD and the Department of Business as the area of research is multidisciplinary. This research incorporates both the discipline of Marketing and Art.
- Oct 2011- Oct 2013: Sharon Kiely due to present her thesis as part fulfilment for an MA (by research) entitled: An evaluation of county Clare's current brand used in the promotion of its tourism product.
- Oct 2011 - TBA: Seoirse Bulfin researching in the area of Sports Psychology and due to present his thesis as part fulfilment for the award of MA (by research) in October 2013/14.

Most recent MA awards:

- Oct 2013: Jillian Robinson due to present her thesis as part fulfilment for an MA (by research) entitled: An Assessment of the Economic Contribution of Tourism to the Ballyhoura Region.

RESEARCH DEVELOPMENTS

Research activity across LIT continued to rise this year. Every School and Department has seen an increase in postgraduate student numbers and research activity by LIT lecturing staff. There are currently 83 registered postgraduate students and this year there were 10 graduations – three in the Department of Applied Science including two PhDs, one in the Department of Humanities, three in the Department of Information Technology and three in Limerick School of Art and Design.

The following list of Research Degree Programmes currently being undertaken by LIT postgraduate students highlight the diverse range of research topics being studied by postgraduate students at Master's and PhD level.

School of Art and Design

- Shinnors Scholarship in Curatorial Studies.
- Enunciating the Non Verbal: An investigation into the therapeutic values of Equine Assisted Therapy/Learning and the development of audio visual enhancement tools.
- Almost Nothing.
- Curatorial research with VISUAL Centre for Contemporary Art, Carlow.
- MA in Photography and Lens Based Media.
- Exploration of Self-Imposed Seclusion.
- The Self in Society.
- An investigation into certain dynamics influencing the international contemporary art market.
- An artistic investigation into the culture of Folklore, Superstition and Oral Storytelling in contemporary art practice.
- Shinnors Scholarship in Curatorial Studies.
- How can a student centred, flexible programme model, of open and distance learning, effectively deliver third level Art and Design Education, to meet the needs of contemporary non-traditional learners?
- The functional relationship between Art and Everyday: Socially engaged methodologies of the vernacular voice in creative intervention. An enquiry through art and design formulating examples of practice in citizen responses to place.
- Working Title: Design and Product in the Context of Irish Identity.
- Dereliction and Resurrection: The Limerick Sailors Home.
- Perception and Cognition in Social Contexts, with Particular Reference to Limerick and Quimper's Cultural Exchange; the Twinning Process. A sense of Participation in Europe?
- Culture, Consciousness and Self- Awareness.
- Acouscenic Listening; towards the development of a Sonically Engaged Collaborative Sound Art Practice.
- WT: Is it the influence of folklore that gives Irish Gothic its distinctive voice? A research and practice-led enquiry into the intersections between Gothic and folklore in Irish contemporary art practice.
- The Michael O'Connor Poster Archive.
- Phenomenology of Other Spaces.

School of the Built Environment

- Potable Water Distribution Network Model for Quality and Operations Management.
- Evaluation of combined ground based positioning and satellite positioning systems versus LiDAR for highway planning, location and design.
- A Critical Analysis of the Irish Government's Stance on Sustainable Development Focusing on Green Roofs and Living Walls Construction.
- LiDAR for engineering projects evaluating appropriate use.

School of Business and Humanities

Department of Humanities

- A community development approach to heritage.
- An Investigation of the Experience of Loss and Grief for Grandparents Raising Grandchildren.
- Constructions of Rape in Irish Tabloid Media.
- Devising a competency based model of social care training based on active learning strategies.
- The Psycho-Social benefit of Sport to the Individual and Group, paying close attention to areas of Economic and Social Misfortune.
- Identifying a future role for the smaller market towns of Ireland.

Department of Business Management

- Enterprise and Investment Clusters and City Branding.
- Role of Social Media in the expansion of sales in the business to business market.
- Examining the impact of the National Franchise Centre on enterprise development in Limerick City.

Department of Financial and Professional Studies

- Tourism Marketing.
- An evaluation of County Clare's current tourism destination brand.

School of Science, Engineering and Information Technology

Department of Mechanical Engineering

- Infrared spectrophotometric and X-ray fluorescence analysis of oil samples for predictive maintenance.
- The devlopment of a group energy system for industrial parks.
- The Design and Manufacture of a Test Bed for Anti-reflective glass treatment process.

Department of Electrical Engineering

- Investigation of Electrical Grid Infrastructure for Integrated Renewable Energy Generation on Industrial Sites.
- Investigation of voltage control and power quality on energy efficiency.
- Development of an Improved Mechanical Energy Transfer Interface for a Commercial Wave Energy Converter (WEC).
- Tourism Marketing.
- An evaluation of County Clare's current tourism destination brand.
- Optimised cycle time execution for industrial controllers in a high speed manufacturing environment.
- Evolutionary Algorithms for Solid State Devices
- Integrating cyber-physical systems into dynamic energy models for industrial facilities.
- A SCADA Based Energy Mangement System incorporating small scale renewable energy sources for industrial and commercial installations.
- Hybrid renewable energy control system
- Proof of concept of a NAND Flash Tester.

Department of Information Technology

- Development of a Secure Mobile Ticket Issuing System for Parking Violations.
- Cost benefit & viability analysis of demand side management and pumped storage on the Single Electricity Market.

Department of Applied Science

- The Assessment of Evolved Volatile Organic Compounds, as an indication of Sphagnum Growth and Bimolecular Content.
- Extraction and Characterisation of Pyrrolizidine Alkaloids (PA's)from Senecio Jacobea (Ragwort) with application to the food and health industry.
- The Determination of Triterpenoids in Mono-floral honey.
- Regenerable Absorbants: The Contaminant and Moisture Control.
- Establishment of Irish Marine Cyanobacteriak Germplasm: Molecular Characterisation and Bioactive Properties.
- The effects of light on the production of anthocyanins in red leaf lettuce.
- Mining of fungi found in Irish habitats for pharmaceutically important compounds.
- To investigate the feasibility of using Molecularly Imprinted Polymerss to detect drugs of abuse in saliva samples.
- Thermophillic Enzyme Systems for Bioconversions
- Extraction and Characterisation of antioxidant polyphenols from selected Sphagnum Moss Species; S. magellanicum, S. cuspidatum, S. recurvum.
- Mutulaistic Plant/Microbe Relationships under Spaceflight Conditions.
- A study of the presence of biological material deposited by secondary transfer followed by identification of the body fluid of Mrna profiling.
- Green biosynthesis of metallic nanoparticles using extracellular systems of thermophilic fungi.
- ABA & Oxygen Cross Talk.
- Organic vs. Conventional Foods: A bio-fingerprint
- Developing an interactive engagement technique for enhancing the teaching and learning of first year practical physics usinga range of technologies, including a classroom response system.
- Development Methods for the detection of drugs used in sports.
- The Development of Methods in Shannon ABC for the Detection and Quantitation of Sugars.
- A study of the Benefits and Concerns of Water Recycling and Conservation in Ireland linking with the Water Framework Directive.
- Gravitational Effect on Secondary Metabolisim
- An environmental forensic investigation into the levels of disinfectant by-products and organic compounds in drinking water supplied.
- Genetic Analysis of the Irish Honey Bee.

- Investigation of the Medicinal Bioactive Content of Wheatgrass.
- Microgravity Induced Phytohormones.
- The Irish Consumer - A Comprehensive Insight into Irish Adult Food Preferences that Drive Choice, Expectation and Size.
- Evaluation of Marine Diatoms for Biofuel Production
- The Energy and Carbon Nexus: Can energy management systems and life cycle assessments (focusing on the impact category 'climate change') be integrated to support energy and carbon performance improvement plans at production based organisations?
- Evaluation of Irish marine cyanobacteria for sunscreen compounds: their growth optimisation and genetic improvement.
- Development of LCMS Methods for the Detection of Drugs in Sport.

LIT Tipperary

Department of Technology

- Identifying a future role for the smaller market towns of Ireland.

RESEARCH FUNDING SECURED

Project Title	School/Dept.	Amount €	Month	Funding Source	Company	Principal Investigator
EI Innovation Voucher 2012 2232 Edelicious Family Food	Shannon ABC	5,000	Oct-12	Enterprise Ireland	Edelicious Family Food	Patrick Murray
EI Innovation Voucher 2011 3112 ROCG More Effective Consulting Ltd	Department of Information Technology	5,000	Oct-12	Enterprise Ireland	ROCG More Effective Consulting	Gerry Guinane
TE Laboratories (IV to be agreed)	Shannon ABC	5,000	Nov-12	Enterprise Ireland	TE Laboratories	Patrick Murray
IRCSET The Isolation and quantification of number of bioactive components in Irish honey samples using validated methods inc LCMS and GCMS	Department of Applied Science	72,000	Nov-12	Irish Research Council		Michelle McKeon
IRCSET Green Biosynthesis of metallic nanoparticles using extracellular systems of thermophilic fungi	Department of Applied Science	72,000	Nov-12	Irish Research Council		Patrick Murray
GRO Limerick Chamber Bicentennial Scholarship 2012	Department of Business Management	12,507	Nov-12	LIT		James Griffin
GRO Bursary Establishment of Irish Marine cyanobacterial germplasm	Department of Applied Science	4,507	Nov-12	LIT		Sushanta Kumar Saha
GRO Bursary The determination of triterpenoids in Irish monofloral honey	Department of Applied Science	4,507	Nov-12	LIT		Michael Geary
GRO Bursary A study of the benefits and concerns of water recycling and conservation in Ireland linking with the water framework directive	Department of Applied Science	4,507	Nov-12	LIT		Josephine Treacy
GRO Bursary The use of social media as an innovative marketing tool within the Irish tourism and hospitality industry	Department of Humanities	4,507	Nov-12	LIT		Sinead O Leary
GRO Bursary Development of a secure mobile ticket issuing system for parking violations	Department of Information Technology	4,507	Nov-12	LIT		Ken Oakley
GRO Bursary The place of food in Irish society	Department of Humanities	4,507	Nov-12	LIT		Catriona Murphy
GRO Bursary Infared spectrophotometric and X-ray fluorescence analysis of oil samples for predictive maintenance	Department of Mechanical and Automobile Engineering	4,507	Nov-12	LIT		Michael Daragh Naughton

Project Title	School/Dept.	Amount €	Month	Funding Source	Company	Principal Investigator
GRO Bursary Mining of fungi found in Irish habitats for pharmaceutically important compounds	Department of Applied Science	4,507	Nov-12	LIT		Catherine Collins
GRO Bursary An artistic investigation into the culture of folklore, superstition and oral storytelling in contemporary art practice	Limerick School of Art & Design	4,507	Nov-12	LIT		Breda Lynch
GRO Bursary Exploration of self-imposed seclusion	Limerick School of Art & Design	4,507	Nov-12	LIT		Nigel Oxley
EI CF/2012/2643 Artificial intelligent based third party intrusion detection AIBIDS	Department of Mechanical and Automobile Engineering	137,143	Dec-12	Enterprise Ireland		Michael Daragh Naughton
EI Innovation Voucher 2012 3087 Sean Moloney	Department of Mechanical and Automobile Engineering	5,000	Dec-12	Enterprise Ireland	Sean Moloney & Son Developments Ltd	Michael Daragh Naughton
EI ASTER Co-ordination grant CS120655 1A	Shannon ABC	12,500	Dec-12	Enterprise Ireland		Gary Stutte
EI Innovation Voucher 2012 3178 Emerald Agri Products	Department of Mechanical and Automobile Engineering	5,000	Dec-12	Enterprise Ireland	Emerald Agri Products	Michael Daragh Naughton
EI Innovation Voucher 2012 3200 The Bubble Tea Company	Department of Applied Science	5,000	Dec-12	Enterprise Ireland	The Bubble Tea Co.	Tracey Larkin
GRO Bursary MA in Photography and Lens Based Media	Limerick School of Art & Design	4,507	Dec-12	LIT		Dara Waldron
Shannon ABC TG 2012 0107B Technology Gateways Programme 2012	Shannon ABC	520,169	Jan-13	Enterprise Ireland		Fergal Barry /Tim Yeomans
GRO Bursary Creation of a dynamic interactive model of residential energy consumption Smart DEAP	Department of Technology	4,507	Jan-13	LIT		Seamus Hoyne
GRO Bursary Quantitative Analysis of the impact that smart and intuitive heating controls have on reducing domestic energy consumption	Department of Technology	4,507	Jan-13	LIT		Seamus Hoyne
GRO Bursary Design of an integrated marketing communication strategy and plan for LIT Tipperary	Department of Business and Sport	4,507	Jan-13	LIT		Fiona Browne
GRO Bursary Fish Protein hydrolysates as a source of peptone for culturing industrially relevant probiotic lactobacillus strains	Shannon ABC	4,507	Jan-13	LIT		Thippeswamy Sannaveerappa
GRO Bursary Development of high-throughput antioxidant assays using automatic liquid handling system	Shannon ABC	4,507	Jan-13	LIT		Thippeswamy Sannaveerappa
GRO Bursary The future quantity surveying role in BIM enabled projects	Department of Built Environment	4,507	Jan-13	LIT		Rita Scully

Project Title	School/Dept.	Amount €	Month	Funding Source	Company	Principal Investigator
GRO Bursary Accelerating the implementation of BIM in the construction industry in Ireland	Department of Built Environment	4,507	Jan-13	LIT		Rita Scully
GRO Bursary Terrain corrections in gravimetry and gradometry for GOCE satellite missions Crustal Thickness	Department of Built Environment	4,507	Jan-13	LIT		Sajjad Sajjadi
GRO Bursary Implementation of Standard Method of Measurements in public procured building in Ireland	Department of Built Environment	4,507	Jan-13	LIT		Maria O Kelly
GRO Bursary Strategic use of IT in Irish Construction companies	Department of Built Environment	4,507	Jan-13	LIT		Maria O Kelly
EI CF20122784Y Feasibility Study Production of potent natural antioxidant mix from seafood by-products commercialisation fund	Shannon ABC	12,700	Jan-13	Enterprise Ireland		Siobhan Moane/ Tim Yeomans
Carbery Cheese Contract Research	Department of Applied Science	2,593	Jan-13	Carbery Cheese	Carbery Cheese	Tracey Fahey
EI Innovation Voucher 2012 1171 Amideon Systems	Department of Electrical and Electronic Engineering	5,000	Feb-13	Enterprise Ireland	Amideon Systems Ltd	David Sims
GRO Bursary Electrical Grid Infrastructure & Integrated Renewable Generation	Department of Electrical and Electronic Engineering	4,507	Feb-13	LIT		Gerald O Farrell
GRO Bursary Power Quality & Efficiency	Department of Electrical and Electronic Engineering	4,507	Feb-13	LIT		Gerald O Farrell
GRO Bursary Integrating cyber-physical systems into dynamic energy models for industrial facilities	Department of Electrical and Electronic Engineering	4,507	Feb-13	LIT		John Cosgrove Gerald Farrell
EI Innovation Voucher 2012 033 Student Programmes Ireland Ltd	Limerick School of Art & Design	5,000	Feb-13	Enterprise Ireland	Student Programmes Ireland Ltd	Mark O Leary
GRO Bursary Limerick Chamber Examination of the investment Clusters globally	Department of Business Management	9,000	Mar-13	LIT		Louise Nugent
EI Innovation Voucher 2012 3133 Margarets Bakery	Department of Humanities	5,000	Apr-13	Enterprise Ireland	Margaret's Bakery	Mark O Leary
EI Innovation Voucher 2013 1244 Egate Ltd	Limerick School of Art & Design	5,000	Apr-13	Enterprise Ireland	Egate Ltd	Mark O Leary
GRO Bursary Community Development	Department of Humanities	12,507	Apr-13	LIT		Catriona Murphy
Antimicrobial testing of glass	Shannon ABC	1,075	Apr-13	DIT		Patrick Murray
EI Innovation Voucher 2012 1241 Great Scott Communications	Department of Information Technology	5,000	May-13	Enterprise Ireland	Great Scott Communications	John Jennings
EI Innovation Voucher 2012 3320 The Dog Dunit Ltd	Department of Mechanical and Automobile Engineering	5,000	May-13	Enterprise Ireland	The Dog Dunit Ltd	Daragh Naughton
EI Innovation Voucher 2012 3218 GL Meats T/A Garretts	Department of Applied Science	5,000	May-13	Enterprise Ireland	Garretts Butchers	Tracey Larkin

Project Title	School/Dept.	Amount €	Month	Funding Source	Company	Principal Investigator
EI Innovation Voucher 2013 1200 Sinead Hanafin & Associates	Limerick School of Art & Design	5,000	May-13	Enterprise Ireland	Dr Sinead Hanafin & Assoc Research Specialists	Mark O Leary
EI Innovation Voucher 2012 1151 Miriam Durack Consultancy	Limerick School of Art & Design	5,000	May-13	Enterprise Ireland	Miriam Durack Consultancy Ltd	Mark O Leary
EI Innovation Voucher 2012 3062 Active Energy	Department of Built Environment	5,000	Jun-13	Enterprise Ireland	Active Energy Control Ltd	David Honan

NEW INDUSTRIAL COLLABORATIONS

The number of companies which LIT supports in terms of research (both regional and national) continues to rise and this year the following companies have joined the long list of industrial collaborators on research projects during the year under review:

School/Dept.	Company
Shannon Applied Biotechnology Centre	Edelicious Family Food
Department of Information Technology	ROCG More Effective Consulting
Shannon Applied Biotechnology Centre	TE Laboratories
Department of Mechanical and Automobile Engineering	Sean Moloney and Son Developments Ltd
Department of Mechanical and Automobile Engineering	Emerald Agri Products
Department of Applied Science	The Bubble Tea Co.
Department of Applied Science	Carbery Cheese
Department of Electrical and Electronic Engineering	Amideon Systems Ltd
School of Art and Design	Student Programmes Ireland Ltd
Department of Humanities	Margaret's Bakery
School of Art and Design	Egate Ltd
Department of Information Technology	Great Scott Communications
Department of Mechanical and Automobile Engineering	The Dog Dunit Ltd
Department of Applied Science	Garrett's Butchers
School of Art and Design	Dr Sinead Hanafin & Assoc Research
School of Art and Design	Miriam Durack Consultancy
Department of Built Environment	Active Energy Control Ltd

QQI VALIDATION

LIT carried out self-assessment exercises in 2011 which formed the basis of an application to QQI for re-approval to carry out research in relevant disciplines. LIT applied for continuing approval in discipline areas which were approved under the 'grandparenting' arrangement of Section 4.4.2 of 'Taught and Research Degree Programme Accreditation Policy and Criteria" (August 2005). Each of the four schools of LIT submitted a self-assessment report (SER) to QQI April 2011 along with a brief summary of the Institute's overall research strategy. The outcome of LIT's application for re-approval is outlined in the below table;

Research Status of all QQI providers who offer research programmes at either Level 9 or Levels 9 and 10. June 2013

Record of Approved Research in LIT at June 2013 (Stage 1)

Record of Accredited Research in LIT at June 2013 (Stage 2)

Record of Delegated Authority Research in LIT at June 2013 (Stage 3)

Institution	Date of QQI Decision	Research at Level 9	Research at Level 10
Limerick Institute of Technology (Approved)	2005 (GC)* 2007 (Tipperary Institute)	• Economics and Business* • Engineering and Technology (Electrical, Electronic, Mechanical, Civil, Built Environment)* • Social Sciences (Social Care)*	• Chemical Sciences, Earth Related Environmental Sciences, Biological Sciences* • Engineering and Technology (Information Technology, Environmental Engineering)* • Computer & Information Science*
Limerick Institute of Technology (Accredited)	2005 June 2013**	• Renewable Energy Control Systems • Art & Design**	• Art & Design**
Limerick Institute of Technology (Delegated Authority)	n/a	n/a	n/a

2005 (GC) * - This related to the Grandparenting Clause under which areas where research had been conducted in institutes prior to the establishment of QQI's Policy on Research Accreditation were deemed to be 'approved' following an evaluation process.

