

ice | northern ireland

ice
Institution of Civil Engineers



ICE NI Annual Report & Accounts 2008 - 2009

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Vision

Our vision is to be a leader in shaping the engineering profession, and to be recognised as the leading source of the knowledge and skills needed to create a sustainable natural and built environment for future generations.

About ICE

The Institution of Civil Engineers is a global membership organisation that promotes and advances civil engineering around the World. Founded by a small group of civil engineers in a London coffee house in 1818, ICE has now nearly 80,000 members in 150 countries.

ICE is governed by Royal Charter which was first granted in 1828 and registered as a charity with the charity commission. Our charitable objective is to foster and promote the art and science of civil engineering.

Institution of Civil Engineers Then & Now

ICE Then & Now

1818

The Institution of Civil Engineers is founded in a London Coffee House. Currently, worldwide ICE membership stands at over 80,000.

1820

Thomas Telford becomes President of ICE. Poet Laureate, Robert Southey terms Telford the 'Colossus of Roads'. The current President Jean Venables makes her own history as the first female President of the Institution.



2009

This year sees ICE NI's Emer Murnaghan providing oral evidence to the Department of Environment's Climate Change Conference.



2007

October 2007 sees ICE NI hold the Climate Change Conference at the Waterfront Hall.

1934

The Northern Ireland Association of the Institution of Civil Engineers formed by Major Percy Shepherd. In 1934 the membership stood at 98. Current ICE NI membership stands at 1847.



1952

Dr. Denis Rebbeck becomes Chairman of ICE NI. Dr Rebbeck later goes on to become Managing Director of Harland & Wolff. During this period, H&W launch the United Kingdom's first large crude carrier (VLCC). In recent years H&W have diversified into the renewable energy sector particularly manufacture of wave and wind power installations.

Current ICE NI Chairman, Prof. David Cleland, heads up QUB's School of Planning, Architecture and Civil Engineering, whose Wave Power Research Group is regarded as being among the best marine renewable energy groups in the world.



1963

Mr CP Milway is Chairman of ICE NI. Mr Milway's granddaughter, Jude, continues the Milway association with ICE NI as the regional Support Team's Regional Administrator.

1980

The ICE NI Golfing Society's Milway Cup is collected by Tom Bill. This year's Milway Cup victor is Paul Johnson after an outing held at Belvoir Park Golf Club.

1999

The Department of Environment football team win the Annual ICE NI G & S Five a Side Competition with Tommy Breslin, John McMullan and David Johnson starring. Scott Wilson B hold the five a side title currently, with the competition being held at UUJ in March 2009.



1988

The Annual Dinner is held at the Culloden Hotel attracting 420 members and guests. The Europa Hotel was the venue for the 2008 Annual Dinner attracting 525 members and guests.

1. Chairman's Foreword

It is my pleasure as Chairman to introduce the 2008/09 Annual Report for the Northern Ireland Region of the Institution of Civil Engineers. You will already be aware that this year, for the first time, the Annual Report has not been distributed to all members in hard copy. This decision, which was reached after much discussion and deliberation, was made to save money as well as trees! While the medium has been changed I hope you find the content and the presentation of the same high quality. It includes reports from the Regional Committee and the Regional Support Team who have been extremely active on your behalf in 2008/09.

An important and core activity is the Learned Society aspect of the Institution. The evening lectures, nearly all joint events, were once again from a mix of excellent speakers, both from the region and from further afield. The latter exposed us to exciting work outside the province; two of note this year were the lectures on the Halley VI Ice Station and, Transport for the London Olympics.

A further example of activity is training for members of all grades and during the year the Committee ran a Management Masterclass which was warmly praised by all those who attended. The Graduate and Students Committee held a very successful conference (replacing the long-standing Study weekend) in the Radisson Roe Valley Hotel, Limavady. The Conference took as an over arching theme, 'Professional Development and Professional Qualifications', taking great input from a host of ICE Members generously sharing their experiences on the subject. A successful weekend all round and a great source of information for our career savvy Graduate members.

In the Northern Ireland Region we continue to promote membership at all grades. The Graduate and Students Committee, along with the Regional Support Team, visit the Universities to encourage students to join the Institution. Through Graduate Forums and the work of the Assistant Regional Director we aim to encourage greater numbers of graduates through the Professional Review and transfer to Corporate Membership. Personally I have an aim to see more Northern Ireland members at senior level transfer to Fellowship. This was part of the motivation for the President's Breakfast in the Waterfront Hall in December 2008. To advance this aim I am keen to encourage and help anyone intending to apply for transfer.

In recent years our Committee and Regional Support Team have intensified activity with pre-19's (ICE jargon for school children) The Civil Engineering in Primary Schools project was again supported by ICE's group of first class science and engineering ambassadors whose efforts were widely praised by the schools involved. Celebration events were held in Omagh and Belfast, with the schools situated in the west of the region, particularly pleased with the Omagh location. The Region's Bridges to Schools project was introduced to a record number of schools



Personally I have an aim to see more Northern Ireland members at senior level transfer to Fellowship.

To advance this aim I am keen to encourage and help anyone intending to apply for transfer.

The Institution is not immune from the current economic recession, and the next few years will pose financial challenges.

I can assure you however, that this committee is giving serious consideration to how we can become more efficient.

across the length and breadth of the region. The primary school children enjoyed the participation and learned much from their experience and their exposure to the work of civil engineers. New for 2008/09 was the Week of Wonder in February 2009 which involved a series of events co-ordinated jointly with Engineers Ireland. While all of these activities are professionally organised by the Regional Support Team we are dependent on volunteers and sponsors to whom we express our thanks.

The ICE has continued to work consistently to increase its influence with government and the public. Arguably this has never been more important than at this difficult time for the economy and the construction industry in particular. Our representation on the Professional College of the Northern Ireland Construction Group has been increased with Lynda Martin (as Chair), Sam Phillips and John Mulholland as members. In October 2009 we produced a State of the Nation Northern Ireland Transport Briefing Sheet to accompany the ICE's report from London and in early 2009 we seized the opportunity to produce a special publication entitled 'Challenging the Priorities- a Review of Northern Ireland's Infrastructure'. This has been presented to government and public bodies and was formally launched at the All Island Infrastructure Conference in Belfast in March 2009 by ICE NI Regional Director, Wendy Blundell.

The social and networking aspect of the Institution's activity is important because of the interdisciplinary nature of our industry. In spite of the gathering economic clouds the Derry and Omagh Lunches and the Annual Dinner were all very well attended. The latter was the best attended dinner of any engineering or construction professional body in Northern Ireland in 2008/09. As Chairman and on behalf of the Committee I express our thanks to the members and companies for their continued support.

The Institution is not immune from the current economic recession, and the next few years will pose financial challenges. I can assure you however, that this committee is giving serious consideration to how we can become more efficient and retain quality activities. These will involve change but every effort will be made to safeguard the activities which members have identified as priority. Whatever the challenges my best wishes go to next year's Chairman, Jonathan Hegan, and those to follow including the new vice-chairman, Jo Aston.

*Prof. David Cleland
Chairman ICE NI
June 2009*

David Cleland's Chairman's Address from September 2009, 'The Making of a Civil Engineer' is available via http://www.ice-northernireland.org.uk/publications/publication_view.aspx?PublicationID=182, and is represented in the form of slides from the presentation.

2. Period of Report

This report covers the period of 1st July 2008 to 30th August 2009.

3. Membership

The present membership of the Northern Ireland Region is 1847. The following table gives a breakdown by grade of membership with comparisons for the four previous years.

	08/09	07/08	06/07	05/06	04/05
Fellows	88	86	84	92	96
Members	836	838	835	828	850
Graduates	403	392	387	385	379
Students	479	505	484	498	382
Incorporated Eng	23	14	16	21	25
Associate Members	15	16	17	5	3
Technicians	3	3	3	4	7
	1847	1854	1826	1833	1742

4. Working Party Members

Dinner Secretary	Ron Coates, BSc, MSc, CEng, MICE
Londonderry Luncheon	Frank Morrison, CEng, FICE
Benevolent Fund	David Stewart, CEng, FICE
Notice Editor	Sinead Glackin
Webmaster	Sinead Glackin

5. Committee and Sub-Committee Members

(a) Members of Committee and Officers of the Association

Chairman	Prof D Cleland, BSc, PhD, CEng, FICE
Vice-Chairmen	J Hegan MSc, DIC, CEng, FICE W Gowdy, BSc, CEng, CEnv, FICE IR Long BEng, CEng, MICE
Past Chairman	M Lowry BSc, CEng, FICE
Corporate Members	D Lavery, DPhil, BEng, CEng, MICE S Orr, BEng, CEng, MICE C McAleenan, MPhil, CEng, MICE R Coates BSc, MSc, CEng, MICE D Porter BEng, CEng, MICE, MIHT R Nicholl BEng, CEng, MICE
Hon Secretary	K McShane, BEng, CEng, MICE
Hon Treasurer	L A Martin, BSc, DPhil, CEng, MICE
Hon Asst Secretary	S Orr, BEng, CEng, MICE
Hon Auditors/ Reviewers of Accounts	S Orr, BEng, CEng, MICE N Fletcher, BEng, CEng, MICE

(b) Transportation Representative

Member Representative M Atkinson, BEng, CEng, MICE

(c) Geotechnical Group

Chairman M Cassidy, BEng

(d) Graduates and Students Representatives

Corporate Rep	K Haslett, MEng, CEng, MICE
Chairman	J Templeton, MEng
Hon Secretary	E Millen, BEng
Hon Treasurer	C Maguire, BEng
Member Rep	R O'Hagan, BEng, PhD

(e) Regional Executive Board

Chairman	Prof D Cleland, BSc, PhD, CEng, FICE
Secretary	K McShane, BEng, CEng, MICE
Members	W Blundell, MEng, CEng, MICE M Lowry BSc, CEng, FICE IR Long, BEng, CEng, MICE L A Martin, BSc, DPhil, CEng, MICE J Hegan, MSc, DIC, CEng, FICE W Gowdy, BSc, CEng, FICE J Templeton, MEng

(f) Civil Engineers Club

NI Representative M Lowry, BSc, CEng, FICE

(g) Regional Office

Regional Director	Wendy Blundell, MEng, CEng, MICE
Asst Regional Director	Emer Murnaghan, BEng, CEng, MICE
Communications Executive	Sinead Glackin
Regional Administrator	Jude Milway

(h) ICE Council Members who were NI ICE members during the session.

Council Representative W Gowdy, BSc, CEng, FICE

6. List of Ordinary Meetings and Visits

2008

- 15 September Annual General Meeting and Chairman's Address, Prof. David Cleland, Queens University Belfast.
- 03 October Londonderry Lunch, 'Developments at Derry City Airport', John Kelpie, Derry City Council.
- 13 October 'A1/M1 Cross Border Link', Kieran Doyle, SIAC (NI) Ltd and Michael Noonan, RPS Consulting.
- 14 October 'Management Masterclass' with Prof Philip Hesketh, NI Science Park, Belfast.
- 27 October 'Management of Bridges for Waterways Ireland', Jim Harvey, Waterways Ireland and Brian M.Devlin CEI Collins Engineering co-presenting.
- 03 November 'Halley VI Ice Station', Gemma Clarke, AECOM. A Joint Meeting with Institution of Structural Engineers.
- 10 November Northwest Lecture, 'Road Development in the North West', Uel Wilson DRD Roads, Northern Division.
- 04 December Annual Dinner, Europa Hotel, Belfast.

2009

- 12 January 'Future of Flood Risk Management', Richard Ashley, University of Sheffield, A Joint Meeting with CIWEM.
- 26 January 'Ashford Tunnels- Geotechnics in Construction- a Case Study' Howard Roscoe, Atkins Geotechnics.
- 09 February 'Dargan Road Landfill: Realising the Asset- Addressing the Liability' Tim Walker, Belfast City Council and Terry Boniface, Golder Associated (UK) Ltd.
- 23 February 'Partnering in Practice: Observations on NEC Contracts in NI' James Golden, QuiggGolden, Gary Curran and Paul Davidson NI Water.
- 02 March ICE Graduates and Students Papers Competition (Brennan Cup), Queens University Belfast.
- 23 March 'Renault F1 Team Computational Aerodynamics Research (CAR) Centre', Lesley Paine, Scott Wilson. A Joint Meeting with the Concrete Society.
- 03 April Omagh Lunch, 'A Look Back at Railways West of the Bann', Charles Friel.
- 20 April 'Transport for Olympics 2010', Hugh Sumner, Olympic Delivery Authority, Director of Transport.