DEVELOPMENT UNIT

Background

As part of the amalgamation of LIT and Tipperary Institute a Tipperary Development Unit was established. The purpose of this unit was to be the Development Office presence in Tipperary and to manage the various Development Projects which were been implemented from within the Tipperary School. These include a range of Renewable Energy projects under IEE as well as community development projects and sustainable transport projects.

During 2012, the function of the Tipperary Development Unit was modified and it was re-named the Development Unit. At the same time the function of the Development Manager – Tipperary was also modified and the function was re-titled as the Development Manager. A significant factor in this modification was the change in the functions of the Development Office to focus on Research, Enterprise, Development and the Foundation activities. These changes started to be put into effect in 2013.

The principal change in the role of the Development Unit was that it was given a remit for certain functions across all of LIT. These include all non-research development projects and consultancy activities. As part of this re-allocation of responsibilities the unit also took over responsibility for the Innovation Voucher work of the Institute.

Finally, in addition to taking on responsibility for such projects on an Institute-wide basis, the Development Unit also provides a support function to the other activities of the Institute in Tipperary and particularly those of the Development Office.

Activities of the Development Unit

During this period the Development Unit based in Thurles undertook a wide range of activities. These included –

- Development Projects.
- Consultancy Projects.
- Networking.
- Operational Responsibility for the Thurles Chamber Enterprise Centre (This is reported on within the Enterprise Section).
- Co-ordination of the LIT input to the development of the Clonmel Research, Development and Enterprise Centre.
- Input of the Tipperary perspective into the research function.
- Co-ordination of Innovation Vouchers.
- Life-Long Learning under the Leonardo Mobility Fund.
- Leading on the Social Enterprise engagement of LIT
- Publication of the bi-annual Research, Enterprise and Development (RED) newsletter .

This report focuses on the development projects and consultancy projects in which the unit was engaged within or close to the relevant period.

Development Projects

SERVE: The SERVE (Sustainable Energy for the Rural Village Environment) Project is funded under the EU CONCERTO Programme with a budget of €10.4m. It was initiated in 2007, and was completed in October 2012. The overall aim of the SERVE project is to create a rural community which is a leading example in both energy efficiency and renewable energy, through the demonstration of best practice and state-of-the-art technologies.

The project has demonstrated a range of sustainable energy actions including energy upgrades for existing dwellings, installation of renewable energy heating systems, development of an Ecovillage in Cloughjordan (Co Tipperary) and the development of a district heating system. LIT Tipperary is the scientific co-ordinator of the project and is also contributing to the socio-economic and training work packages of the programme.

The project objectives comprised of the following:

- Complete refurbishment actions on 400 buildings in SERVE Region to bring their energy performance in line with 2006 Building Regulations (40% reduction in energy use).
- Install 350 renewable energy systems (wood pellet systems, solar etc.) in existing buildings to increase renewable energy supply by 200%.
- Construct 132 units in an Eco-Village in Cloughjordan with energy performance 30% better than the 2006 Building Regulations.
- Construct Ireland's first large scale District Heating system based on wood and solar in the Eco-Village.
- Complete a wide range of monitoring and evaluation of energy performance within the SERVE Region.
- Provide training and information within the SERVE Region to stimulate further action in the field of sustainable energy.
- Complete socio-economic analysis of the impacts of the actions within the SERVE Region.

To close the project a SERVE Energy Week was held from 1-5 October, 2012. Events were organised by the LIT Development Unit and included site visits for over 70 delegates, 4 workshops for over 85 delegates and the final conference with an attendance of in excess of 80 delegates.

The project has achieved its targets with 93% of the total demonstration actions completed within the project timescale and budget. The project also received a number of international awards.

SUSTAINCO: This is a follow-on from SERVE with some of the same partners and commenced towards the end of 2012. SUSTAINCO aims to support ambitious European vision for the energy performance of its buildings. By 2020 all new buildings shall be Nearly Zero Energy Buildings (NZEB), with intermediate targets by 2015. The project will build capacity within the partner countries through exposure to best practice (from CONCERTO and other projects), supporting integrated approaches to design and retrofitting of buildings and building capacity in rural regions to engage in the Covenant of Mayors.

An important activity of the SUSTAINCO project will be to increase the visibility of front-runners, for both new build and/or renovation, with the aim of capacity and confidence building in the public sector.

During 2013-2013 the Sustainco project produced a variety of different outputs including a training template and training and education resources for Near-Zero energy buildings.

ENDURANCE: ENDURANCE aims to build an effective, European-wide structure to support the establishment and implementation of Sustainable Urban Mobility Plans. In order to achieve this, it aims to make the efforts of many European projects and programmes enduring by channelling their efforts into a common structure, by filling the gaps and by making these efforts enduring beyond the end of the projects.

The Endurance project commenced operation in 2012 and initial contacts were made with the five cities in Ireland as well as the National Transport Authority. While the changes in Local Government have created a difficult environment for this project, it is anticipated that significant progress will be made on implementing the project's activities during 2014.

BUSI: This project was completed in 2013. BUILD UP Skills is an EU Initiative to improve the qualification and skills of Europe's building workers which are essential to build, equip and renovate buildings of high energy performance. The Initiative focuses on continuing education of craftsmen and other on-site building workers.

The Irish part of the project was led by LIT with many partners. The outputs from the project included the following; -

- An outline of the current range of education and training programmes available to the sector in Ireland.
- A review of the gaps that exist in relation to training provision/skills available and requirements to meet 2020 energy targets.
- A roadmap for the future which will identify measures to overcome barriers and skill gaps in the various professions to meet the 2020 targets in the building sector.
- A mbed training on intelligent energy solutions through changes in the mainstream curricula and practice.
- Put in place the necessary measures to ensure that the added value of a more highly qualified workforce is recognised and the use of qualified workers is incentivised or made obligatory.

Time to Change Programme: This programme continued in the period covered by this report and as of now over 350 participants have completed the innovative programme which is aimed at people who are unemployed who wish to return to education, employment or start their own business. This programme is delivered by LIT-Tipperary. The programme is funded by SECAD (South East Area Development) and delivered locally across several venues in Cobh, Ballincollig, Youghal and Midelton.

The programme includes the following; identifying skills and resources of each participant; building self-confidence, personal responsibility and individual power, helping participants to identify areas for development, helping participants to set a training or an opportunities route for themselves, exploring participant's vision for their lives, helping participants develop their own goals, helping participants to reach those goals.

This video captures the Time to Change spirit in action: http://vimeo.com/51799558

CESBEM: The CESBEM IV Project (COMPETENCE ENHANCEMENT IN SUSTAINABLE BUILDING THROUGH EUROPEAN MOBILITY) evolved from the successful CESBEM I project run in 2009/10 and CESBEM II project run in 2010/2011 and CESBEM III Project run in 2012/2013. It is aimed at craftspeople in the Construction Sector to provide up skilling in the field of energy efficiency in buildings. Approximately 230 people completed projects I, II & II. The project is supported by Leargas, under the European Union's Leonardo da Vinci Mobility programme.

CESBEM IV consists of the following training (free of charge) for participants –

- 40 Hours German Language & Cultural Training at LIT
- Two weeks Technical Training with Sustainable Experts in KOMZET in Germany (Centre of Vocational Excellence in Energy Efficiency in Buildings)

The project has been developed because

- In Ireland craftspeople receive limited specific training on sustainable building during their apprenticeship. The CESBEM Programme links the training and practical demonstration of sustainable building.
- The Irish White Paper on Sustainable Energy commits to 20% savings in energy consumption by 2020 and the National Energy Efficiency Action Plan identifies the residential sector as providing the greatest share of these savings.
- New Buildings regulations in 2008 and 2011 require highly efficient buildings; therefore good construction techniques are vital. It is aimed to move to a Near Zero Build Standard.
- The 2008 FÁS Irish Labour Market Review noted 'The construction sector has seen the largest number of job losses,' and that training was required to up skill people in this field.
- Energy Rating of Buildings is now a part of construction sector in Ireland so increased knowledge in the area represents a benefit.

PRINCIPAL ACTIONS: The CESBEM IV Project aimed to:

- Enhance knowledge in the field of sustainable building of people in the construction sector in Ireland
- Develop new skills in the field of sustainable building (e.g. air pressure testing) for participants
- Expose participants to working practices and specifications in German construction related companies (timber production, window production, prefabricated house manufacturer etc.),
- Compare and contrast Irish and German Building standards and regulations
- Increase participants' knowledge of German culture and language.

HEATPLUS: The HEATPlus II Programme was developed because plumbers will be required to have increased knowledge of new heating and ventilation systems which are becoming the norm within both new and retrofitted buildings and follows in from the successful HeatPlus I Programme There are a number of drivers for this change including;

- New Irish dwellings have to achieve energy consumption levels 60% below that of a house built in 2005. This requires advanced heating systems with high efficiencies and dedicated heating control systems. Plumbers traditionally have limited training and exposure to these new advanced heating control systems
- New Irish building regulations requiring 10% of all heat within a building to be provided from renewable energy. These systems will require to be integrated with existing systems
- Increased presence in the Irish market of heating and ventilation systems (HV), mechanical heat recovery systems (MHRV) and passive ventilation systems. The wide range of systems will require plumbers to be able to identify the need for, and plan for installation of, such ventilation systems.

PRINCIPAL ACTIONS: The HEATPlus Project aims to;

- Enhance participants (plumbers) knowledge in the field of sustainable heating and ventilation systems
- Develop new skills in the field of sustainable heating (building physics, air pressure testing, system sizing etc) for participants
- Expose participants to working practices and specifications in German heating and ventilation related companies (solar panels, condensing boilers, air pressure testing, biomass boilers etc.)
- Compare and contrast Irish and German Building standards and regulations
- Increase participants knowledge of German culture and language.

REMSOB: This is another project developed in conjunction with the CESBEM partner in Germany. This project aims to up-skill building professionals in the retro-fitting of multi-story buildings.

A2PBEER: The A2PBEER Project commenced during this period. This is a major project with over 40 partners and a four-year time-span. The objectives of the A2PBEER Project are as follows ;

- To demonstrate that current Near Zero Energy Buildings requirements can be achieved in public buildings through already available, affordable and adaptable technologies.
- To develop, demonstrate and evaluate an innovative systemic retrofitting methodology for Public Building and District and different solutions Kits into the Demo District.
- To develop a new methodology and solutions that would be easily adapted into any climate conditions and any typology of Public Building.

The principal activities of LIT are as follows ;

- Coordinate and manage all project dissemination and knowledge transfer activities to a high level of quality
- Develop and implement training programme which will result in 8 trainers and between 150 and 300 trainees
- Promote the activities and results of the project to all relevant stakeholders at a regional, national and European level
- To carry through transfer of knowledge, seminars and the final conference.

This project is now underway and LIT's first functions (the development of a logo and website) are almost completed.

Qualibuild: Qualibuild is a follow-on project from the BUSI project referred to above. The Qualibuild project was approved in the period covered by this report and commenced in November 2013.

The principal focuses of the Qualibuild project are as follows –

- The target group is craft workers and operatives in the building construction sector. A core principle of the Irish Build Up Skills (BUSI) Roadmap is one of quality building. By focusing on quality building, of which low-energy buildings is a priority theme, this creates greater opportunities for the construction supply chain to take ownership of the issue.
- Road Map Priority Issues
  - Core Knowledge
- The BUILD UP Skills QualiBuild project will address one of the main issues identified within the Irish Build Up Skills (BUSI) Roadmap i.e. all construction workers lack the core knowledge in relation to low energy buildings. The project will;
- Develope a Foundation Energy Skills Programme for the target group
- Implement a Train the Trainers programme to increase the knowledge and competency of trainers involved in construction training.
  - Registration System

- The Roadmap highlighted the need to back up training provision with mechanisms which allow workers to benefit, in the market place, from having taken such training. Building on experiences from other schemes in Ireland, BUILD UP Skills QualiBuild will develop and implement an industry backed Quality Building Training Registration Scheme.
    - Communication Campaign
- The development of a culture within the construction sector which has quality as a core value requires strong communication. BUILD UP Skills QualiBuild will implement a focused, innovative and targeted communication campaign to convince consumers, workers and construction companies of the value of addressing quality when completing low energy building projects. This includes a campaign to develop a common Quality Building language between construction professionals and workers.
- National Roll Out
- Ensuring that the BUSI Roadmap actions are fully integrated into the Irish construction sectors policy and practice requires funding, ownership of actions and additional support measures. The National Roll Out Plan will set a path for the full implementation of the BUSI Roadmap, transfer ownership of BUILD UP Skills QualiBuild outputs to relevant stakeholders and also set objectives for post 2020.
    - Qualification and Training Schemes

The major outputs from BUILD UP Skills QualiBuild in relation to qualification and training will be;

- A Foundation Energy Skills Programme targeted at all construction workers and operatives with content available in hardcopy and on-line
- EQF Level 4 & 5
- 200 people trained
- Nationally validated programme
- Programme structure, content transferred to National Agency at end of project.
- A Train the Trainers programme which will increase the knowledge and competency of trainers involved in construction training in Ireland with content available in hardcopy and on-line.
- EQF Level 5 or 6
- 100 people trained
- Nationally validated programme
- Programme structure, content transferred to National Agency at end of project.

As well as these key actions the following supporting measures will also be pursued ;

- A proposal for a **Continuous Professional Development (CPD) scheme** for trainers in the construction sector.
- A **Quality Building Training Registration System**, driven initially by industry, which will provide a transparent means of demonstrating the level of competency and knowledge craft workers/operatives have in relation to low energy buildings. 2,000 workers registered by month 26 of the project
- A **Quality Building Communications Campaign**, focused on the theme of low energy buildings, which will target all consumers, builders and workers. 10,000 unique visits to web portal and 30 video interviews with relevant stakeholders as part of a Quality Building Communications Campaign
- A **National Roll-Out Plan** which reinforces and ensures the sustainability of the BUSI Roadmap actions, while also addressing actions post-2020. Mobilisation of €1m of additional funding resources by the end of the project for additional training and support activities.

Innovation Vouchers

In 2012 the Development Unit took over responsibility for Innovation Voucher activity within LIT. Yvonne Doyle took the role of IV Administrator .The Unit has developed a number of protocols and forms to facilitate investigators as well as the Finance and HR Departments. During the year it was decided that two funds should be established from the IV overheads to support the research activity of the Institute. Progress on establishing these funds and the guidelines for their implementation was well advanced during 2013. In 2013 . 28 Innovation Vouchers were completed representing an income to the Institute of €182,000.

Consultancy Projects

National Rural Network: This project continued to be implemented by the Development Unit on behalf of the Government during this reporting period. The project is valued at €450,000 per annum and involves a variety of case studies, research projects, website maintenance, an Annual Conference, forum meetings and participation in international events. The participants are Ciaran Lynch, Paula Briody and John Kennedy with the assistance of Pat Bogue an external contractor.

As 2013 was the last year of the network no national conference was held but the Unit worked with the Department of Agriculture Food and the Marine and the Department of the Environment, Community and Local Government on a variety of actions including the following –

- An event for all European Rural Development Directors as part of the Irish Presidency
- Networking events for various Rural Development interest groups
- Consultation Forums for the new Rural Development Programme
- The preparation of the SWOT analysis for this programme.