7. Past Chairmen, Hon Secretaries and Treasurers

Chairmen

1933-34 Major Shepherd
 1934-35 Mr R B Donald
 1935-36 Mr J S Munce
 1936-37 Mr J G Wilkin
 1937-38 Mr C F Wheeler
 Prof. Hummel
 1938-39 Mr R Ferguson
 1939-40 Mr R Ferguson
 (in place of
 Major McCreary)
 1940-41 Mr R E L Clarke
 1941-42 Mr R D Duncan
 1942-43 Mr S H W Middleton
 1943-44 Mr J A Caskey
 1944-45 Mr J H Thompson
 1945-46 Prof. A H Naylor
 1946-47 Mr W T Slater
 Prof. A H Naylor
 1947-48 Col R McCreary
 1948-49 Mr H E Campbell
 1949-50 Mr J H A Patton
 1950-51 Mr R H Patterson
 1951-52 Mr W Grigor
 1952-53 Dr D Rebeck
 1953-54 Mr J J Hartley
 1954-55 Mr E A F Johnston
 1955-56 Mr R J W Murland
 1956-57 Mr E V Walshe
 1957-58 Mr J E F Anderson
 1958-59 Mr R E D Blain
 1959-60 Mr A Webb
 1960-61 Mr E H Sidwell
 1961-62 Mr A H K Roberts
 1962-63 Mr G F Perrin
 1963-64 Mr C P Milway
 1964-65 Mr S O Morton
 1965-66 Mr R N Collins
 1966-67 Mr W J McDowell
 1967-68 Mr H K Scott
 1968-69 Dr I G Doran
 1969-70 Mr H K Ballantyne

1970-71 Mr A C Pinkerton
 1971-72 Mr T A N Prescott
 1972-73 Mr F F Poskitt
 1973-74 Mr J McClure
 1974-75 Mr C G H Filor
 1975-76 Mr I S R Farquharson
 1976-77 Mr J A de M Greeves
 1977-78 Mr J I Bill
 1978-79 Mr G S Millington
 1979-80 Mr J Scott
 1980-81 Mr R T Huston
 1981-82 Mr S T Bratty
 1982-83 Mr T A Warnock
 1983-84 Mr R A Bryson
 1984-85 Mr D S Dunlop
 1985-86 Prof. A E Long
 1986-87 Mr E Gourley
 1987-88 Prof. R B Schofield
 1988-89 Mr N M Gillespie
 1989-90 Mr J A Hill
 1990-91 Mr T Patterson
 1991-92 Mr J N Finlay
 1992-93 Mr D Stewart
 1993-94 Mr J A C McFarland
 1994-95 Mr A J C Allen
 1995-96 Mr J R Gillvray
 1996-97 Mr J Brennan
 1997-98 Mr G A Cooper
 1998-99 Dr P T Donald
 1999-00 Mr J Mulholland
 2000-01 Mr D Finnegan
 2001-02 Mr M Stevenson
 2002-03 Mr G Perrin
 2003-04 Mr D M Orr
 2004-05 Mr D McQuillan
 2005-06 Mr W A Strong
 2006-07 Mr J McMillen
 2007-08 Mr M Lowry

Honorary Secretaries

1933-38 J E Harben
 1938-42 S H W Middleton
 1942-44 R H McCullough
 1944-47 E V Walshe
 1947-60 E H Sidwell
 1960-70 C G H Filor
 1970-73 G S Millington
 1973-76 S T Bratty
 1976-80 R M Turner
 1980-84 J A Cargo
 1984-88 H Stewart
 1988-91 J Mulholland
 1991-94 W J Gillespie
 1994-97 D M Orr
 1997-00 R D McFaul
 2000-03 I R Long
 2003-06 J Chambers
 2006-09 K McShane

Honorary Treasurers

1933-66 R Ferguson
 1966-73 J A de M Greeves
 1973-79 D S Dunlop
 1979-85 J A Hill
 1985-90 J C Thompson
 1990-95 G A Cooper
 1995-01 D McQuillan
 2001-05 M Lowry
 2005-09 L A Martin



8. Past Recipients of Ferguson and Poskitt Medals

Ferguson Medal

- 1982-83 D Stewart
- 1983-84 P Stalker and A K Bell
- 1984-85 M R Shaw
- 1985-86 No Award
- 1986-87 No Award
- 1987-88 F F Poskitt and G A Cooper
- 1988-89 J Workman
- 1989-90 J McCormick
- 1990-91 D McQuillan
- 1991-92 G A Cooper
- 1992-93 D Logan
- 1993-94 R J Hegan
- 1994-95 D McQuillan and R N Roulston
- 1995-96 P T Donald
- 1996-97 P T Donald and S Heaney
- 1997-98 D Stewart
- 1998-99 A Bell and T Whittaker
- 1999-00 L Martin
- 2000-01 W McCamley, S Heaney and A Bisp
- 2001-02 B Cairns, C Spence and J Vincent
- 2002-03 P Brown
- 2003-04 S Aston and J Quinn
- 2004-05 M R Shaw, M Coleman and J McHale
- 2005-06 R Hunter, L Martin, T McCourt and A Seywright
- 2006-07 P Brown
- 2007-08 AE Long and S Taylor

Poskitt Medal

- 2008-09 A Skates and P Ronicle



Achievements & Performance

The SeaGen tidal energy convertor installation situated in Strangford Lough since April 2008. The installation is the worlds firstword's first commercial scale tidal energy system, generating clean energy for over 1000 homes.

9. Committee Report

2008-2009 has been a difficult year in business with the worst economic climate that I have seen throughout my career. Having started to work in 1989 and buying my first home when the interest rates were 15% I can say that I quickly survived that difficult period. However the current climate is even more marked than that period from the 1990's and it may take a few more years to get back to normality. It is in this light that we have to look at the positive contribution that your Institution has made to society and to the professional way that our members have contributed to Northern Ireland.

Looking first at the Regional Office, we have to be proud of the achievements that have been made by the Regional Team and the improved level of service that we have achieved throughout the year. It is hard to think that a few years ago we relied wholly on the volunteers and now we have expanded the work carried out for our Region with the support of Wendy, Sinead, Jude and Emer. This team actively work with the Committee to deliver the issues that have been identified through the membership satisfaction surveys over the last few years. Each year we are humbled by the strong support that is offered by the Northern Ireland members and each year we strive to enhance the contribution that we make to the Institution.

This year we have taken on board the issue of raising the profile of the Institution with our elected members and key personnel within the Engineering and Government bodies. As well as attending a number of Political Conferences throughout the year we have contributed to various debates which have included briefings and discussions with the Permanent Secretaries on the infrastructure requirements and improvements to the Statutory Systems within Northern Ireland. These have included a review of the Rapid Transit Proposals, the Planning System, issues impacting upon the Construction Industry and our Infrastructure. Emer Murnaghan led a team carrying out a review of Northern Ireland's Infrastructure, the results of which were presented by Wendy Blundell at the All Island Infrastructure Conference in Spring 2009. This generated significant positive media coverage for the Institution throughout the year. Our thanks in particular go to a number of past Committee members including Douglas Ferguson, Alan Strong and Geoffery Perrin for the immense effort and time that they contributed to the various submissions that were made on a number of topics throughout the year.

Following our growing involvement with the Construction Industry Group ICE became a full member of the group during this session. This increased the number of representatives that ICE has on this group and we have been well represented by Sam Philips, John Mulholland and with the new Chair, Lynda Martin. All three have used the forum to put forward the issues impacting upon the whole Construction and Engineering Industry and give us another voice to help our members.



We have to look at the positive contribution that your Institution has made to society and to the professional way that our members have contributed to Northern Ireland.

This Institution is in safe hands, however it is your Institution so please do try and take an active involvement.

This year's technical programme was once again the envy of the other Institutions with a wide range of events and evening meetings. The quality of the events was reflected in the strong support from the members and from the excellent debate that took place at each event. We started the year with a review of developments at the City of Derry Airport and continued the transport theme with a contractor's and designer's view on the recently completed A1 / M1 Cross Border Road covering the difficult bridge and road design beside the live Belfast-Dublin railway line. Bridge themes continued with an overview of the Management of Bridges for Waterways Ireland and this was followed by an intriguing paper on the design and construction of the Halley VI Ice Station by Gemma Clarke. It is great that we can attract exceptional speakers on International topics such as this. 2008 ended with a review of the major road developments in the North West and Uel Wilson set out the difficulties that we had on trying to fast track the design, approval and construction of the key infrastructure for the country. Despite best efforts to bring forward the procurement, the implementation and to create jobs there are still a number of Statutory and European Legislations that take an immense time and must be satisfied before contracts can be awarded.

The Future of Flood Risk Management was the topic of our joint CIWEM meeting and this was followed by a case study on the Geotechnical aspects of the Ashford Tunnel for our Geotechnical Group joint meeting. Further joint meetings were held with the Chartered Institution of Waste Management where we discussed the assets and liability of the Dargan Road Landfill Site. Other papers included Partnering and the NEC contract as well as Transport for the 2012 Olympics.

As well as the technical papers we have made visits to the City of Derry, to Omagh and held our Graduates and Students conference in Limavady. One of the highlights of the social calendar was a look back at the railways West of the Bann by Charles Friel. The Technical programme was supported by a Management Masterclass held in 2008 rather than a formal conference. This proved a great success and offered a very economic training event for our members. Such a format is likely to be repeated in future years. We pass on our appreciation to Frank Morrison, Danny Laverty, Ciaran McAleenan, Julie Templeton and the Graduates and Students Committee for their assistance to the Regional Office in organising these events.

In Alan Strong's year a detailed review of the needs of different grades of membership and the requirements for encouraging new members in to the engineering profession was identified. The outcome of this review was a requirement to encourage school children into Engineering and the Committee developed the Civil Engineering for

Primary Schools Initiative and in John McMillen's year the Bridges to Schools project was initiated. The ICE graduate and student ambassadors have carried out a sterling exercise in working with school children and actively encouraging them to take an interest in the profession. This has been very rewarding when you go along to the celebration day to see a 10 year old carrying out a full Power Point presentation on their project in front of an audience of 100s. Children like this are the future of our Institution and these initiatives have been very successful over the last three years and has delivered what we set out to achieve. Unfortunately with the economic climate the Institution had to make cut backs at One Great George Street, in order to continue to support the Regions and to ensure that our subscriptions remain fairly static. To achieve this it is regrettable that some of the initiatives such as CEPS could be at risk with regional funding cuts.

To ensure that we maximise our funding potential we need to have good representation on the ICE Council. Bill Gowdy has kept the Committee informed of the debate at Council over the last three years and I am sure that he will continue to do so into next year.

I first joined the ICE Committee in 1992 as a Graduate representative and this was followed by the role of Secretary and Chairman of the Graduates and Students Section. Since then I have carried out many roles on the Committee and this year marks the end of my six year role as Assistant and then Secretary to the Region. If the Editor allows me the space I would like to take this opportunity to thank all of those who have supported me over the last 17 years and encouraged me to become more involved, there are too many to mention by name. I would thank Des McFaul and Jayne Chambers, both of whom said there was nothing to it and in particular Ian Long who twisted my arm! I thank Stephen Orr for his assistance over the last three years and for stepping in to the role of Secretary, I am sure he will be well supported by our latest addition Su Taylor. This Intuition is in safe hands, however it is your Institution so please do try and take an active involvement. It really has been a privilege and an honour to have been involved. Thank you.

*Kevin McShane
ICE NI Hon. Secretary
June 2009*

10. Report from the Regional Director

The past 12 months has not been an easy year for our industry. The construction and civil engineering sector has been badly hit by the economic crisis and I know many of our members in NI are feeling its effects. Along with everyone else in the UK and around the world, from individuals to large corporations, ICE is facing 2010 with a high degree of financial uncertainty caused by a potential fall in subscriptions and a drop in Thomas Telford Ltd profits. The challenge we all face is how to manage the organisation in such times; ICE needs to remain as a source of support to its members, especially for our young graduate engineers who are starting out on their careers. Our Benevolent Fund is always available to offer help and advice to members and their families who find themselves in difficult circumstances.

Regardless of the difficult economic situation, the work of ICE is underpinned by our core values:

- Trust and honesty
- Ethical behaviour and integrity
- High standards
- Quality and professionalism

The ICE regional support team works hard to deliver on these core values and we aim to ensure ICE NI functions as effectively and efficiently as possible across the following strategic strands:

ICE NI works hard to educate young people about civil engineering. We aim to raise interest in schools and colleges and encourage and support the young civil engineers of tomorrow.