Limerick and Clare Sports and Physical Recreation Strategy: This work was commissioned by Limerick and Clare Country Councils, Limerick City Council and the Mid-West Regional Authority. The work was commenced in 2012 and was completed in 2013. The report was adopted by the Regional Authority and the three Regional Authorities and was launched in Ennis in August 2013.

Ballyhoura Community Development Research: This project is being carried out by Catherine Corcoran and Ciaran Lynch and is aimed at helping Ballyhoura to refine its participatory community planning model. The project is focused on Charleville and Knocklong and continued during 2013. The project is now nearing completion with both the Charleville and Knocklong plans being launched in 2013.

Support to Limerick Elected Members regarding the Amalgamation of Limerick City and County Councils: This involved the facilitation of Limerick City and County Councillors regarding the development of responses to the Limerick Local Authority Amalgamation and the preparation of submissions to the Local Electoral Area Boundary Review Committee. This work was completed in February 2013 with the submission of proposals to the Electoral Boundary Committee by the Elected Members of Limerick County Council and the Fine Gael Members of Limerick City Council.

Carrying out of a Training Needs Analysis and a Training and Education Provision Report for North Tipperary County Development Board. The Report on the Training and Education Provision in North Tipperary was completed in 2013 and, on the basis of this report, a further report on training needs was commissioned. The work on this report was commenced in 2013.

SWOT Analysis for the ERDF for the S and E and BMW Regional Assemblies: This work was carried out during the latter part of 2013 and was a significant input to the ERDF Strategies for the two Regional Assemblies.

Networking

As part of its work activities the Development Unit participates in a variety of networking activities. This includes the following organisational memberships –

Body	Role	Type
North Tipperary County Development Board	Member	Public Body
South Tipperary County Development Board	Member	Public Body
North Tipperary Traveller Interagency Strategy Steering Group	Member	Public Body
South Tipperary County Development Board LA21 Committee	Chair	Public Body
South Tipperary Volunteer Centre	Secretary	Company
South Tipperary Central Data Unit Committee	Member	Public Body
South Tipperary Economic Programme Management Group	Member	Public Body
North Tipperary Green Enterprise Centre Cloughjordan	Board Member	Company
Kilkee Waterworld	Board Member	Company
North Tipperary Sports Partnership	Chair	Company
Tipperary Energy Agency	Chair	Company
Communities Creating Jobs	Member	Company

In addition the Development Unit is developing relationships with a number of national and regional organisations including Muintir na Tire and Communities Creating Jobs. It is also facilitating research and development work with the HSE.

Projects Active During the Period

Project title	School Dept	Total LIT value €	Contract end date	Funding Source	Principal Investigator
NRN (2011-12)	Dev. Office	450,000	Dec-12	Dept of AFM	C Lynch
Cesbem III	Dev Office	161,980	May-13	Leargas	C Lynch
Heatplus 1	Dev Office	124,956	May-13	Leargas	C Lynch
Cesbem IV	Dev Office	172,575	Nov-13	Leargas	C Lynch
Heatplus 11	Dev Office	172,575	May-14	Leargas	C Lynch
BUSI	Dev Office	118,925	Mar-13	EU	S Hoyne
Sustainco	Dev Office	217,028	2015	EU	S Hoyne
A2PBeer	Dev Office	272,833	2016	EU	S Hoyne
Endurance	Dev Office	79,457	2016	EU	C Lynch
Limerick City County Amalgamation Project	Dev Office	12,000	Feb-2013	Limerick City and County Councils	C Lynch
Limerick/Clare Recreation Strategy	Dev Office	49,000	Aug-2013	Clare County Council	C Lynch
Ballyhoura Community Planning	Dev Office	15,000	Mar-2014	Ballyhoura Community Development	C Lynch
New futures	Dev Office	80,000	Dec-2013	SECAD	C A O Connell
SWOT Analysis for RAs	Dev Office	8,500	Feb - 2014	SERA	C Lynch

Projects Approved But Not Commenced During the Period

Project title	School Dept	Total LIT value €	Contract end date	Funding Source	Principal Investigator
Training Needs Analysis	Dev office	4,500	Mar-2014	North Tipp CDB	C Lynch
Heat Plus III	Dev Office	106,545	Nov-2014	Leargas	C Lynch
Remsob	Dev Office	138,435	Nov-2014	Leargas	C Lynch
Cesbem V	Dev Office	172,575	Nov-2014	Leargas	C Lynch

ENTERPRISE

Enterprise Development & Business Liaison

(A) ENTERPRISE PROGRAMMES

- Total Number of 2013 Programmes Operated in 2013 = 7.
- Total Number of 2013 Participants = 150 (+100 Marketlink).
- Over 150 days of business workshops facilitated
- New Programmes in Development = 3

New Frontiers

Enterprise Ireland's Enterprise Platform Programme was restructured for 2012 under the new brand "New Frontiers" and ran successfully with a second intake in July 2013.

The programme is open to applications from a diversity of sectors including; food and consumer products, information and communication technology, engineering and electronics, medical devices, biotechnology, pharma, digital media, cleantech/renewable energy and eligible internationally traded services. Ideally applicants have the following characteristics:

- Intend establishing a manufacturing or internationally traded services business or a new domestically traded service business with the potential to trade internationally.
- Ambitious and have the capability and commitment needed to develop a sustainable business.
- Growth orientated - planning to achieve turnover greater than €500,000 and create more than five jobs in three to five years time.
- Develop a business that is built upon a strong foundation of innovation and/or technology.
- Show evidence of a commercial market for your proposed product or service.

LIT has partnered with UL and IT Tralee to operate the New Frontiers programme in Limerick and Tralee with shared management and other resources. LIT was successful in securing funding from EI for the programme:

- Phase 1 (May/June 2013) – Introductory Phase with 25 participants (intake to Phase 2 also came through an Enterprise START programme).
- Phase 2 (July-Dec 2013) – Development Phase with each participant receiving €15k of funding based on challenging milestones being achieved – 9 participants in LIT and 9 in ITT.
- Phase 3 (Jan – Mar 2014) – Rollout phase / Commercialisation phase with introductions to investors, funding rounds etc.

The programme operates from the Hartnett Centre with all Phase 2 & 3 participants receiving office space for the duration of the programme.

LEAP

The Limerick Enterprise Acceleration Platform (LEAP) programme is targeted at entrepreneurs and early stage start-up companies located in the Limerick and Clare region. The programme is open to applications from a diversity of sectors. Ideally applicants have the following characteristics;

- Ambitious and have the capability and commitment needed to develop a sustainable business.
- Growth orientated - planning to achieve turnover greater than €100,000 and create more than three jobs in three to five years time.
- Show evidence of a commercial market for your proposed product or service.

The programme runs over a 12 month period with approximately 40 days of business workshops and modules plus guest lectures, one-to-one mentoring and other supports.

LEAP is funded from LIT resources and with the support of AIB. There were 12 participants on the 2012 programme which operates from the National Franchise Centre, where all participants are provided with fully serviced office space for the duration of the programme.

TESS

The Tipperary Enterprise Start-Up Support (TESS) programme is targeted at entrepreneurs and early stage start-up companies located in the Tipperary region. The programme is open to applications from a diversity of sectors. Ideally applicants have the following characteristics;

- Ambitious and have the capability and commitment needed to develop a sustainable business.
- Growth orientated - planning to achieve turnover greater than €100,000 and create more than three jobs in three to five years time.
- Show evidence of a commercial market for your proposed product or service.

The programme runs over a 12 month period with approximately 40 days of business workshops and modules plus guest lectures, one-to-one mentoring and other supports.

TESS is funded from LIT resources. There were 8 participants on the 2013 programme which operates from the Thurles Chamber Enterprise Centre, where all participants are provided with fully serviced office space for the duration of the programme.

FAST

Franchise Acceleration Start-up Training (FAST) is an enterprise development support programme for capturing and promoting the success of Business Format Franchising as a business start-up model and employment generator. Ideally applicants have the following characteristics;

- Ambitious and have the capability and commitment needed to develop a sustainable business.
- Have some funding available to them to help buy a franchise business.
- Planning to create more than three jobs in three to five years time (some franchises cater nicely for people who just want to create employment for themselves so the programme does accept people whose aim is to create just 1 job however selection panels should prioritise places on the programme for those who want to create more than 1 job).

The programme runs over a 12 month period with approximately 40 days of business workshops and modules plus guest lectures, one-to-one mentoring and other supports.

FAST is funded from LIT resources and with the support of AIB. There were 12 participants on the 2013 programme which operates from the National Franchise Centre, where all participants are provided with fully serviced office space for the duration of the programme.

Enterprise START

The Enterprise START programme offers free training and business advice to potential entrepreneurs to assist them in developing their business ideas into tangible business plans.

Enterprise START will provide guidance on assessing the feasibility of a business idea and give insights into the essential elements involved in creating a new enterprise.

The programme is run part-time over 6 weeks during the evening/weekend and offers a real market-place perspective on what is involved in creating a competitive and sustainable commercial enterprise.

In 2013 there were 30 participants in Enterprise START programmes which were run on 2 occasions (1 in Limerick and 1 in Thurles).

CREATE

The CREATE programme is based in Croom and offers free training and business advice to potential entrepreneurs to assist them in developing their business ideas into tangible business plans. CREATE provides guidance on assessing the feasibility of a business idea and give insights into the essential elements involved in creating a new enterprise.

The programme is run part-time over 6 weeks during the evening/weekend and offers a real market-place perspective on what is involved in creating a competitive and sustainable commercial enterprise.

In 2013 there were 18 participants in Enterprise START programmes which were run on 3 occasions (1 in Limerick and 2 in Thurles).

Marketlink Entrepreneur

Marketlink is an innovation and entrepreneurship programme for undergraduate students. The programme assists students to find business ideas, evaluate these ideas and develop the skills and model to commercialise that idea for a market event. Over 100 students attended the Marketlink briefings and over 1,000 people took part in the Market day event.

New Enterprise Programmes

During 2013, LIT Enterprise advanced the development of a number of new Enterprise programmes for rollout in 2013. These include:
CREATE – Croom Enterprise Acceleration Training & Education
This programme was due to be rolled out in June 2013 in conjunction with the officials opening of the Croom Community Enterprise Centre which took place in May 2013. The programme is similar to Enterprise START and is aimed at budding entrepreneurs in the Croom area who wish to evaluate their business idea and get an overview on the path to commercialisation and business start-up.

Franchise START

Franchise START is a training programme catered to those who wish to assess the feasibility of scaling their existing business using the franchise model which was delivered in Q1 2013 at the NFC. This programme helps evaluate the participant's current situation and what planning is required, areas such as intellectual property, the market, the systems, profitability etc. Another programme is planned for Q1 of 2014.

Kaufmann

Kauffman FastTrac® Program is a suite of programs which includes FastTrac® GrowthVenture™, FastTrac® NewVenture™ and FastTrac® TechVenture™. It offers an entrepreneurial ecosystem complete with group oriented courses designed to help entrepreneurs grow their business featuring essential frameworks, strategies and insights along with a reliable support network of leaders and peers.

(B) ENTERPRISE CENTRES

- 2013 - Total number of centres = 5
- 2013 – Total number of centre jobs = 115
- (New Frontiers – 40 (2 cycles), LEAP/FAST/FS NFC 33, LEAP Croom 13, TESS 19, Enterprise Start, 10)
- Total number of jobs created (cumulative) = 515
- 66,000 s,q.ft of dedicated space in 2013.
- New centres in development = 1.
- New centres being planned = 2

Overview

LIT has the most extensive enterprise centre programme of any Higher Education Institution in the country. With 3 active centres providing enterprise programmes and supports with a further 3 – 4 centres to come on stream. LIT has recognised the need to take an active lead in enterprise development.

Hartnett Enterprise Acceleration Centre (HEAC)

2013 - 72 Companies in 7 years employing 300 people

The Hartnett Enterprise Acceleration Centre is Limerick Institute of Technology's Moylish on-campus incubator for innovation and growth driven business start-ups in the Mid-West region of Ireland. Funded in part by Enterprise Ireland and named after John Hartnett, LIT graduate and founder of the Irish Technology Leadership Group in Silicon Valley, the Hartnett Centre is one of the leading enterprise incubator's in the country with a strong track record of enterprise and job creation.
The New Frontiers Programme is based at the Hartnett Centre.
The centre also provides space to a number of significant applied research projects, such as Shannon ABC, which are supporting existing and new enterprise development in the region.

National Franchise Centre (NFC)

2013 – Supporting 74 jobs since commencement

The National Franchise Centre (NFC) is a centre of excellence in Ireland for capturing the successful framework and methodology of franchising. Established in 2011 by Limerick Institute of Technology in partnership with Limerick Chamber, the NFC is an enterprise hub in the heart of Limerick city providing relevant educational and business training for the type of entrepreneur who is comfortable following/developing, a process based business model.

Thurles

2013 - Supporting 19 jobs in 2013

Thurles Chamber Enterprise Centre is a collaborative development between Thurles Chamber of Commerce and Limerick Institute of Technology. The Centre was established to facilitate the development and growth of new local enterprises and to provide a location in Thurles which would allow the creativity and vision of the people of the area to contribute to its future economic well-being. The Centre provides a modern, well-equipped and conveniently located range of facilities for the entrepreneurs of the area. Join us and allow us to support you in making your ideas a reality.

Croom Community Enterprise Centre (CCEC)

2013 - Supporting 13 jobs in 2013

Croom Community Enterprise Centre opened in May 2013.
LIT has secured a 20 year exclusive agreement to provide enterprise programmes and supports and in addition has a significant space dedicated to LIT activity within the centre.
A new Enterprise START programme titled CREATE has been specifically developed for the centre and ran in June 2013 with LEAP running from August 2013 to July 2014.

Reddoor BIC – Newcastle West, Co Limerick

Supporting at least 8 new jobs in the first quarter of 2014

The Red Door Business Incubation Centre was established in 2013 by Newcastle West and District Chamber of Commerce, with the support of West Limerick Resources and in association with LIT. The aim of the Red Door BIC is to establish an incubation hub for new business in the heart of Newcastle West to support the development of new businesses, foster a spirit of entrepreneurship and create employment in the region. The Red Door BIC aims to create the optimum conditions for entrepreneurs before moving to

their own commercial office space, or alternatively, developing their own business premises and creating some much needed jobs in the region. LIT began running an Enterprise Start Programme in the centre in January 2014 in association with Bridgewater Management Ltd.

Future Centres

The following centres are in development or are under discussion with the potential to come on stream in 2013-2014:

Questum, Clonmel

Questum is currently being built in Clonmel. This project is a design and build and the contractor has been appointed.
It is planned to commence building enterprise pipeline in the 2nd half of 2013 through the delivery of Enterprise START programmes and awareness building.

Irish Fashion Incubator (IFIL)

Discussions are taking place with Limerick Local Authority for the development of IFIL in the city centre.

LEDP Cleantech Incubator

Advanced discussions have taken place with LEDP about the development of a Cleantech Incubator at their site in Roxboro. It is anticipated that these discussions will conclude in quarter 1 of 2013.

Aviation Incubator

LIT is working with Shannon Airport on the development of an Aviation Incubator. The project is at feasibility stage. Shannon Airport has a unique position in Irish and trans-Atlantic aviation and has a track record in innovation. The innovative foresight to establish an airport in the late 1940s to facilitate transatlantic re-fuelling provided Shannon with a place of the global aviation map. The establishment of the world's first duty free shop in 1950, the creation of the Shannon Free Zone and tourism attractions are testament to Shannon's innovative ability – an ability that can be captured in the aviation incubator. LIT and Shannon Airport working together to promote innovation and entrepreneurship in Aviation industries could help ignite employment in the region and develop the region as an international leader in the industry.

In addition, the potential to deliver certain elements of the LIT Enterprise Ladder, in particular enterprise programmes, in other centres is being explored. LIT have been working with organisations in Cork, for example, on the roll out of the Franchise Start programme.

(C) LIT ENTERPRISE LADDER

2014 – Roll out of new steps on the ladder

LIT's Enterprise Ladder is a unique solution for start-up and early stage companies who require a level of supporting expertise to ensure their next and subsequent steps are the right ones.

It is the visualisation of LIT's Enterprise Strategy
From a one-day boot camp to developing a high-potential technology start-up enterprise, LIT has a matching enterprise programme to ensure your start-up business has the best possible chance of success.

The LIT Enterprise Ladder makes a major contribution to the knowledge base and innovation in our region and beyond.

LIT is set to significantly build on this, year on year, thanks to the roll out of additional programmes at the Hartnett Centre, the National Franchise Centre and the new centre in Thurles and Croom, as well as the centres in development in Clonmel and the Irish Fashion Incubator in Limerick city centre.

All of this will have a measurable impact on new company formation, employment creation and innovation both through and with our client companies and applied research functions.

Roll out of New Steps

The finalisation of strategic partnerships in 2013 with South Tipperary County Council for Questum Centre and enterprise activity in Clonmel and with an MOU in 2014 with the ITLG and Silicon Valley Partners will see further advancements in LIT's Enterprise Ladder in both programmes offered and facilities available to support enterprise development.

(D) ENTERPRISE LADDER FUND (ELF)

2012 – Raising over €350k to support enterprise development
2013 – First companies benefit from the ELF Fund.

LIT has established a seed fund to provide early stage financial equity for start-up companies. This seed fund will focus on supporting the start-up companies in LIT's existing enterprise centres based in the Hartnett Enterprise Centre in its Moylish Campus, the National Franchise Centre in its O'Connell Street Campus, Thurles Chamber Enterprise Centre at LIT Tipperary and Croom Community Enterprise Centre in conjunction with Croom Development Agency as well as the planned IFIL – Irish Fashion Incubator in Limerick city centre and the Research & Innovation Centre at the LIT Tipperary Clonmel Campus.