Broad and Inclusive Membership

ICE NI works hard to educate young people about civil engineering. We aim to raise interest in schools and colleges and encourage and support the young civil engineers of tomorrow. Our ambassadors visit schools to talk about civil engineering, bringing fun activities into the classroom along the way. The current construction industry downturn may make the job of inspiring young people towards a civil engineering career more difficult. However, our message remains the same; Science, Technology, Engineering and Maths (STEM) is increasingly important and if we are to build a truly knowledge based economy, it is imperative that we increase the flow of young people, at all levels, entering the science, technology and engineering sectors. There is now no statutory requirement for pupils to study science at GCSE, so we have to be creative about how we increase their awareness and enthusiasm for the subjects.

The two local pre- 19 initiatives designed to inform primary school children about the role of civil engineers in society, Civil Engineering in Primary Schools (CEPS) and Bridges to Schools, continued with enthusiasm into 2009. Thanks to the enormous support from our young graduate ambassadors and Dr Phil Donald, who willingly travels the country with our cable stay bridge activity, over 2,000 children now know a little bit more about civil engineering. One of our ambassadors, Paul McCauley, was recently rewarded at a celebration ceremony at the House of Lords for his inspirational work with St Anne's Primary School in Corkey, Co Antrim as part of the CEPS project. Paul has made an indelible impact on the life of the students that he has worked with in this rural primary school and there is a great chance that many will go on to tertiary education and careers in science as a result.

'Engineered! A Week of Wonder' in February 2009 was a first for ICE NI when we worked with Engineers Ireland over the course of a week to involve 18, 000 participants in a range of interactive engineering - related activities across Ireland. Locally we organised bridge building and spag-mallow challenges at Queens University for primary school children. Prof Noel Sharkey spoke to undergraduates and secondary school children on robotics and NI Water hosted a visit for schools to their Heritage Centre. This was an excellent opportunity to collaborate with our colleagues in Engineers Ireland and deliver an extensive programme of events across the island.

The NI region remains committed to boosting the profile of the profession and ensuring that civil engineering is seen as an appealing career by actively working with secondary level students, parents and universities. We continue to have a substantial role to play delivering a 6th form engineering conference for students in schools across NI hosted by Methodist College Belfast. This conference is in its seventh year and attracts 150 students interested in finding out more about a career in engineering. For many in attendance the highlight of the day is the site visit in the afternoon of the conference when students get their first



opportunity to visit construction sites such as RVH New Critical Care Centre, Belfast Wastewater Project and the Westlink.

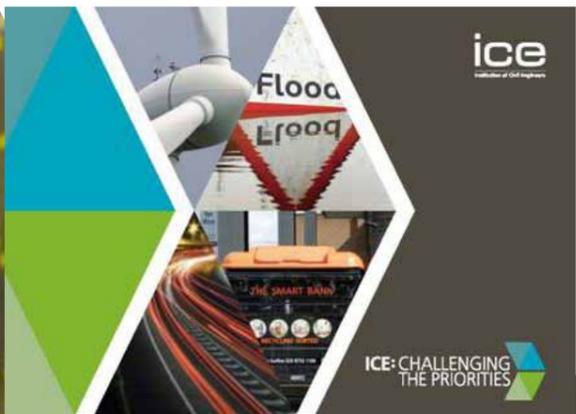
In October 2008 thirteen first year civil engineering students were awarded a QUEST Undergraduate Scholarship. These scholarships are partnered with ICE, industry and ConstructionSkills and amount to £3, 000 per year up to a maximum £12, 000 over 4 years. The ICE contribution to these scholarships is funded primarily as a result of donations with member subscriptions. Obviously this is a voluntary contribution but the sustainability of this activity relies on members continuing to support QUEST through difficult economic times.

A significant milestone was reached this year for fifteen graduates who successfully passed their Chartered Professional Review. NI achieved the highest review pass rate in the UK (93%) which is a credit, primarily to the individuals, but also to the companies who have committed time, effort and opportunity for these graduates to progress their professional development.

Knowledge Transfer

To develop our external influence and address key issues ICE released reports on capacity and skills, flooding and transport in 2008 and in 2009 we have produced a State of the Nation Report on Defending Critical Infrastructure and this will be followed up later in the year with a report on Low Carbon Infrastructure. These national documents have regional input to enable ICE NI to use these documents to influence local government and other relevant stakeholders.

In March this year ICE NI launched its own report, 'Challenging the Priorities'. This comprehensive review of NI's infrastructure, whilst acknowledging the recent investment in major infrastructure projects, outlines the work that really must be carried out to allow NI to catch up on 30 years of under investment in our infrastructure and also prevent imminent EU infraction charges for breach of EU regulations. The report carries out a review across the sectors; transport, waste management, water and wastewater, flooding and energy and makes 10 key recommendations to the Executive if it was possible to redirect both revenue and capital funding from other spending areas into the building of infrastructure and the repair and maintenance of the existing infrastructure.(full report can be viewed www.ice.org.uk/challengingthepriorities)



As the recession bites, the idea that the green shoots of economic recovery will be sprung from the fertile ground of a low carbon economy gains momentum.

This is a prime opportunity for the civil engineering industry to show innovation and display our knowledge-rich capabilities.

Driving the Sustainability Agenda

In the past year issues pertaining to climate change and sustainability have remained top of Northern Ireland's political, cultural and social agenda. As the recession bites, the idea that the green shoots of economic recovery will be sprung from the fertile ground of a low carbon economy gains momentum.

The knowledge and expertise of civil engineers can contribute greatly to the sustainability agenda, aiding economic recovery. The 2007 Climate Change Conference saw ICE NI position ourselves as key drivers of the sustainability agenda and throughout 2008/09, ICE NI have pushed forward to build on the platform created after the 2007 Conference.

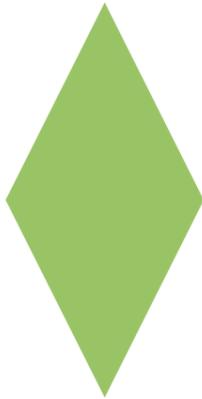
A small but committed steering group, headed by Mark Atkinson, Committee Transport Representative, has focused on driving the sustainability agenda, forming alliances with other key forums and organisations in the process. For example, ICE NI are currently stakeholders of the Northern Ireland Climate Change Impacts Partnership (NICCIP). NICCIP's credibility is gaining recognition, as illustrated by ICE NI Assistant Regional Director Emer Murnaghan's oral evidence session with the Environment Committee's Climate Change Inquiry on behalf of NICCIP in May 2009. The full text of the oral evidence submitted to the inquiry on that occasion can be accessed via <http://www.niassembly.gov.uk/environment/2007mandate/submissions/NICCIP.htm>.

Furthermore, ICE NI are currently represented on the Climate Change for Business Forum 3 (CCBF3) participating via partnership activity. This representation has allowed us to steer CCBF3's adaptation specific agenda, involving discussions on highways infrastructure with Westminster's Department of the Environment, Food and Rural Affairs (DEFRA) and well as the Department for Transport (DfT).

November 2008 also saw ICE NI representation at the United Nations Association UK Climate Challenge, considering climate change challenges from a local, national and international perspective. The 'behavioural change issue' raised by panellists such as Polly Higgins and Bernard Bulkin set the scene for the later discussion on the issue contained within the 2009 Challenging the Priorities Report.

ICE NI also shared some thinking time with Sammy Wilson, then Environment Minister, at the Waste and Resources Action Programme (WRAP), in November of this year. Amongst many issues discussed, the issue of meeting EU waste targets and possible infraction charges were raised.

We will continue our work on the ground into 2010 and fully expect that local government and key policy makers will recognise ICE NI's position as a driver of the sustainability agenda. This is a prime opportunity for the civil engineering industry to show innovation and display our knowledge-rich capabilities.



Public Voice

The construction industry has a vital role to play in the local economy and is one of the fundamental drivers of NI's economic success. It is one of the largest employers providing both professional and vocational careers; it shapes and delivers the built environment in which we all live and it is no exaggeration to say that our industry impacts deeply and widely on the life of every single person living in NI. If the Executive could continue to spend on infrastructure it would lay a solid foundation for NI's economic growth and improve public services in the future. It will help keep people in jobs and provide opportunities for wonderful careers for our young people.

ICE, like so many organisations, is calling the Stormont Executive to bring forward spending on infrastructure projects to support the local industry and keep construction workers in jobs. This was the message we took to the First and Deputy First Minister when ICE meet with them in September 2008 as a member of the Construction Industry Group. This meeting was a useful opportunity for many constituents' bodies from within the construction sector, to reinforce the message that the construction industry is currently facing significant pressure as a direct result of the shortfall in investment in planned infrastructure as outlined in the Investment Strategy for NI.

The knowledge and expertise of civil engineers can contribute greatly to the sustainability agenda, aiding economic recovery.

Our strengthened regional support team is committed to ICE's vision, to see civil engineers at the heart of society, delivering sustainable development through knowledge, skills and professional expertise.

Sustainable ICE

Finally, ICE is continually trying to drive the sustainability agenda across infrastructure projects but ICE is also determined to do all that it can to become a more sustainable organisation. Through MyICE members can subscribe to Digisubs and make use of ICE online services such as receiving their subscription renewal online, pay their subscriptions and request an online receipt. Members will also not receive hard copy membership guides or membership card unless specifically requested. There is however work to be done on this front; in 2008 ICE issued in excess of 60,000 subscription renewal notices via hard copy - equating to 240,000 A4 sheets of paper alone for just the subscription notice - not even factoring in the members guide!

We wish to reduce these numbers and convert a good proportion of our membership to Digisubs and pay via direct debit or online methods. Of course, there will always be some who prefer more traditional methods, and we can cater for these. Specifically in NI we are also keen to push forward with the 'green agenda' and this year the Regional Executive Board has taken the decision to produce the Annual Report on line, without a hard copy print run. Further steps will be taken in 2010 as we have agreed to replace 2 of our 3 hardcopy newsletters 'Notice' with an electronic version. These paperless initiatives will not suit everybody, however we are committed to becoming a more efficient and sustainable organisation and would welcome your feedback in due course.

Finally, the past 12 months brought some changes to the regional support team; Sinead Glackin took over as Marketing and Communication Executive in June 08 and Emer Murnaghan joined in September as Assistant Regional Director to support ICE across our business plan activities but with a particular focus on membership development in Ireland. To this end we now offer a monthly Membership Surgery and we hope to organise a similar event in Dublin in the Autumn. This strengthened regional support team is committed to ICE's vision, to see civil engineers at the heart of society, delivering sustainable development through knowledge, skills and professional expertise. This continues to be a significant challenge for every ICE member. The Institution is a membership organisation and a charity and it is society at large which benefits from our activities. The challenge is to ensure that members remain actively involved with the Institution throughout their careers, thereby increasing their level of satisfaction. We know there is still much to be done and ICE in your region will continue to work to ensure we meet the needs of our members and the wider civil engineering profession.

*Wendy Blundell
ICE NI Regional Director
June 2009*



11. Graduates and Students Section

The 2008/09 session of the Graduates and Students (G&S) Committee in Northern Ireland has been one of review and planning. This year's committee has taken a step back to assess the quality of the G&S events offered by the region, the way the G&S committee is structured and what can be improved for the future. This review of the G&S Committee and its events has led to the development of our five year business plan.

The NI G&S Committee wish to follow in the footsteps of the Graduates and Students Network (GSNet), who this year developed a Best Practice Guide for G&S events. Local GSNet Representatives, Rachael Thom and Kieran Owens, highlighted some areas for improvement in the local committee based on the experiences of other regions. This feedback from GSNet was the catalyst in the review of the local committee and demonstrates the usefulness in sharing experience across the regions. Our links with GSNet remained strong this year with Kieran Owens, current GSNet Vice-Chairman, being elected to the role of Chair for the 2009/10 session.

Whilst this additional work was going on behind the scenes, the G&S Committee were still capable of delivering another successful year of technical and social events. The committee, as always, give up their time freely to provide training and networking opportunities for other local graduates and students; their reward being a good attendance at their events.

A brief summary of the G&S events held in the 2008/09 session is given below:

- The G&S Ball was restarted again this year and on 23rd October in the Wellington Park Hotel 67 graduates and students enjoyed an evening of good food and some music. The event was organised by Chris Maguire and sponsorship was provided by Mouchel. Lindsay Fulton gave a short presentation to the group on the UN Development Goals and getting involved in volunteer organisations. Many thanks to Lindsay for her contribution to the evening.
- The G&S Table Quiz was held on 13th November in the Duke of York Belfast. The event was organised by Michele Kilfeather, Lee Emerson and Helen McAteer. The Quiz was well supported with immediate past G&S Chair Conor O'Hagan performing the role of Quizmaster.
- The ICE Communications Competition, organised by Michele Kilfeather, Lee Emerson and Helen McAteer, was held on 26th November at QUB. The event saw four teams from Faber Maunsell, Arup, Mouchel and MWH Global entered in the competition. As in previous years, the Judging Panel was



Feedback from GSNet was the catalyst in the review of the local committee and demonstrates the usefulness in sharing experience across the regions.

led by Bill Gordon; thanks go to the Judging Panel for their endless enthusiasm. This year's winners were Faber Maunsell (AECON) who will represent the NI region at the national final.