The vision for ELF is to invest funds to assist start up business so that the enterprise has enough funds to sustain itself for a period of development until it reaches either a state where it is able to continue funding itself, or has created something of value so that it is worthy of future rounds of funding. The ELF is expected to form part of and to supplement an overall financing of early stage companies.

The ELF support for a startup business is expected to be in the range of €10,000 to €25,000 per enterprise.

The fund was launched in April 2012 by Minister for Finance Michael Noonan, T.D. and a significant portion of the €1m fund target was raised in 2012.

The fund was opened to applications from LIT enterprise clients in November 2012 and awards were made in February and October 2013.

(E) STRATEGIC PARTNERSHIPS

Irish Technology Leadership Group (ITLG)

LIT has partnered with the Irish Innovation Centre (IIC) in Silicon Valley and the Irish Technology Leadership Group – both of which are lead by John Hartnett, an LIT Graduate and whom our Hartnett Enterprise Acceleration Centre is named after.

LIT delegates went to Silicon Valley in December 2011 to strengthen this relationship and open the gateway for our client companies and enterprise alumni. As a result of this visit the Hartnett centre clients, EPP (New Frontiers/LEAP) participants and alumni have connected with Silicon Valley and have the opportunity to participate in study and summit visits to Silicon Valley, the next being planned for May 2013.

Silicon Valley Global Partners (SVG)

LIT has partnered with SVG to bring the Kaufmann suite of management development programmes to Ireland.

Silicon Valley Global Partners (SVG Partners) is a management consulting firm founded by experienced technology executives that drive competitive advantage across organisations, from strategy to implementation.

SVG own the licence to deliver the Kaufmann programme suite in the UK and Ireland. LIT have negotiated a MOU with SVG which will provide LIT with exclusive rights to deliver these programmes in Munster, Connaught and Co. Offaly.

Chambers of Commerce

LIT has partnered with Limerick Chamber in the establishment of the National Franchise Centre and continued this model in 2012 with the opening of the Thurles Chamber Enterprise Centre – a partnership between Thurles Chamber, LIT and others that has established a 12,100 sq.ft enterprise centre on the LIT Thurles campus where a number of LIT enterprise programmes have been delivered in 2012 and 2013.

LIT is examining other potential partnerships with business representative bodies where this will provide benefit to the body/community and is in line with LIT's enterprise strategy.

Community Organisations

LIT has partnered with Croom Community Development Association and together with a number of other partners built the Croom Community Enterprise Centre which opened in May 2013 with a full time manager in situ and agreement in place for LIT to provide enterprise programmes for the centre. LIT worked with Croom Community Enterprise Centre to run a short programme called CREATE and also ran a LEAP programme in 2013.

LIT has also collaborated with a wide range of partners to finalise plans for a Research & Innovation centre in Clonmel. This project is a design and build and work has started in September 2013. The project is due for completion in August 2014.

LIT is also working with community partners, including Limerick Local Authority to find an appropriate site for the development of the Irish Fashion Incubator (IFIL). This partnership should see the project advance significantly in 2014.

(F) ENTERPRISE EVENTS

2013 – Over 1,000 attended LIT Enterprise Events

Regional Business Awards
LIT is proud to be the main sponsor of Limerick Chamber's Mid-West Region Business Awards which gives businesses a platform to showcase their accomplishments.

This event is a celebration of business success and will highlight business achievements, innovation and excellence in the region.

The winning businesses demonstrate a commitment to success through innovation, investment expansion, strategic acquisition or service performance that has led to a significant increase in business. Over 100 people attend the awards launch and over 400 people attended the award presentations at the Limerick Chamber President's dinner.

Incredibly high profile successes by young founders like Mark Zuckerberg have made founding a startup an increasingly attractive career path for students and graduates.

Limerick Business Week – Over 400 people attended LIT events
LIT held two events during Limerick Business week

- **College Start-ups**

Over 380 attended in the Millennium Theatre. Students and businesses heard from a panel of spin out entrepreneurs from LIT, UL and IT Carlow who started up their companies as students or recent graduates including Amideon's Barry Lunn, Bluechiefs Keith O'Neil and Shane McCarthy, Boba Tea's Louise McCormack, ALR Innovations, Lisa O'Donoghue, Atom Split Games's James Daly, Nevermind Games's Alan Boyce, Shadowman Sports' JP Hartigan.

We were also delighted to be joined by Ericsson's Director or Technical Solutions and based in Silicon Valley, California, Noel Kenehan. Noel currently works with 3G and 4G mobile technologies and disruptive TV technologies. Ericsson is pushing the envelope in terms of telecom innovation which gives Noel a unique perspective into the telecom landscape. Noel has also filed a number of patents himself. Noel shared his vision of where technology is going in the next 5 years and really inspired students and start-ups to be more innovative and take advantage of opportunities that are presenting themselves.

Be an International Success – the secrets to successfully growing and scaling your business
The event covered the following:
Do you think your business has the opportunity to be a success in other countries? Are you looking to be inspired by other businesses who have successfully grown in other countries? Are you interested in looking at different business models on how to expand?

The attendees heard from entrepreneurs and their team on how to grow your business internationally and get access to the right resources to help you take the steps to being an international success. Ms Marguerite O'Grady, General Manager, Kemp Technologies Marguerite was a key member of the team who helped raise investments of more than $16million in 2012 helping Kemp in its rapid growth trajectory in expanding to now more than 35 countries across 6 continents. With 23 employees in Limerick and a head office in New York, Marguerite has a great overall view of how selling, billing, staffing and marketing in each region works.

David Kileen, Kileen & Associates, Chairman of the Irish Franchise Association
With over 25 successful years of retail and wholesale experience at senior managerial level, David acquired an expert understanding of business growth strategies and in business format franchising and the retail and wholesale sectors in Ireland. For an insight into how to grow and scale your business using an alternative business model this is the workshop for you.

Marketlink Entrepreneur
Marketlink is an innovation and entrepreneurship programme for undergraduate students. The programme assists students to find business ideas, evaluate these ideas and develop the skills and model to commercialise that idea for a market event. Over 100 students attended the Marketlink briefings and over 1,000 people took part in the Market day event.

LEAP and FAST Business Awards
Minister of State, Department of Environment, Community and Local Government with special responsibility for Housing and Planning Jan O'Sullivan T.D. was the guest of honour at both the LEAP and FAST Business Awards.

The LEAP Awards recognise the development, innovation and commercial potential of businesses who participated in the LEAP programme in 2013. The FAST Awards recognise the successful development and planning of a new business for participants on the FAST programme in 2013. The overall winner received a total prize of €7,000 including €3,000 cash prize from AIB at a presentation in the National Franchise CentreOver 150 people attended the award events.

Other Events
Other events organised throughout 2013 included a Silicon Valley Study/Pitch Visit for LEAP and New Frontiers participants and a number of breakfast briefings, guest lecturers, funding events etc.

(G) OTHER ACTIVITIES

1. IDA itineraries
2. Millennium Theatre and other commercial activity
3. Community Activities (Learning Hub etc)

Campus 2030 sets out the physical development proposals to enable and embed LIT's educational philosophy of active learning.

06

CAMPUS PLANNING & DEVELOPMENT

CAMPUS PLANNING AND DEVELOPMENT

Campus 2030 – Our Places
Creating places where people want to be

Campus 2030 sets out the physical development proposals to enable and embed LIT's educational philosophy of active learning.

The masterplan proposals consist of a number of connected learning clusters. Each campus sets out clearly the key masterplan objectives. Each campus is reviewed in the context of the broader LIT estates and a roadmap for their future development is identified.

A central driver for Campus 2030 is creating places that people want to be. Improving and modernising the surrounding learning environment is a key consideration for LIT and the masterplan proposes a number of major strategic development initiatives.

The campus is currently highly internalised and the opportunity is to create better external collegiate spaces that act as suntraps and social spaces. A series of linked urban spaces are proposed throughout the campus creating new green pathways between buildings and facilities.

Putting active learning on display, rather than being lost in closed laboratories, workshops and kitchens will be part of the transformation of the existing street.

Improvements to both external and internal social spaces are central to providing a flexible and learner centred campus experience. Providing places to sit which are safe and inclusive are part of LIT recognising the social agenda of a 21st century campus.

The campus is an integral part of the community. Improving connections with our neighbours over time will allow the campus to become a gateway to the city. Connectivity with Thomond Park, home of Munster Rugby is proposed as part of the creation of a new city quarter on the north side of the city, providing a bridge between the regenerated communities on the north side and the city centre. Gateway projects to symbolise engagement, openness and connectivity will be delivered on all campuses. The development of sports projects in combination with partner organisations will increase participation and access to the campus through a variety of programmes and facilities. Strategic key moves are based around unlocking potential of the existing campus and aligning the effective delivery of education with the estate's provision. Proposals to the existing estates are already underway, blending active learning through a 21st century campus.

Estates Department

Moylish Campus

The major developments for 2012/13 period were the conversion and upgrade of spaces to provide new Pneumatics, Concrete and Soils laboratories, a Land Surveying store and two 20 Seat classrooms. Additionally a 16 seat computer lab was created to support the land surveying activity. These works have freed up space in Block 15 and have allowed for consolidation of activities in the main building.

Externally, access to the North Entrance was remodeled to provide enhanced disabled access and also to provide communal/civic space for students. The project consisted of a combination of seating, tables and planters and themed 'Learning Squares'. It has proved most successful and is a popular location for students to gather.

Extensive painting of areas, including classrooms was carried out under the Summer Works programme. Other works of note that were carried out included the replacement of water tanks, roof repairs, installation of recycling facilities and the purchase of additional classroom furniture.

Clare Street/Georges Quay

In Georges Quay a 100 seat lecture theatre was developed on the ground floor. This work incorporated additional fire escape routes from the room. On the 1st floor, 4 rooms were fitted out to accommodate 1st year Animation, Photography and Knitwear studios.

In carrying out these works asbestos pipework insulation was removed.

Thurles/Clonmel

In Clonmel the Knowledge Resource Centre was relocated to accommodate the provision of an Animation Studio. Additional furniture was installed in the dining area to provide open access PC's for students.

In Thurles railings were erected around the Fire Ponds. Upgrades were carried out to the BMS system. A recycling station point was installed in the Canteen in support of Green Campus committee's recycling initiatives.

Overview of Energy Usage in 2012

The main energy users at Limerick Institute of Technology are the main campus building in Moylish Park (52% of total), the School of Art & Design, Clare St (17%), Satellite Buildings in Moylish Park (10%) and Tipperary Campuses (20%). The majority of energy is consumed for space heating, air handling, cooking and water heating. The remainder is accounted for by lighting, computer labs and office equipment.

For 2012, LIT consumed 8,784 mWh of energy, made up from: 4,185 mWh of electricity. 4,599 mWh of natural gas.

Actions taken in 2012

- Fitting extra corridors and some lab areas of main building with low energy LED lighting.
- Continuing with pipe insulation in main building Moylish and Clare St. campus.
- Controlling heating temperatures and times.
- Attendance at SEAI Energy Management Workshops.

Actions planned for 2013

- Continue with sub monitoring of electrical distribution boards .
- Continue with pipe insulation in main building and Clare St. campus.
- Participate in SEAI Monitoring & Reporting plan to 2020
- Drafting an energy management policy for all LIT buildings
- Complete SEAI Energy Mapps Training.

Campus 2030 – Our Places Projects Completed During 2012 / 2013

3G Pitch (Moylish)

The Astroturf pitch at Moylish was replaced by a new high specification 3G (third generation) Astroturf surface, suitable for GAA and rugby in addition to soccer. A significant amount of additional drainage was installed to ensure that the pitch is playable in all weathers, along with new goals for soccer, GAA training, and 5-a-side soccer, and new ball-stop netting at the south end of the pitch.

EAC Reception (Moylish)

The reception area of the Enterprise Acceleration Centre was remodelled and upgraded; delivering additional office spaces and enhanced accessibility. Through creative design, the use of glazing, and appropriate furnishing; the additional spaces were delivered while adding light and the appearance of enhanced space in the reception area.

Block 14 (Moylish)

Fire safety compliance issues in Block 14 were resolved, an additional office was constructed, accessibility of the building was improved, and student recreational facilities were enhanced.

ASET Labs (Moylish)

This project had several related strands that delivered multiple benefits. The Built Environment Soils and Concrete Labs were relocated to larger more suitable spaces. The Surveying Centre was relocated from Block 15 adjacent to the soils and concrete labs. The Fluid Power lab was relocated to a larger space, and two new 24 seat teaching spaces were delivered, for general timetable use. Also a computer lab was converted to an Interior Design studio. The overall objectives achieved were: clustering of related activities, decant of Built Environment activity from Block 15, delivering improvements to each facility, and adding generic teaching space capacity.

Learning Squares (Moylish)

The area outside the north entrance to The Street was remodelled to deliver a superb outdoor space for LIT staff and students; a place for social interaction, group work, individual learning, or to relax whenever the sun shines! Accessibility was also enhanced.

Lecture Room Upgrade (Georges Quay)

The Ground Floor lecture room was up-graded, with new furniture, new finishes, lighting, and Audio Visual installation. A new Fire Escape route was also provided, increasing the permitted occupancy of the room.

Knitwear Studio and Animation Studio (Georges Quay)

New studios were delivered in Georges Quay, in response to the continued success of the LSAD Animation programmes and the launch of a new programme in Knitwear Design. The studios take advantage of bright, high quality spaces on the 1st Floor of Georges Quay, and feature new floor finishes, new bespoke furniture, equipment and power / IT services, and new Audio Visual installations.

Animation Studio (Clonmel)

The success of the LSAD Digital Animation Production programme at Clonmel, and the need for bigger and better facilities, is recognised in the conversion of the former library at Clonmel to a multi-purpose high quality animation studio. This project also involved relocation of the library to a new space, and relocation of staff offices; to deliver the new studio without adding to the overall building foot-print. The Animation Studio is designed for multiple configurations of furniture and multiple uses, and to accommodate future installation of further equipment.

Safety and Facilities

Safety Advisory Committee

The Safety Advisory Committee continued its work having met each term during the year. Mr. Eamon O'Malley, O'Malley-Griffin Brokers Ltd., made a presentation on "Incident & Accident Reporting together with Insurance for student activities on and off campus" at the meeting on 27th February 2013.

Accidents
Fifty two accidents were reported during the period, involving, thirty two students, thirteen staff members, two visitors, one Post Grad, one exchange student, one theatre goer, one contractor employee and one trespasser. Three staff accidents were notified to the Health and Safety Authority.

Fire Safety
All fire suppression systems, fire detection and alarm systems, fire extinguishing systems, smoke ventilation systems and emergency lighting systems were tested and examined in compliance with legislative requirements and best practice.

"Fire Mans" switch was installed in the main building at the Moylish Campus.

The fire detection and alarm systems in Clare Street Campus were changed from the Autronica System to the "Advanced" System as the existing system is becoming obsolete.

There was a fire incident in the kitchen of the Hartnett Enterprise Acceleration Centre.

Fire Drills were carried out on two occasions in all campuses.

Health Screening
Fifty five staff members availed of the "Health Screening" initiative which commenced during European Health and Safety Week.

Asbestos Survey
George's Quay Campus was surveyed for the presence of asbestos containing materials. Asbestos insulation which was identified on the pipework in the basement was subsequently removed before the commencement of refurbishment work.

Lecture Theatre
The tiered seating in the lecture theatre, Clare St. was tested and examined to ensure satisfactory operation.

Gas Safety
All detection and alarm systems were tested and examined to ensure satisfactory operation. All processed gas systems were serviced in compliance with BCGA Codes of Practice.

Training
Training was provided to staff on occupational First Aid, Safe Pass, Risk Assessment, Gas Safety, Lift Rescue and Manual Handling.

Radon Gas
Clonmel and Thurles Campuses were surveyed for the presence of Radon Gas. Levels approaching acceptable standards were recorded in the corridor area B158/159 Thurles Campus and an extract unit was subsequently installed.

Fall Arrest Equipment
All fall arrest systems and associated equipment were tested and examined.
A fall arrest system was installed on the roof of Clonmel Campus.