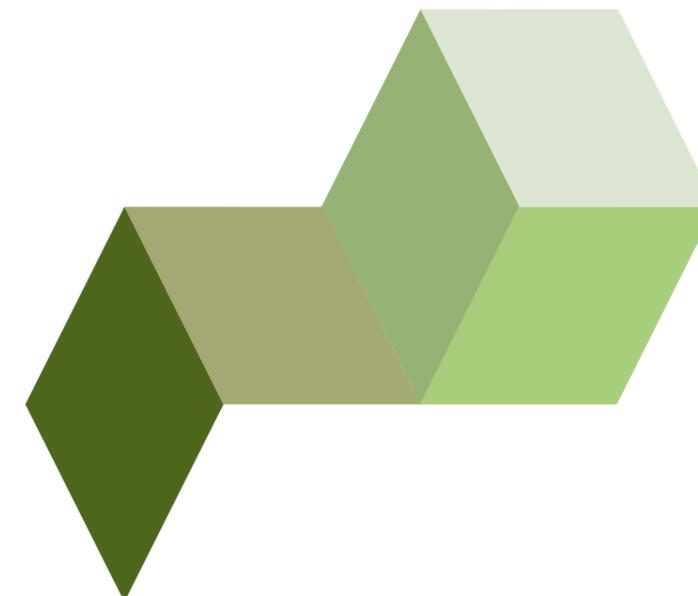
- The Graduate Forums were organised by Edel O'Hare and me. The topics this session included Achieving Excellence (Colin McDonald), EIA's & CEEQUAL in Civil Engineering Projects (Paddy McEntee), and Forms of Contract in Civil Engineering Works (James Golden). The forums were extremely well attended with 40+ delegates enjoying the new surroundings offered by the QUB Old Staff Common Room.
- The Presidents Visit was a highlight for Graduates and Students in NI Region this session and as usual the visit coincided with the Annual Dinner on the 4th December. Graduates and Students who attended the event in QUB took part in some novel ice-breakers, a group discussion session where those in attendance were asked for their views on the G&S Committee and local G&S events, a lively interactive Q&A session with the ICE President Jean Venables and a Lego tower construction project. Feedback on the event was very positive and the discussion groups provided valuable comments for the committee for planning future events.
- The G&S Papers Competition, or Brennan Cup as it is known locally, organised by Laura Carse, was held in QUB on 2nd March. Seven papers were submitted for the competition this year causing a first round selection of three papers to present on the night. The three speakers were Simon Lamont (Dorans), Anne-Marie Byrne (BDP) and Ross Johnston (BDP). Congratulations go to this year's winner; Simon Lamont. Thanks to the Main Committee Vice-Chairmen for their assistance as judges on the night.
- The Pool Competition, organised by Andrew Wright, was held in Lavery's on 19th March. The event pulled only a small crowd of nine eager pool enthusiasts; however, competition was fierce and a league structure meant every frame counted. Martin Anderson (Amey) went on to win the event, beating Chris Canning (QUB Undergraduate) in the final.
- The Annual 5-a-side Football Competition organised by Vincent O'Donoghue was once again held at UUU sports centre and was a popular event on the ICE calendar. This year's competition saw Scott Wilson seize the cup in a very competitive and good natured final with Atkins.
- Arising from the review of events hosted by the G&S Committee in NI in the early part of the session, the committee chose to focus on Professional Development and Professional Qualifications for this year's G&S Conference (previously known as the Annual Study

Course). The conference was titled 'Professional Development Masterclass – Engineering Your Career' and was held at the Radisson Roe Park Hotel in Limavady. A huge vote of thanks goes to Edel O'Hare who single-handedly organised the two-day residential event for over 50 delegates, including an array of presentations, workshops and a team-building activity hosted by The Adventure Team. Feedback from the event was very positive, with particular thanks to the recently chartered engineers Martyn Harvie and Keith Haslett, and ICE Reviewers Philip Brown and Brian Doyle for their practical advice during the Q&A sessions. Another vote of thanks to the other speakers who donated their time; Robert Lavery, Ken Logan, Ciaran McAleenan and Neil Reid.

I would like to take this opportunity to thank the committee for their enthusiasm, valuable contribution and support during this year of change. Special thanks go to Emma Millen (Secretary), Rachael O'Hagan (Members Representative) and Kieran Owens (GSNet Vice-Chair) for putting in a supreme effort to develop our proposals and for helping me to produce our business plan.

My best wishes go to Incoming Chairperson Emma and to next year's committee (I hope I didn't give you all too much work to do).

*Julie Templeton
ICE NI Graduates and Students Chairman
June 2009*





12. Council Representative

The Council has had to deal with a number of significant events over the past 12 months, not least of which is the current economic situation.

Early in the year, Council reviewed the budget for 2009 and the financial plan for the period 2010 to 2013.

Despite relatively good results from Thomas Telford Ltd, income to the Institution was anticipated to be lower than expected due to the reductions in investments, and the Council agreed to make up any shortfall from financial reserves. Detailed reviews of expenditure and income were carried out and action plan, differentiating and prioritising core expenditure from discretionary expenditure, has been implemented.

This rebalancing exercise was necessary to evaluate activities and identify different ways to maintain and increase effectiveness. The implementation plan is being overseen by Andy Ruffles, the recently appointed Chief Operating Officer.

In addition, the Council, very reluctantly, agreed to seek and increase of 2.5% in subscriptions from 2010, which was passed in the recent membership vote. However, Council is keen to note to members that ICE remains in a financially strong position.

The selection of the next president was part of the presidential succession planning and the Council were pleased to confirm Professor Paul Jowitt as the president for 2009/10, and Peter Hansford (currently a vice president) for president in 2010/11.

Some regional structures have also been changed with the most notable being in Scotland where the former two Scottish regions have been merged into one region with only one representative now attending Council.

The Council also debated the influence and reputation of Institution in modern society and agreed that continuing professional development (CPD) should be part of every engineer's career path. Council have therefore set in place a plan to have formal recording of CPD by all members by 2015. CPD recording will be gradually implemented and recorded over the next few years and all members are encouraged to complete their records. An implementation and communication plan has been established.