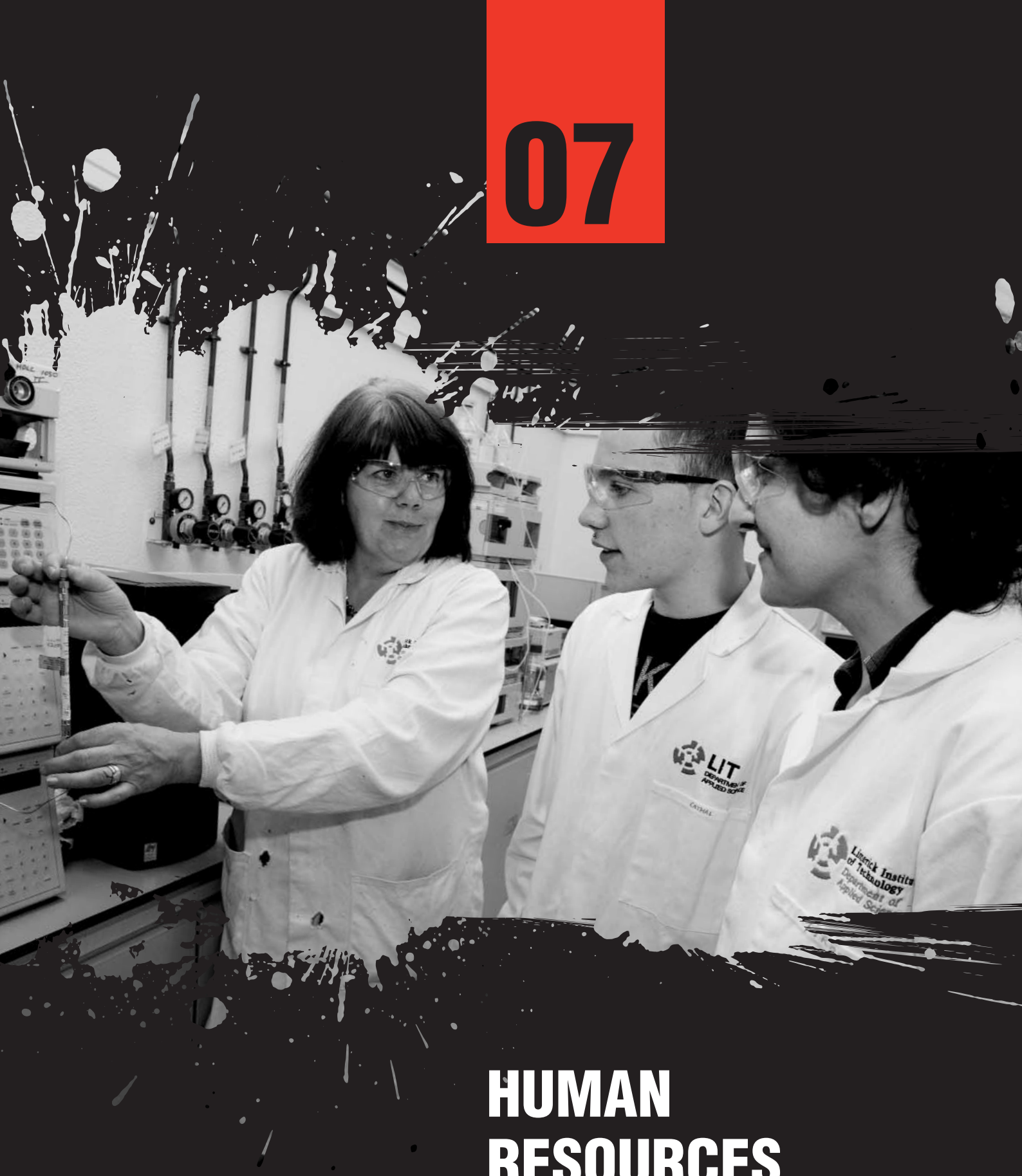
Electrical Safety
Portable Appliance Testing was carried out on two thousand three hundred appliances at the Limerick campuses. Earth Continuity Testing was carried out on all circuits supplying power to portable equipment and all RCDs were checked for safe operation at the Limerick campuses. Thermal Imaging of all electrical distribution boards was carries out throughout the Institute. Emergency lighting circuits and associated equipment were tested in compliance with I.S. 3217:2008.

Statutory Testing
Engineers from Royal and Sun Alliance Insurance Company carried out Statutory Testing on all air compressors, heating boilers, autoclaves, steam irons, passenger lifts, ropes, hoists, lifting gear, scaffolds, elevating platforms, relevant garage equipment and lighting/stage equipment in the Millennium Theatre.

MANAGEMENT CAPABILITY
TECHNOLOGY
& SHARED OFFICE
RESEARCH COMMERCIALISATION
HOTSPOT OF INNOVATION
ENABLING ENTREPRENEURS
SERVING LIMERICK
TONGS
BUNSEN
BURNERS
TRIPODS

LIT delivered education, training, research and community engagement programmes true to its long history and its mission, and fitting with its forward looking vision and strategic objectives.

07



HUMAN RESOURCES REPORT

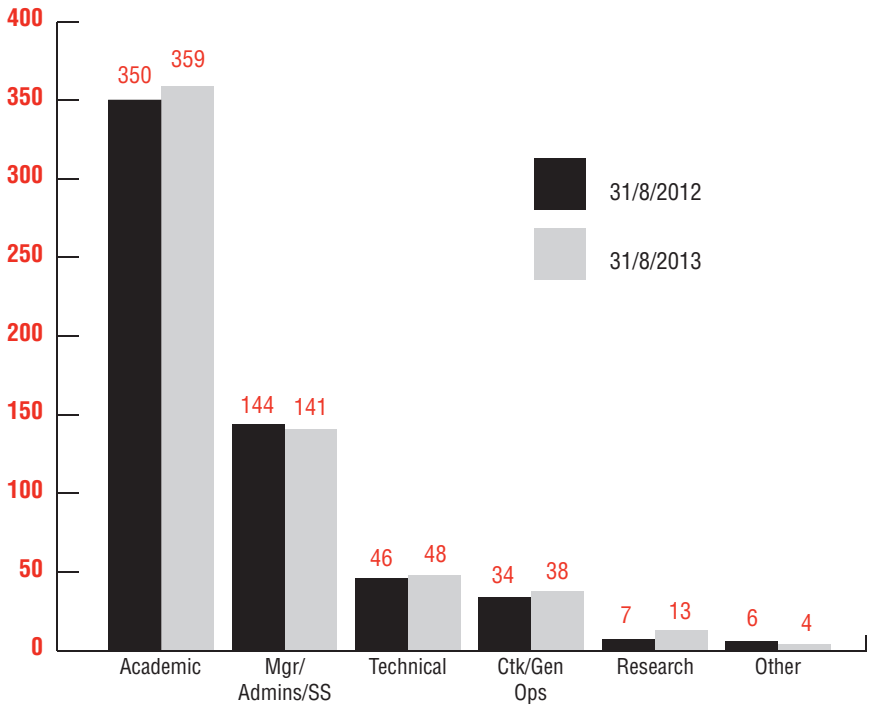
7.1 HUMAN RESOURCES REPORT

ACADEMIC YEAR: 2012/2013

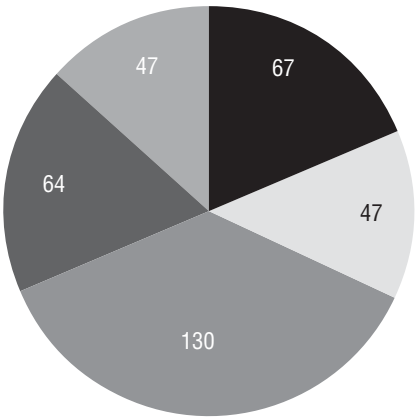
NUMBER OF STAFF BY CATEGORY (headcount figures)

	As at 31/08/12 (PWT/Pro-Rata/ Fixed Term/ CID's/ Non-Academic Part-timers) Including Tipperary School	As at 31/08/13 (PWT/Pro-Rata/ Fixed Term/ CID's/ Non-Academic Part-timers) Including Tipperary School
Academic Staff	350	359
Executive/Senior Management/ Admin/Library/Student Services	144	141
Technical Staff	46	48
Caretakers	18	18
PT General Operatives/Support	16	20
Research Assistants/Post Docs	7	13
Other (surplus)	6	4

NUMBER OF STAFF BY CATEGORY

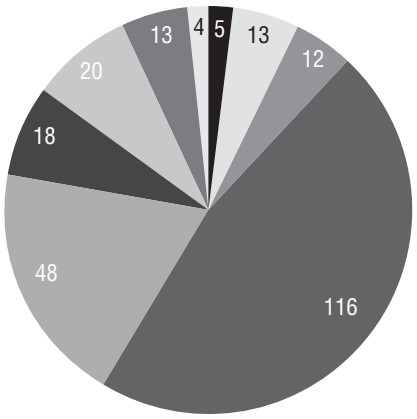


ACADEMIC STAFF BY SCHOOL



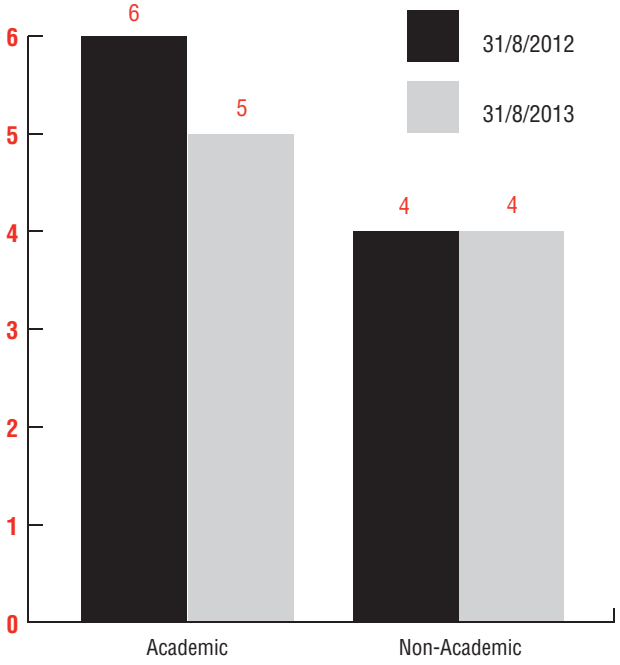
Art & Design incl. Art, Mult & DP	67
Built Environment	47
SEIT	130
Business & Humanities	64
Tipperary	47

NON-ACADEMIC STAFF BY GRADE

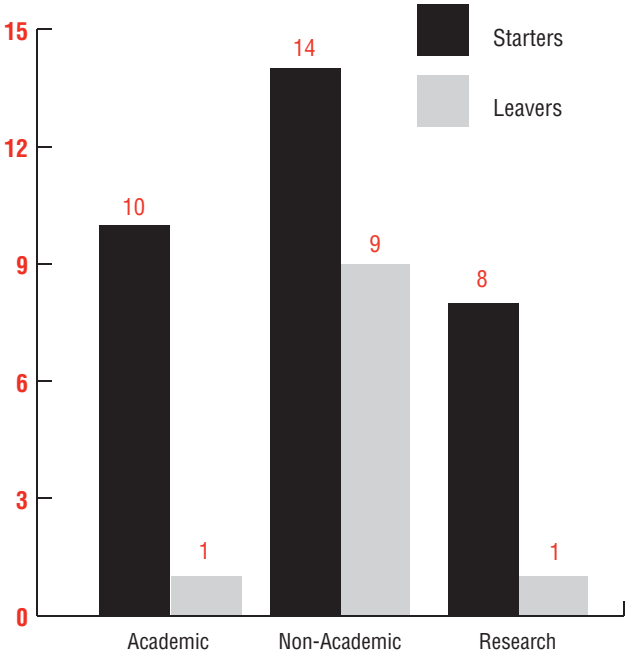


Executive	5
Managers/Officers	13
Students Services	12
Admin/Finance/Library	116
Technical	48
Caretakers	18
PT Gen Ops/Support	20
Research	13
Other	4

CAREER BREAKS/SECONDMENTS:

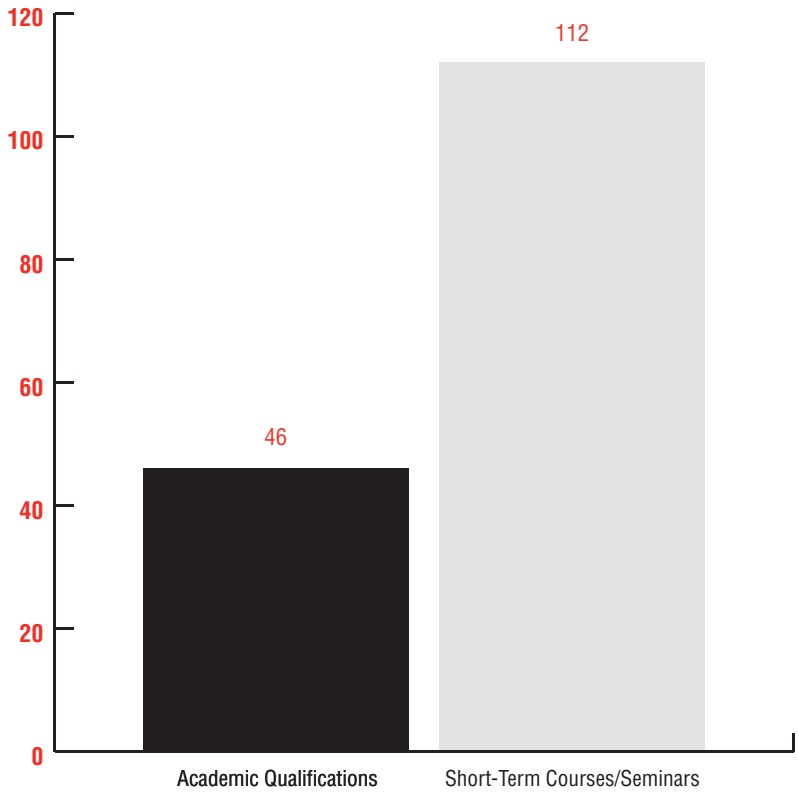


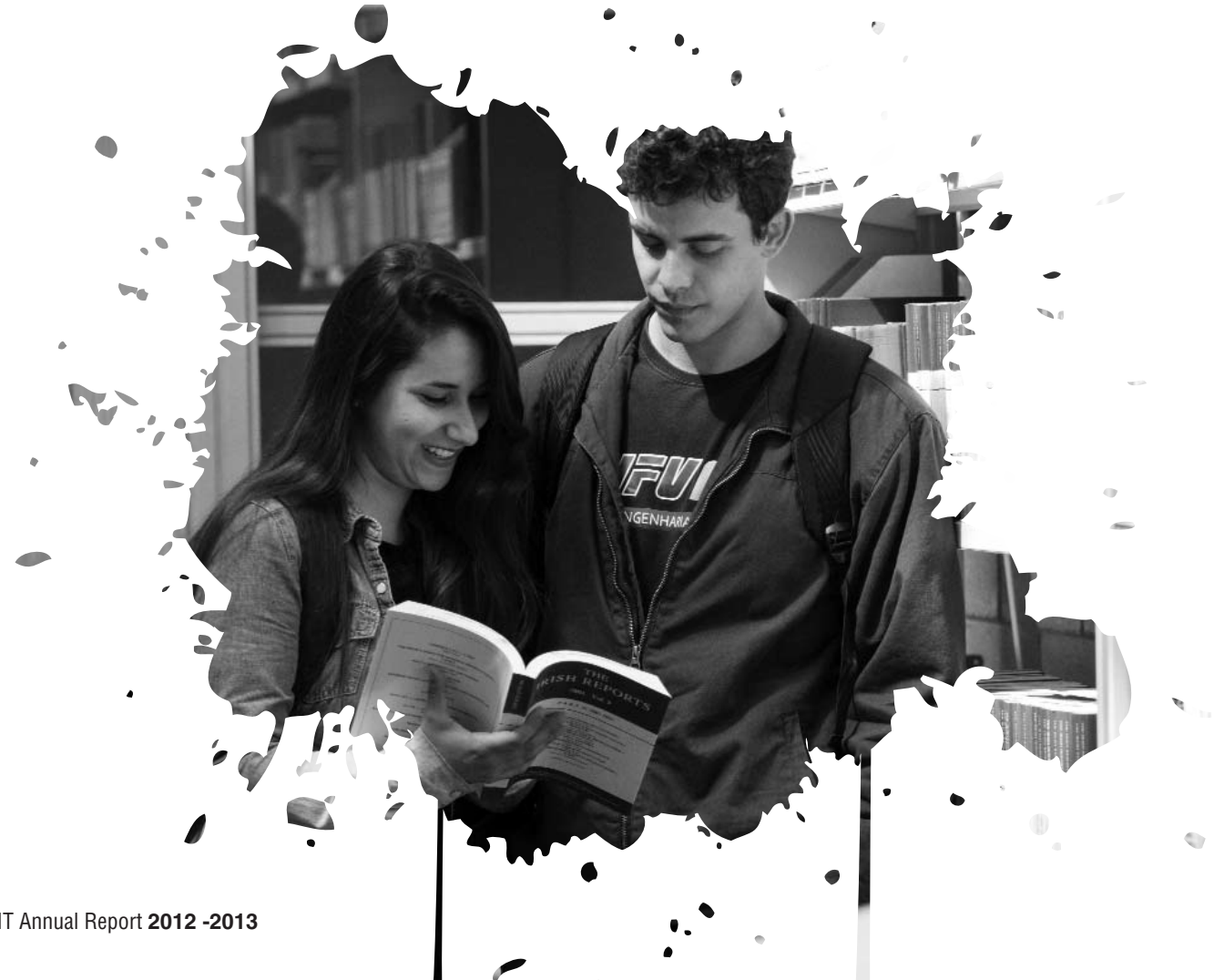
STARTERS AND LEAVERS:



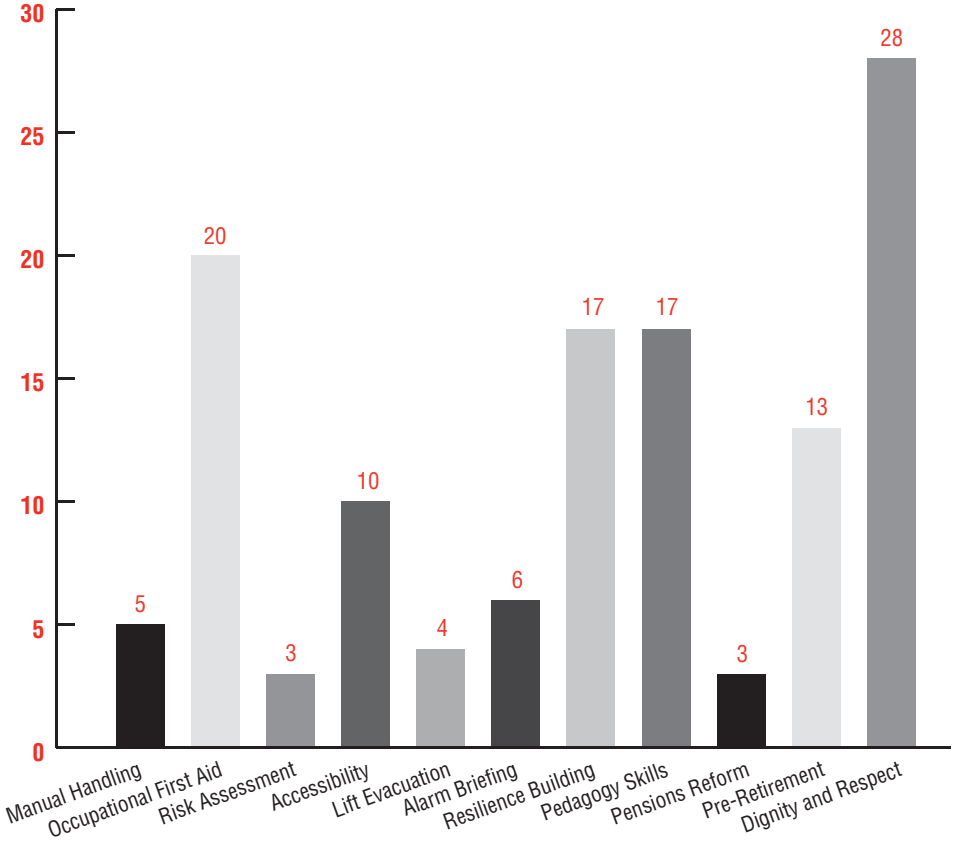
7.2 CONTINUING PROFESSIONAL DEVELOPMENT

Number of places funded on externally provided courses

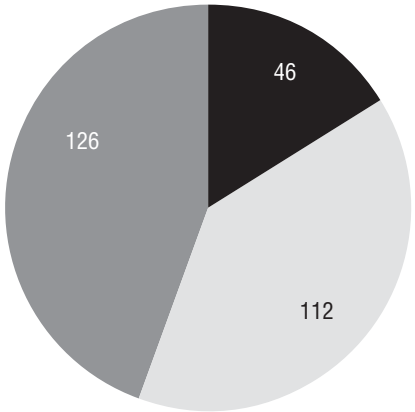




Attendance at internally run courses



Continuing Professional Development Overview



Academic Qualifications	46
Short Courses/Seminars	112
Internally run	126

The financial statements for the year ended 31st August 2013 were audited by the Comptroller and Auditor General and approved without qualification on the 28/06/2014.

08

FINANCIAL REPORT

8.1 FINANCIAL REPORT 2012 – 2013

The financial statements for the year ended 31st August 2013 were audited by the Comptroller and Auditor General and approved without qualification on the 28/06/2014. Extracts from the financial statements are attached.

The Financial Statements for 2012/2013 reflect the ongoing reduction of funding available to the HE sector. The level of expenditure by LIT reflects a planned and approved reduction in reserves. These reserves are being invested in non-recurring activities such as equipment replacement and space refurbishment/redesign to increase utilisation.

During the course of the year, this significant investment resulted in the upgrade/development or refurbishment of 16 teaching spaces across all campuses.

This level of investment will continue in line with the approval by the HEA for the utilisation of accumulated reserves and development resources.

Substantially this investment is the initial phase of the campus development plan – Campus 2030. The financial statements also reflect the increasing funding of the sector by students. The increase in the student contribution fee has led to a change from 32% to 35% of total funding provided by student tuition/contribution. This is set to further increase in 2013/2014.

LIT's overall financial position remains strong but the lack of structured capital funding has become a serious limiting factor to enable urgent refurbishment and future growth. The withdrawal of the devolved grant from the sector will result in building up significant levels of deferred maintenance as well as eroding the necessary levels of investment in educational equipment.

CONSOLIDATED INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 AUGUST 2013

	Note	2013 €000's	2012 €000's
INCOME			
State Grant	1	25,073	26,512
Tuition Fees	2	18,209	17,831
Amortisation of Deferred Capital Grants	18	2,870	2,964
Research Grants & Contracts	3a	4,882	4,136
Strategic Innovation Fund	3b	58	42
Student Support Funding Income Recognised	4	781	790
Other Income	5	2,796	2,731
Interest Income		413	675
		55,082	**55,681**
EXPENDITURE			
Academic Depts	6	29,993	29,465
Academic Services	7	3,377	3,215
Facilities Costs	8	5,539	6,109
Central Admin & Services	9	5,703	5,501
General Educational Expenses	10	505	388
Student Services	11	3,224	2,771
Research Grants & Contracts	3a	4,515	4,136
Strategic Innovation Fund	3b	58	42
Student Support Funding Income Applied	4	781	790
Depreciation	15	2,870	2,964
		56,565	**55,381**
Operating (Deficit) / Surplus		**(1,483)**	**300**
Transfer to Capital Development Reserve		(645)	(592)
Accumulated Surplus at the begining of the Year		3,971	4,263
Accumulated Surplus at the End of the Year		**1,843**	**3,971**

There are no gains or losses other than those recognised above.
The Statement of Accounting Policies, Cash Flow Statement and Notes 1-27 form part of the Consolidated Financial Statements.

Signed on behalf of the Governing Body

Chairman, Mr. Niall Greene

President, Dr. Maria Hinfelaar

CONSOLIDATED BALANCE SHEET
FOR THE YEAR ENDED 31 AUGUST 2013

	Note	Consolidated 2013 €000's	Consolidated 2012 €000's	LIT Only 2013 €000's	LIT Only 2012 €000's
FIXED ASSETS					
Tangible Assets	15	64,727	64,666	64,665	64,666
CURRENT ASSETS					
Debtors	16	3,131	3,045	3,236	3,045
Cash at Bank and in Hand		14,567	19,183	14,561	19,183
		17,698	22,228	17,797	22,228
CURRENT LIABILITIES					
Amounts Due within One Year					
Creditors & Accrued Expenses	17	(9,052)	(10,068)	(9,045)	(10,068)
Net Current Assets		8,646	12,160	8,752	12,160
Net Assets		**73,373**	**76,826**	**73,417**	**76,826**
REPRESENTED BY					
Deferred Capital Grants	18	64,727	64,666	64,665	64,666
Cumulative Income & Expenditure		1,843	3,971	1,949	3,971
Capital Development Reserve	21	6,803	8,189	6,803	8,189
		73,373	**76,826**	**73,417**	**76,826**

The Statement of Accounting Policies, Cash Flow Statement and Notes 1-27 form part of the Consolidated Financial Statements.

Signed on behalf of the Governing Body

Chairman, Mr. Niall Greene

President, Dr. Maria Hinfelaar

CONSOLIDATED CASHFLOW STATEMENT
FOR THE YEAR ENDED 31 AUGUST 2013

	Note	2013 €000's	2012 €000's
INCOME			
Reconciliation of Operating Surplus to net Cash Inflow from Operating Activities			
Operating Surplus / (Deficit)		(1,483)	300
Interest Income		(413)	(675)
Depreciation	15	2,870	2,964
Amortisation in line with Depreciation	15	(2,870)	(2,964)
Cash from TRBDI		-	2,893
Funds released from Capital Development Reserve		(168)	-
(Increase)/ decrease in LIT Debtors		(191)	990
Increase in Subsidiary Debtors		(28)	-
(Decrease)/ increase in LIT Creditors		(1,023)	1,531
Increase in Subsidiary Creditors		141	-
		(3,165)	**5,039**
Cashflow Statement			
Net Cash (Outflow)/Inflow from Operating Activities		(3,165)	5,039
Interest Received		413	675
Capital Expenditure			
Payments to Acquire Fixed Assets		(2,931)	(1,147)
Net Cash Outflow for Capital Expenditure		**(2,931)**	**(1,147)**
Financing			
State Recurrent Grants spent on Fixed Assets		956	865
Other Funds spent on Fixed Assets		111	282
		1,067	**1,147**
(Decrease) / Increase in Cash		(4,616)	5,714
Reconciliation of Net Cash Flow to Movement in Funds			
(Decrease) / Increase in Cash		(4,616)	5,714
Opening Net Funds		19,183	13,469
Net Funds at 31 August		**14,567**	**19,183**

The Statement of Accounting Policies, Cashflow Statement and Notes 1-27 form part of the Consolidated Financial Statements.

Signed on behalf of the Governing Body

Chairman, Mr. Niall Greene

President, Dr. Maria Hinfelaar

LIT is an Equal Opportunity Employer.
LIT is committed to providing equal opportunities in education, employment and training.

09

EQUAL OPPORTUNITIES REPORT

8.1 EQUAL OPPORTUNITIES POLICY (CURRENTLY UNDER REVIEW)

Policy Statement

LIT is an Equal Opportunity Employer. LIT is committed to providing equal opportunities in education, employment and training. The Institute rejects any direct or indirect discrimination under the following nine grounds: gender, marital status, family status, sexual orientation, religion, age, disability, race, membership of the Traveller community. No course applicant, student, job applicant or staff member will receive less favourable treatment on the grounds listed above. All decision to do with recruitment, training, promotion, career development and conditions of service will be based solely on suitability.

Aims and Objectives

LIT is committed to creating an awareness of the need for non discriminatory attitudes. The purpose of the Equal Opportunities Policy is to state clearly LIT's commitment to equality of opportunity. It is recognised that it is crucial that the LIT staff and student body endorse non-discriminatory attitudes.

The objectives of the policy are to ensure that LIT does not discriminate against any student, staff member or applicant for education/employment in relation to:-

- Access to Education
- Access to Employment or Promotion
- Advertising of Vacancies
- Recruitment and Selection
- Conditions of Employment
- Training and Development

Limerick Institute of Technology is the Sunday Times Institute of Technology of The Year 2013.

10

NEWS & EVENTS

LIT IS THE INSTITUTE OF TECHNOLOGY OF THE YEAR 2013

Staff and students at LIT were celebrating this week upon hearing the news that Limerick Institute of Technology is The Sunday Times Institute of Technology of the Year. The 2013 University Guide supplement published on Sunday, is the definitive guide to Higher Education in Ireland and the UK. Each year, third level institutions across Ireland and the UK are measured against six key indicators such as Leaving Certificate points for entry, top degrees awarded, graduate job prospects and income generated from research.

Of the fourteen Institutes of Technology in Ireland, LIT, having jumped eight places in the league table has come out on top, while University College Dublin (UCD) has been awarded The Sunday Times University of the Year.

In announcing the results The Sunday Times commented that LIT "attracts high-calibre students and has a low dropout rate across its five campuses in Limerick, Tipperary and Clare."

This award caps an impressive year for LIT with the award winning LIT School of Art & Design named as one of the top 50 fashion departments worldwide in an independent US guide earlier in the year. Under the new strategic plan, LIT has seen major growth in the number of international students attending and there are now 88 nationalities represented in the LIT student body, representing about 15% of all students. Research activity at LIT is developing rapidly with LIT one of the top 5 IOT's in terms of the amount of total research funding it secures per academic, and the impressive impact of LIT's enterprise centres on innovation and employment throughout the region is well-known.

The Institute of Technology of the year award follows LIT's recent unveiling of its €200m plus 'Campus 2030 Masterplan'. The plan represents a significant stimulus for the Limerick and Mid-West region's economy and is in response to unprecedented growth across LIT discipline areas such as Art and Design, Engineering and Humanities.

LIT's President Dr Maria Hinfelaar expressed delight at the news. "LIT is the top Irish Institute of Technology for the 2nd time in 4 years! This is a fantastic performance and a tribute to all staff and students. The Sunday Times also commented on our successful merger with the Tipperary Institute, which has transformed LIT into a multi-campus institution with a presence in Limerick City, Thurles and Clonmel in Tipperary and Ennis in Clare. I am sure that this integration has contributed positively to winning the accolade of IOT of the Year."

At a celebration with staff and students this week LIT Student's Union President Niamh Kavanagh said, "It is a wonderful achievement for LIT to be named Institute of the year 2013. This achievement reflects the hard work by both students and staff".

LIT CAMPUS MASTERPLAN: CAMPUS 2030 - OUR PLACES

Limerick Institute of Technology has announced a significant stimulus for the Limerick and Mid-West region's economy with the unveiling of its €200m plus 'Campus 2030 Masterplan'. The Masterplan, launched by Minister Jan O'Sullivan at LIT's Limerick School of Art & Design (LSAD) city centre campus at Clare Street, Limerick, is in response to unprecedented growth across LIT discipline areas such as Art and Design, Engineering and Humanities. It also reflects the expansion in LIT's Enterprise Centres and the applied research capabilities, which were not part of the original masterplans when the campuses were developed during the late 1990s.
The investment will see an additional 50,000sq metres of facilities of new facilities as well as extensive refurbishment of existing facilities.

It will be invested across LIT's four existing campuses – its Moylish Park headquarters; LSAD (Clare Street, Limerick); its LIT Tipperary campus in Thurles and Clonmel – as well as a brand new 7,000sq metre new campus at Coonagh, Limerick.

The three Limerick campuses will be renamed after the ancient kingdoms of Munster – Desmond (City Centre), Thomond (Moylish) and Ormond (Coonagh) – where LIT draws the vast majority of its students.

The Masterplan will amount to the most significant expenditure by a third level institute outside of Dublin over the coming decades, with the overall investment set to be a key element of the city's reinvigoration. The €20m Phase One of the programme will commence next year and comprise the development of the new Irish Fashion Incubator enterprise centre in the city centre; the reinvention of an existing 7,000 sq building as the centrepiece of the new Ormond campus which will create a new gateway to the LIT facilities as well as to the city; major refurbishment of existing campuses and development of sports facilities infrastructure on multiple sites. Many of these facilities will be developed in conjunction with partners.

Other key elements of the project to follow will include LIT's first student villages for the Ormond and Desmond campuses, as well as an integrated 'DOT' transport system. Other aspects will include the development of new civic spaces on all campuses including Thomond plaza adjacent to Thomond Park, which will link to the existing Moylish Campus with the famous rugby venue.

The highly ambitious programme is in response to the current capacity challenges at LIT as well as an anticipated 30% increase in LIT student numbers, to 9,000, over the period of the plan. In comparison to both national and international standards, LIT is currently under-resourced in terms of infrastructural capacity at the moment when compared to national and international norms. This investment will ensure that LIT staff, students and the wider community will have improved facilities. The facilities will build on the strong academic reputation and the proven track record of enterprise support of LIT which already has three enterprise centres on its campuses providing employment and research opportunities for its graduates and local start up and established businesses.

Said LIT President Dr. Maria Hinfelaar: "This is not just a milestone moment for our Institute but our city and region as we truly believe that this will be a catalyst in the transformation of Limerick and the wider region.

"It's a milestone for us as we are embarking on an unprecedented level of expansion. It will bring LIT to a new level, by not just dealing with existing capacity issues but facilitating increased demand for places on our undergraduate and post-graduate courses. A good example of the current demand for places at LIT is our School of Art and Design, which is ranked in the top 50 such colleges in the world but has 900 CAO applications for just 200 places each year.

"Satisfying student demand for our courses so that the quality of our infrastructure will match the quality of our teaching, our applied research and our enterprise supports, is the cornerstone objective of this Masterplan. We are extremely engaged also with the impact it will have on Limerick City Centre, bringing more people and breathing new life into the city core.

Dr. Maria Hinfelaar and TD Jan O Sullivan

SCIFEST 2013@LIT REVEALS THE SCIENCE BEHIND BIRDS NESTING HABITS, IMPROVING ROWING PERFORMANCE AND TAKES THE SMELL OUT OF SPORTS GEAR BAGS

Post-primary school students from schools all over the Mid-West taking science to the next level with over 150 projects on display at Limerick Institute of Technology

Post-primary school students from all over Limerick city and county, Clare and Tipperary gathered at Limerick Institute of Technology (LIT) Moylish campus to showcase their science projects at one of 15 regional SciFest Science Fairs. Some 150 science projects were displayed at SciFest@LIT, with approximately 400 students from schools all over the Mid-West delving into the deeper realms of scientific exploration with some interesting results. Entries to this year's SciFest have broken all records with up to 4000 students exhibiting their projects at the 15 venues over the next three months. SciFest2013@LIT, officially opened by Kieran O'Donnell, TD, featured a range of scientific discoveries and explorations – the results of which are bound to raise a few eyebrows. Whether teaching affects physical health was put to the test, antiseptic properties of naturally occurring plants were investigated as was the feasibility of space elevators.

The top prize on the day went to 5th year student Conor Foy from Colaiste Chiaran Croom, with his project 'To design and manufacture a device to improve the timing among crew in a rowing', which showcased an app he has made to help with rowing crew performance. The Sustainable Energy Award went to Transition Year students Maria Lyons, Roisin Owen and Kate Gloster from Laurel Hill Colaiste for their project Thermakettle.

Other eye-catching investigations that were showcased at SciFest@LIT included the runner up project award winner Alaine Lee from St Caiman's Community School in Shannon who analysed years of data to show the changes in bird populations as areas become more built-up. Dearbhla Guerin from Colaiste Mhuire in Askeaton who looked at 'The development of race track surfaces in Ireland and the UK over the last 25 years and the benefits that have emerged from these developments'. Winners of the Intel award for best Physical Science project went to Gaelcholaiste Luimnigh students Daniel Enright, Ben Ryan and Brian O'Riordan who have turned their scientific investigations into a mini business. Their Odour abs products solve the age-old problem of smelly gear bags! Tom Bermingham, Ronan Allen and Conor Mackle from Kilrush Community School investigated the feasibility of 'Space Elevators'. They won the Discover Space award for their project 'Catch a falling star'.

In 2012, almost 3,400 students from 227 schools exhibited close to 1,500 projects at SciFest events at third level colleges across the country. An additional 900 students exhibited 400 projects at their own SciFest in-school events.

Please see www.scifest.ie for further information.

LIT HONOURS ITS GRAND SLAM LEADING LADIES

President Dr. Maria Hinfelaar presented former LIT students Joy Neville and Niamh Kavanagh, members of the first ever Irish women's winning Grand Slam team with a commemorative plaque to congratulate them on their success. Both ladies played a crucial role in securing the historic Women's RBS 6 Nations Grand Slam victory.

Joy Neville, who was interviewed by Ryan Tubridy on the Late Late Show, graduated with a BA in Applied Social Care from LIT last year. Joy, who is from the North Circular Road in Limerick, is from a rugby family. Her brother Paul played for Garryowen and Connaght and has recently accepted a coaching position with Garryowen RFC. Joy was recently appointed as the Rugby Development Officer at LIT taking charge of the rugby club within the college. Joy has become a local celebrity since the win but is handling the success well, "I have been involved with the Irish women's side since 2002. I am still in shock, after so many years of hard work and massive commitment levels involved throughout the years, it is amazing to be in a position to state that we are the 2013 Grand Slam winners."

Joy's teammate Niamh Kavanagh hails from Walsh Island, Tullamore but has strong Limerick connections having moved to Limerick to study at LIT in 2007. Niamh is also from a rugby family, her brother Anthony is a flanker for Limerick team Garryowen. Niamh graduated from LIT in 2012 with a BBS in Law and Taxation and was subsequently elected as the LIT Students Union President. It has been a busy year for Niamh, in addition to her success on the rugby field as SU President Niamh recently oversaw the successful amalgamation of the 3 students unions across LIT's Clare Street, Moylish and Tipperary campuses. Niamh recently returned from a trip to Hong Kong & China where she was competing in the IRB Sevens Series with the Irish Women`s 7s Team. Niamh said, "When I first started playing rugby it was to keep fit and meet new friends. Now it is still the same but with a few extra goals on the list. It has been the most amazing and unforgettable few weeks between winning the 2013 Grand Slam and travelling to Hong Kong and China with the Irish Women's 7s Team."

Speaking at the presentation Dr. Hinfelaar said," As a sports fanatic myself, I am so pleased and proud of Niamh and Joy. Not only are they graduates of LIT, they have stayed with us as Students Union President and Rugby Development Officer respectively. They have combined study, work and sport very successfully. I thoroughly enjoyed watching them play that final tough game in Italy to clinch the grand slam and I will be supporting them again next season."

Photo shows from l to r: Niamh Kavanagh, Joy Neville, Dr. Maria Hinfelaar, LIT

LIT TIPPERARY HURLERS WIN LEAGUE TITLE

Congratulations to LIT Tipperary's Hurlers who won the All-Ireland 3rd Level Colleges Division 2 Hurling League Final on December 3rd by defeating Tralee IT on a score line of 0-16 to 0-9.
Played in the most atrocious conditions, the match was delayed owing to the original venue in Martinstown being unplayable. With a pitch eventually secured in Rathkeale, the game finally started around 8.30 p.m. At half time, despite the appalling weather conditions the LIT Tipperary team were 2 points ahead.

In the second half, despite the pouring rain and windy conditions, the Tipperary lads managed to pull away from the opposition by showing true grit, determination and team spirit; and they were deserving winners by the time the full time whistle was blown.

Well done to the entire panel and backroom team of Brendan Maher, Toby Kavanagh and Wayne Fanning.

LIT STUDENTS RAISE €8,500 FOR LIMERICK CHARITIES

Three Limerick based charities received cheques totalling €8,500 from monies raised by LIT School of Business and Humanities students. Geraldine Lambert from the Mid West Simon Community, Mags Naughton from the Jack and Jill Foundation and Kieran O' Brien from Pieta House were presented with their cheques by Dr. Maria Hinfelaar, President of LIT and Mr. Donnacha MacNamara, Head of Department of Business.

In December the students hosted a Christmas Market with products on sale from 40 student-run companies at the LIT Moylish campus. The annual event is the culmination of the LIT "MarketLink Entrepreneur" programme. MarketLink Entrepreneur is a multidisciplinary careers, innovation and entrepreneurship programme for students across all faculties at LIT. The programme is designed to encourage students to develop business ideas, and involves a series of business workshops. One of the workshops was facilitated by vendors from the Limerick city Milk Market who provided training and expert advice to the students on how to operate a market stall.

The students selected the 3 Limerick based charities which would benefit from the proceeds. Commenting on the monies raised by the event Mr. Donnacha McNamara, Head of Department of Business at LIT, said, "In LIT we focus on delivering a real life practical education as part of our educational philosophy of Active Learning. The MarketLink Entrepreneur project allows the student to control planning, procurement, marketing and selling of products. It guides them through the setting up of a small business and allows them to experience the market environment and shows them how competitive they need to be to make sales."

Speaking at the cheque presentation Dr. Maria Hinfelaar, President of LIT, said, "I am delighted with the students' efforts again this year to raise funds for charity and at the same time have fun with their project. I think this year's choice of the three charities is excellent. They really make a difference to people who need extra supports and receive very little State funding, so every euro raised by our students is greatly appreciated."

Photo shows from l to r: Kieran O'Brien, Pieta House, Dr. Maria Hinfelaar, LIT, Geraldine Lambert, Mid West Simon Community, Donnacha MacNamara, LIT and Mags Naughton, Jack and Jill Foundation

MAJOR EDUCATIONAL SPORTS SEMINAR A GREAT SUCCESS

This year LIT's Finance and Professional Studies Department developed a very productive partnership with the Mid West Regional Drugs Task Force (MWRDTF) and Limerick City Sports Partnership to host a major Educational Sports Seminar, themed "Healthy Body, Healthy Mind", which attracted more than 350 students, teachers and coaches, from local schools and colleges.

The invited speakers had a national and international profile, including former Munster and Ireland rugby player, Alan Quinlan, Former Tipperary Hurler John Leahy, who is now an addiction counsellor with the HSE, Nutritionist Catherine Norton, Professor Billy O' Connor, Head of Teaching and Research in Physiology, Graduate Entry Medical School, University of Limerick and Detective Garda Sandra Heelan of the Limerick divisional drugs squad.

ENGINEERING WEEK

Engineering Week ran for five days in mid-December. Second level students were invited to LIT to receive an active lecture on the Leaving Certificate prescribed 'Special Topic' and can then attend workshops in the various disciplines throughout the Electrical/Electronic and Mechanical/Automobile Departments. 379 students from 24 schools attended.

Both these initiatives from SEIT ensure that students from LIT's catchment area interested in studying engineering can visit LIT three times during their senior cycle. The success of Engineering Week as a marketing tool and service to the second level sector relies upon the initiative, interest and dedication of the staff from both the Electrical/Electronic and Mechanical/Automobile Departments. I commend all staff involved and look forward to similar events next year.

Above 1st photo shows from left John Killeen (Principal) of St Patrick's College, Lacken Cross, Co. Mayo with student Padraic Gallagher (competition winner during Engineering week at LIT)
Second photo shows Paddy Keays presenting a camera to David Brosnan a 6th Year student from Crescent College Comprehensive SJ who was a competition winner at LIT's Engineering Week

SPORTS COACHING STUDENTS REACH THE SUMMIT

Students from the Sports Coaching and Development programme within the Department of Finance and Professional Studies went to the Galtee Mountains in April. Facing hail storms, snow and sunshine all in the one day, they summited Galtybeg 799 M. Well done to the students and their lecturer Alan Carr.

SCHOOL OF BUILT ENVIRONMENT RESEARCH NEWS

LIT's School of the Built Environment has gained approval for its first research group. Built Environment – Technology and Educational Research Group (BETER). BETER's future combined focus will be to promote research that informs the development of teaching and learning across the different built environment disciplines, The group is comprised of 6 staff members from within the School, Mr Paul Greaney, Mr. Kevin O' Riordan, Mr. Niall McPartlin, Dr. Rita Scully, Ms. Maria O' Kelly and Ms. Maire Daly.

Photo shows from l to r: Mr. Paul Greaney, Mr. Kevin O'Riordan, Mr. Niall McPartlin, Dr. Rita Scully, Ms. Maria O' Kelly and Ms. Maire Daly

LIT SIGNS UNIVERSITY PARTNERSHIP WITH SCSI

LIT's School of the Built Environment has signed a University Partnership with the Society of Chartered Surveyors Ireland and Royal Institution of Chartered Surveyors (SCSI/RICS) in respect of its BSc. (Hons) in Quantity Surveying, BSc. (Hons) in Property Valuation and Management and its MSc. in Quantity Surveying. The Society of Chartered Surveyors Ireland (SCSI) is the leading professional body for construction, land and property professionals in Ireland.
The agreement means that graduates of these programmes will have fulfilled the initial academic requirements to become Chartered Surveyors. Their qualifications will be recognised by employers both in Ireland and in countries where the RICS is known.

Ms Maria Kyne, Head of School of the Built Environment at LIT, said "This partnership builds on over two decades of SCSI/RICS accredited courses in LIT as LIT continues to expand its range of accredited courses in partnership with the SCSI. The SCSI and RICS are the leading national and international professional bodies for Chartered Surveying. This continued accreditation again endorses the high standard attained at LIT through teaching, research and industry links."

Following the signing of the agreement discussions were held between academics and SCSI members which identified the future skills shortage in the surveying sector which is becoming a significant concern for employers regionally and nationally. Ms Maria Kyne, Head of School of the Built Environment, highlighted that fact that LIT are currently experiencing the effects of this skills shortage, she said, "The demand from employers for our placement students already cannot be met in full."

Picture: Mr Andrew Thompson, Davis Langdon, Mr Peter Levins, Space2Trade, Ms Zoe O'Connor, Director of Education SCSI, Mr Michael Hogan, Capital Assets, Mr Tomas Kelly, Davis Langdon, Mr Noel McKenna, Chairman, Mr PJ Power, Power & Associates

LIT FASHION SHOW

The LIT Fashion Show was once again a roaring success with the event being held for the first time in the Limerick Milk Market. The main sponsor for this year's event was Bord Gais. Nineteen final year students showcased their awe inspiring collections at the event drawing on a myriad of themes ranging from Barbie dolls to east end gangsters. The award for the best overall collection went to Michael Stewert. Well done to all at LSAD for another spectacular year in the fashion department.

EUROPE RISING FASHION DESIGNERS

LSAD Fashion Graduates Karly Hodge, Jane McKenna, Mark Dempsey, Aoidin Sammon and Sinead Leonard feature in the new publication of EUROPE Rising Fashion Designers, which features graduate designers from 21 top design colleges in Europe. The publication will be stocked in the LSAD library shortly.

Well done to the students, their lecturers and tutors.

LSAD GALLERY HOSTS MA SPACE SHOWCASE

The LSAD gallery hosted the MA Social Practice and the Creative Environment (MA SPACE) 2012 Showcase and the launch of the book "Praxis" recently. "Praxis" comprises of a series of authoritative essays on Social Practice combined with a survey of the 2012 MA SPACE graduates. The publication was launched by Dr. Dominique Bouchard, the Hunt Museum Curator of Education and Outreach

LIT TIPPERARY STUDENTS GET ANIMATED

A team of 5 highly creative students from LIT Clonmel were awarded prizes from Tesco and Junction Festival for their latest successful team project. Over the last 3 months they were challenged with creating a piece of animation that would capture the essence of the festival and help to promote the event this year. Their animated video is now on the front page of the Junction website at www.junctionfestival.com

The winning team known as Piranah was led by Jim O Neill and the other members were Vinnie Burke, Paul Geaney, David O Grady and Sean Stokes. All of the students are in the 2nd year Multimedia programme. As part of their module Effective Teamwork, the students worked in 4 teams to complete different technical tasks for the Junction Festival. Students had the experience of working with a real client and creating a piece of work that could showcase their strengths. Well done to the winning team and their lecturer Marie A. Walsh.

Above photo Student Team; Paul Geaney, Sean Stokes, David O Grady, Vinnie Burke and Jim O Neill

LIT SIGNS LANDMARK AGREEMENT WITH CHINESE UNIVERSITY TO BRING HUNDREDS OF CHINESE STUDENTS TO LIMERICK

LIT is set to welcome hundreds of Chinese students following an agreement signed by LIT with Yangtze University in the Chinese city of Jingzhou. President of LIT Dr. Maria Hinfelaar led a delegation from LIT where she signed unique and exclusive agreements with Yangtze University which will see up to 120 Chinese students a year coming to Limerick from 2013 onwards to study at LIT.

The agreement signed with LIT is the first collaborative agreement with an Irish higher education institute for Yangtze University which already has international links with the US, Germany, South Korea, and the UK. Yangtze University is the only university in Jingzhou city, which has a population of 6 million and was once a regional capital city of ancient China. Yangtze University has nearly 50000 students spread over a number of campuses and offers both undergraduate and

postgraduate programmes. The city of Jingzhou is currently undergoing rapid expansion and major infrastructural development. The first wave of Chinese students coming to LIT will study in the areas of civil engineering and construction management with further programmes in other discipline areas being explored. In a unique agreement Chinese students will study for the first three years at Yangtze University on an LIT recognised programme and then complete their final year of study at LIT. Head of School of the Built Environment, Ms Maria Kyne, who was part of the LIT delegation to China said, "The School looks forward to working in collaboration with Yangtze University and to welcoming the Chinese students to our programmes. The School of the Built Environment has a long tradition of providing construction, property and civil engineering education in the Mid-West Region.'

The innovative LIT agreement with Yangtze University comes as a result of a series of meetings between the executive teams at both colleges over the past number of months. In August of this year Professor Xi Chuanjin, Dean of the International College at Yangtze University visited LIT to meet with faculty from the School of the Built Environment. The agreement will be developed to allow for LIT student mobility which will benefit LIT students interested in studying in China. Other areas of cooperation being discussed include staff mobility and research activities.

Dr Hinfelaar, President of LIT, welcomed the agreement with the Chinese University, "The demand for more qualified professionals in the construction and civil engineering professions in China is growing which is why tuition and accommodation costs for the students who will come to LIT will be covered by the Chinese government. The presence of Chinese students will greatly enhance the international experience of all our students on campus."

This agreement is the third major announcement for LIT since the beginning of the academic year: in September the Institute announced details of its ambitious €200m Campus Masterplan and last month LIT was awarded the Sunday Times Institute of Technology of the Year for 2012/13.

CROOM COMMUNITY ENTERPRISE CENTRE OPENED BY MINISTER JAN O' SULLIVAN

The Croom Community Enterprise Centre was officially opened by Minister of State Jan O'Sullivan TD, Department of Environment, Community and Local Government last week. In her speech, the Minster praised the work of the local community who worked collaboratively to bring this project to fruition. The centre is a culmination of the joint efforts of several agencies working together, Enterprise Ireland, Limerick County Council, Limerick County Enterprise Board, Ballyhoura Development, Limerick Institute of Technology and Croom Community Development Association.

The opening was also attended by Jerome Scanlan, Cathaoirleach Limerick County Council, Catherine Hogan, Enterprise Ireland, Maria Hinfelaar, President of LIT and Denis Brosnan, local businessman. CREATE (Croom Rural Enterprise Accelerate Training and Education) programme was launched at the event and a bootcamp for this course took place after the official opening. The CREATE programme targets individuals looking to start a business or individuals who have recently set up a business and are looking for some guidance and focus on the many areas which are involved in running a successful business. The programme will be facilitated by LIT trainers and is funded by Ballyhoura Development under the Rural Development Programme. The programme will run for four Saturdays in June commencing 8th June, limited places are still available.

A coffee morning will take place Thursday 23rd May at 10am in Croom Community Enterprise Centre to provide some more information on CREATE programme to those potential participants. If you are interested in attending or require more information on CREATE , please contact Belinda Murphy, Business Development Manager, Croom Community Enterprise Centre, belinda@croomenterprisepark.com, 087 9584430.

LIT & PARTNERS WIN €11M EU RESEARCH PROJECT

A Limerick Institute of Technology (LIT) based research team is to take part in an €11m European Union funded research and development project aimed at reducing the amount of energy used in older buildings. Buildings consume about 40% of total final energy in Europe, and those buildings built before 1980 represent 95% of this energy consumption.

The project which has 23 partners across Europe is titled "Affordable and Adaptable Public Buildings through Energy Efficient Retrofitting" or A2PBEER for short. The project aims to reduce the amount of energy used in older buildings through the development of a systemic, energy efficient buildings' retrofitting methodology for public buildings which will take advantage of synergies derived from interventions at district level.

Mr Ciaran Lynch, Development Manager at LIT said, "This is a novel and exciting project which will have real impact on energy consumption. The low renovation rate of building stock (1% per year) means that boosting retrofitting to achieve more energy-efficient buildings is the only way to reach EU's "20-20-20" targets. The higher impact will be achieved through interventions in non-residential buildings, as their energy consumption is 40% higher than in residential buildings with public buildings more than 30% of the non-residential buildings in the EU. LIT's experience in retrofitting as part of the EU SERVE Project completed in 2012 was one of the reasons it was invited to become a member of the A2PBEER partnership."

A2PBEER will use existing methodologies as well as more innovative ones developed by the project. The A2PBEER results will also be applied to three complementary virtual projects addressing climatic areas and end-uses not included in the practical programme. LIT will lead the development and implementation of a comprehensive "Train the Trainer" programme which will include on-line delivery. An innovative market approach will allow results to be transferred to all key players of the value chain, with a special focus on SMEs. In addition transferability to social housing will be also addressed.

The overall project value is €11 million with €7million of this being provided by the EU. The LIT element of the project is €280,000 of which €246,000 will be provided by the EU. Dr. Maria Hinfelaar, President of LIT welcomed the funding news, "LIT is a big player in delivering the sustainability agenda. We run courses as well as research projects on themes such as renewable energy, monitoring energy usage and low-carbon building technologies. We are very proud to be part of this major European project.

LIT LAUNCHES STUDENT GUIDE TO MENTAL WELLNESS AND WELLBEING

To coincide with World Mental Health day and as part of the LIT Mental Health Week, LIT launched a Student Guide to Mental Wellness and Wellbeing. The Guide covers issues such as adjusting to college life, building your resilience (which is the theme of this year's mental health week), tips for stress relief, relaxation, and support details.

LIT takes its role in promoting positive mental health among its student community very seriously and this guide is yet another example of the activity of the counselling service at LIT. The guide is very positive in its orientation, and encourages students to reach out, seek help and support and to talk to a professional if the situation becomes too difficult.

Speaking at the launch LIT President Dr Maria Hinfelaar said, "The guide is a very visually appealing and quirky publication which we hope will appeal to all students and a book that they will keep as a resource should they or a fellow student, friend or family member ever need it. The guide will also be available online to download from the Student Counselling Webpage."

LIT Student Counsellor Noreen Keane offered the following advice to students, "It is important to remember that all of us suffer from mental health problems at times, and such temporary problems do not necessarily lead to mental illness. However, being mentally unhealthy limits our potential as human beings and may lead to more serious problems which is why it is important to seek help if you feel things getting on top of you. We invite all our students to talk with friends and family about mental illness and recovery especially this week, Mental Health Week. It is an opportunity to learn facts and end myths to help break the stigma and silence that too often surrounds this topic."

Photo shows from l to r: Dr. Maria Hinfelaar, President, LIT, Ms. Noreen Keane, LIT Student Counsellor, Ms. Niamh Murphy, LIT Student Counsellor, Ms. Linda Barry, Academic Administration and Student Affairs Manager, Dr. Frank Houghton, Lecturer, LIT.

LIT WELCOMES RECOMMENDATIONS TO DEVELOP LIMERICK AS A CENTRE FOR TEACHER TRAINING

Dr. Maria Hinfelaar, President of LIT has welcomed the recommendation set out in a report from an international group of experts that proposes the concentration of teacher training providers in Limerick. The report was commissioned by the Minister for Education and Skills, Ruairi Quinn to identify new possible structures to improve teacher education in Ireland so that it is comparable with the best in the world. The Minister signalled last week that he would adopt the recommendations and task the Higher Education Authority with working out implementation details.

Speaking from LIT this week Dr. Hinfelaar said, "LIT welcomes the publication of this report and looks forward to intensifying collaboration and exploring synergies with the University of Limerick and Mary Immaculate College to develop Limerick as a Centre of Excellence for teacher training at all levels. LIT particularly welcomes recommendations that the Higher Diploma in Art for Art and Design Teachers will continue to be embedded in the LIT School of Art and Design where we have the staff expertise and creative environment necessary to produce high calibre teachers in the field."

LIT has strong existing ties with the University of Limerick and Mary Immaculate College through the Shannon Consortium which was established in 2006 along with Tralee IT to allow the four institutes to engage in joint access programmes, teaching and learning innovations and led to the establishment of a highly successful joint procurement network.

Last week LIT unveiled plans for a €200m Campus Masterplan in response to unprecedented growth in student numbers across LIT discipline areas such as Art and Design, Engineering and Humanities.

LIT CONFERRING CEREMONIES

Over 1600 students graduated from our 5 schools with ceremonies held in Moylish, Clare Street and our Tipperary campus. As well as over 1600 undergraduates we conferred 4 Phd awards, 14 research Masters and 74 specia awards. The ceremonies were a wonderful tribute to the hard work and dedication of our staff and of course the students themselves. Well done to all involved!

The hallmark of our educational philosophy is active learning through a fusion of theory and practice.

11 APPENDIX 1

STUDENT STATISTICS RETENTION & COMPLETION

A.1.

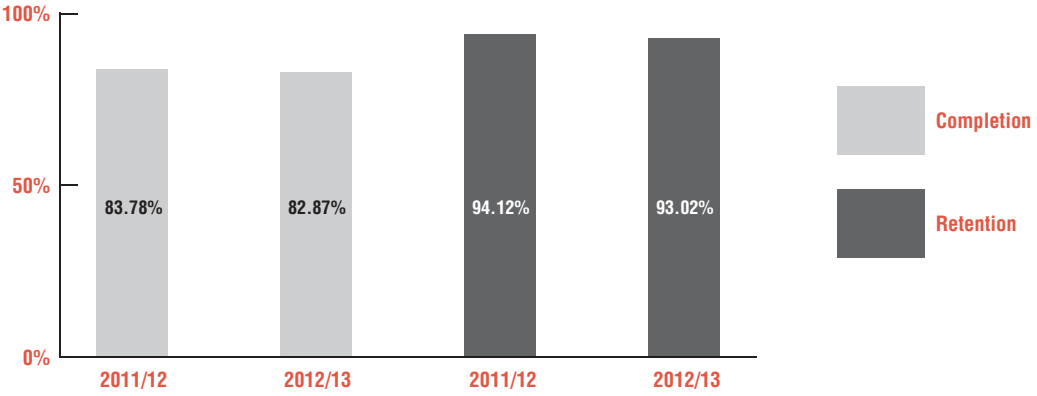
LIT Undergraduate Statistics by Department Full-time students	Completion % 2011/12	Completion % 2012/13	Retention % 2011/12	Retention % 2012/13
LIT Tipperary School				
Dept of Buss, Education & Social Sciences	83.68%	85.26%	92.99%	93.80%
Dept of Technology, Media & Science	71.26%	68.70%	92.99%	90.16%
School of Business and Humanities				
Dept of Business	83.73%	81.15%	95.88%	93.26%
Dept of Humanities	89.86%	91.54%	97.38%	95.25%
School of Art & Design	95.82%	95.07%	95.30%	94.85%
School of Science, Engineering & IT				
Dept of Information Technology	74.15%	73.99%	89.96%	92.32%
Dept of Electrical & Electronic Eng	77.74%	78.29%	92.01%	94.92%
Dept of Mechanical & Automobile Eng	86.01%	77.58%	93.49%	88.34%
Dept of Applied Science	80.95%	78.55%	94.70%	88.74%
School of the Built Environment				
Dept of Built Environment Management	80.88%	82.70%	93.40%	92.14%
Dept of Construction & Civil Engineering	83.53%	70.83%	92.74%	90.40%
Institute Undergraduate Total	83.78%	82.87%	94.12%	93.02%

A.2.

LIT Undergraduate Statistics by School Full-time students	Completion % 2011/12	Completion % 2012/13	Retention % 2011/12	Retention % 2012/13
LIT Tipperary School	77.87%	77.99%	92.99%	92.20%
School of Business and Humanities	87.59%	88.06%	96.83%	94.59%
School of Art & Design	95.82%	95.07%	95.30%	94.85%
School of Science, Engineering & IT	78.96%	76.98%	92.19%	91.63%
School of the Built Environment	82.04%	77.39%	93.10%	91.33%
Institute Undergraduate Total	83.78%	82.87%	94.12%	93.02%

A.3

LIT Undergraduate Statistics by School Institute Undergraduate Total



B.1

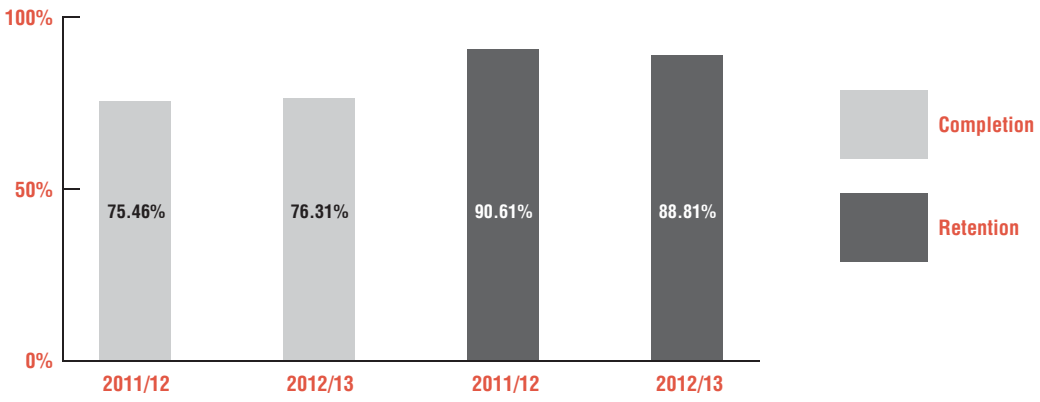
Year 1 Statistics by Department Full-time students	Completion %	Completion %	Retention %	Retention %
	2011/12	2012/13	2011/12	2012/13
LIT Tipperary School				
Dept of Buss, Education & Social Sciences	81.06%	76.88%	92.38%	90.54%
Dept of Technology, Media & Science	59.86%	56.43%	86.67%	84.73%
School of Business and Humanities				
Dept of Business	67.29%	72.86%	90.48%	90.15%
Dept of Humanities	87.10%	87.99%	96.01%	90.73%
School of Art & Design	94.97%	92.96%	97.16%	94.95%
School of Science, Engineering & IT				
Dept of Information Technology	66.44%	71.79%	86.11%	92.90%
Dept of Electrical & Electronic Eng	63.35%	74.03%	84.85%	92.81%
Dept of Mechanical & Automobile Eng	81.75%	75.94%	90.00%	82.98%
Dept of Applied Science	74.75%	70.59%	91.49%	75.47%
School of the Built Environment				
Dept of Built Environment Management	48.98%	56.90%	81.25%	81.36%
Dept of Construction & Civil Engineering	66.67%	60.34%	86.67%	84.38%
Institute Undergraduate Total	75.46%	76.31%	90.61%	88.81%

B.2

Year 1 Statistics by School Full-time students	Completion %	Completion %	Retention %	Retention %
LIT Tipperary School	70.07%	67.73%	89.17%	87.81%
School of Business and Humanities	81.61%	83.26%	94.49%	90.56%
School of Art & Design	94.97%	92.96%	97.16%	94.95%
School of Science, Engineering & IT	70.65%	73.21%	87.62%	87.03%
School of the Built Environment	58.72%	58.62%	84.26%	82.93%
Institute Undergraduate Total	75.46%	76.31%	90.61%	88.81%

B.3

Year 1 Statistics by School Institute Undergraduate Total



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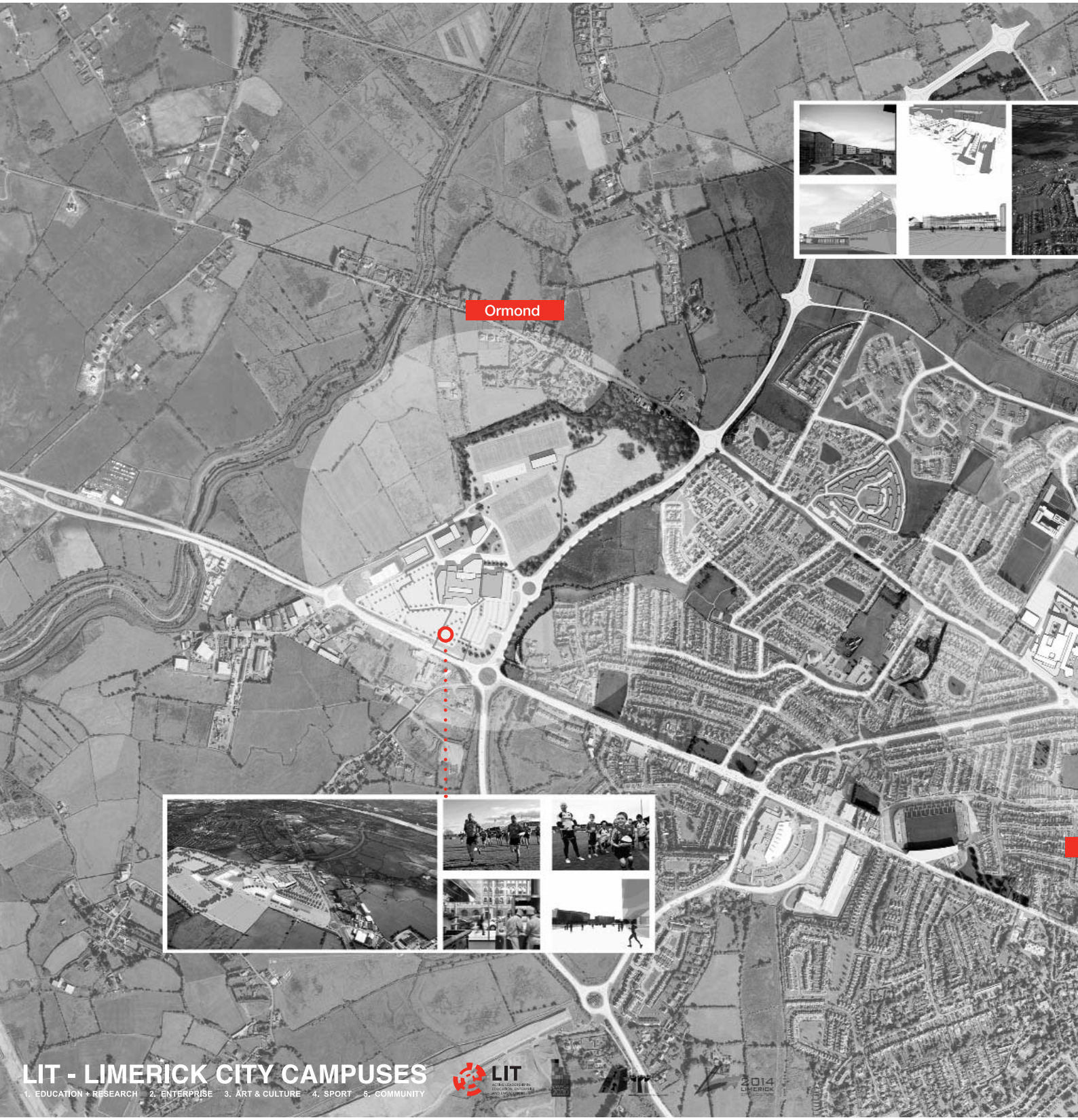

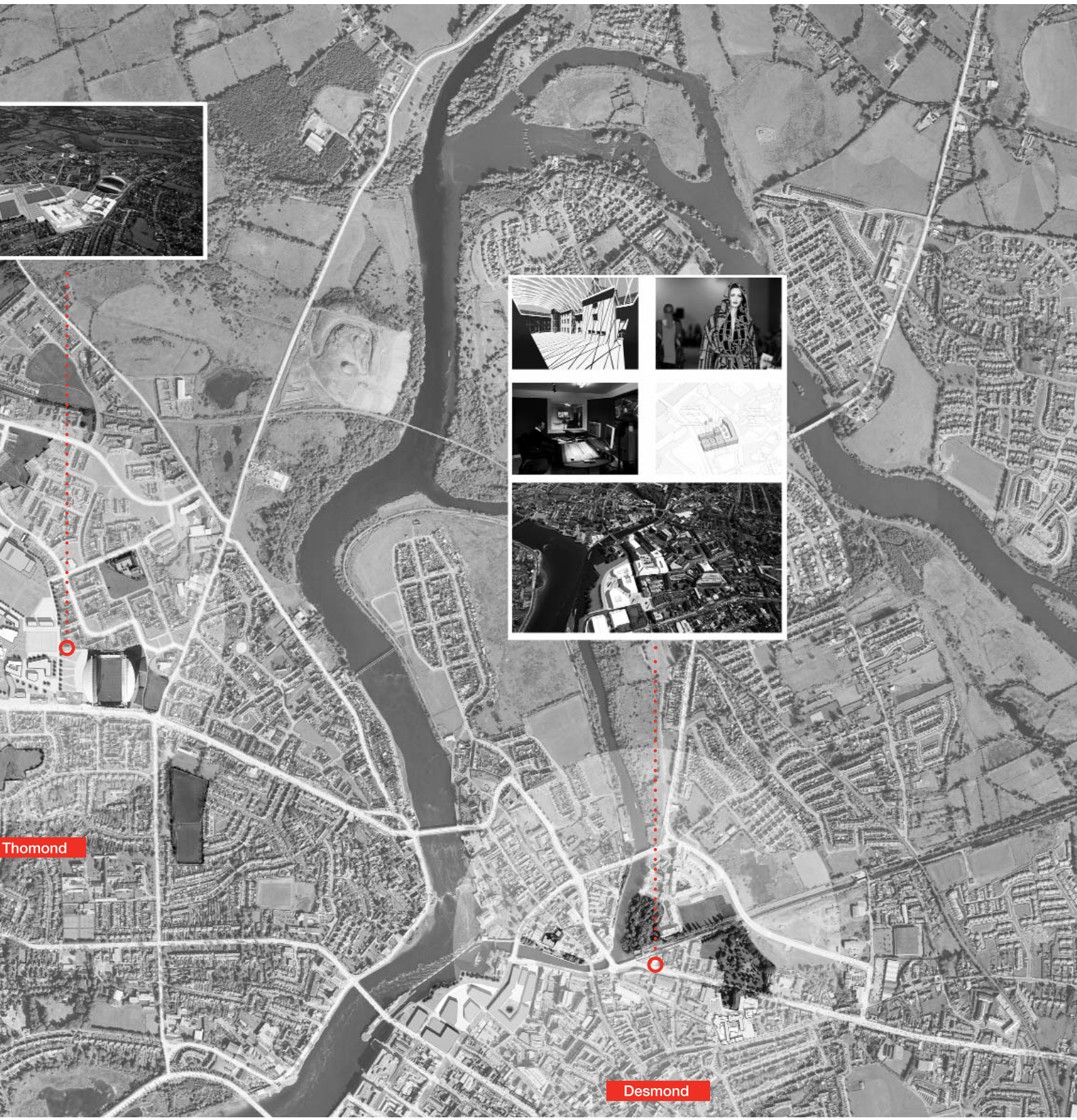
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