Climate change, sustainability, low carbon infrastructure and defending critical infrastructure are seen to be huge challenges for the future. The Council has set up an Infrastructure Panel to advise government on how to tackle these challenges.

The Infrastructure Panel has already achieved some success by being part of the government's 'Infrastructure UK' consultation process, and is becoming an integral part of the policy making process for government

In addition, the Council considered the ICE's public affairs strategy. The strategy aims for the ICE to be the 'voice of infrastructure'. Significant progress has been made in making ICE a key participant in policy making and the first 'port of call' for discussions on infrastructure related matters by the media.

Continuing on this theme, influencing government on engineering policies is one of the Institutions priorities. Following presentation by the government's chief scientific adviser, the Institution is lobbying government to appoint a Chief Engineering Officer so that matters of civil engineering are discussed in the centre of government.

The ICE's website has also been considered by Council particularly on the rebuilding of the site currently underway. The new website, which will be active in during the middle of 2010, will have up to date technology and accessibility, with facilities for online communities and a much more user friendly approach.

Council matters cover a wide range of topics and it was reported to the Council that the New Engineering Contract (NEC) is now widely used across the world with the 'old' ICE conditions of contract now less popular.

As a consequence, the Council agreed to recommend use of the NEC for all new civil engineering projects. This recommendation has been welcomed by many client organisation especially the Office for Government Commerce.

On membership issues the Institution is strong with membership expanding across the world. However, Council are concerned at the falling numbers of engineering technicians. Council acknowledged that success in establishing membership growth at this grade depends upon working with employers to build up the demand for professionally qualified members.

However, the technical grade engineers play an import role of the of the civil engineering team and plans are being made to increase their number.

All in all, it has been a demanding year, particularly on financial matters where agreement on the Council was not always unanimous.

Nonetheless, the Institution has a good report to make on the year and has made good progress in membership services and promotion of ICE.

Finally, may I take this opportunity to thank all those members who voted for me to continue as Council Representative for the next three years. I value your support and assure you that I will continue to make known to the Council, the views of the Northern Ireland Region.

*Bill Gowdy
Council Representative
July 2009*

13. Geotechnical Group

The Geotechnical Group's AGM was held on Monday, 17 November 2008 in Room LG024, David Keir Building, Stranmillis Road, Queen's University Belfast. Approximately 40 people were in attendance. At this meeting, after ten years on the Sub-Committee in various roles both James McNeill and Danny Glynn stepped off the committee. Dr Jane Brown and Gordon Nimmons joined the committee.

Hon. Chairman: Mark Cassidy
Hon. Secretary: Colm Hurley
Hon. Treasurer: Tom Robinson
Committee: Dr. Gabriel Gallagher
Dr. V. Sivakumar
Arthur Bowron
Peter Papifio
Dr. Jane Brown
Gordon Nimmons

After the AGM Mr Charles McAnally, Director of Keller Ground Engineering presented a talk on the 'Govan Dewatering Scheme', which discussed how various elements of ground engineering (including design, risk analysis, shaft construction, dewatering, and monitoring) were brought together to deliver a successful geotechnical solution for the refurbishment of a problem section of railway tunnel. The talk was very interesting and well received.

The Geotechnical Group's annual joint meeting with ICE NI was held on Monday, 26 January 2009 in Sir Peter Froggatt Centre, Queen's University Belfast. Approximately 60 people were in attendance. The speaker for this event was Mr Howard Roscoe, of Atkins Consultants.

The title of his talk was 'Ashford Tunnels - Geotechnics in construction'. Howard focused on the design and construction of a 1.8km long section of cut and cover tunnel. He mentioned design changes that were introduced to accelerate construction, discussed the comprehensive system of instrumentation that was installed and highlighted some important lessons for the design of earth retaining structures.

Each year the Geotechnical Group presents a special award to the student who performs best in the final year of their Civil Engineering Geotechnics course at each of the two universities in Northern Ireland. The students will be presented with a cheque for £150 in July 2009.

*Mark Cassidy
Hon Chairman
June 2009*

14. Benevolent Fund

Many thanks to all of you who have generously supported the Institution's Benevolent Fund. We are so fortunate to have a Fund available to us if we or our families should fall upon hard times.

The object of the Fund is to give both advice and, where necessary, financial assistance to members and their dependents who find themselves in difficult circumstances. Currently we have five Beneficiaries receiving assistance, three in Northern Ireland and two in the Republic of Ireland.

It is important that the Institution is promptly informed of bereavement or any case of potential hardship so that the Fund can act promptly where necessary. I would ask all our members to ensure that when they hear of a bereavement or hardship that they inform either me or any committee member.

You will appreciate that in the current global financial situation, the returns from the Fund's Investments are severely curtailed and as the Fund does of course depend completely upon the generosity of our members, I would urge all who do not subscribe to please reconsider.

I am sure that you will realise that the Benevolent Fund provides an amazing level of cover to you and your dependents for what is, a very small annual subscription.

I would of course be happy to explain in more detail how the Benevolent Fund works in practice and how potential beneficiaries are assessed and assisted. All matters relating to the Fund are of course dealt with in the strictest confidence.

ICE Benevolent Fund at Haywards Heath, Tel. 01444 417979
E-mail: benfund@ice.org.uk

Contact the Helpline Direct Free phone: 0800 587 3428
E-mail: ICEbenevolent@ppcuk.com

My contact details as regional representative are;
David Stewart
Oaklands
6 Alexandra Road
Donaghadee, Co.Down
BT21 0QD
Tel: (028) 9188394

*David Stewart
Benevolent Fund NI Rep
June 2009*

The object of the Fund is to give both advice and, where necessary, financial assistance to members and their dependents who find themselves in difficult circumstances

15. The Webmaster

ICE Headquarters at Great George Street operate a Website which can be accessed at www.ice.org.uk. The Northern Ireland Region operates and maintains a local website which can be accessed at www.ice-northernireland.org.uk.

If you have an item of news or of an outstanding achievement by one of our members or, indeed anything you think would be of interest to our local membership, contact the Regional Office who will endeavour to have it posted on our Website.

One Great George Street are continuing to work with the agency Wilson Fletcher to deliver the much vaunted new website. The launch date for the new website is anticipated to be June 2010. I have had a preview of some of the graphic design and frame layout of the new website, and I can say that it is vastly improved from the current version. The regional website will follow suit and ice-northernireland.org.uk will be retained, albeit in an improved format.

*Sinead Glackin
ICE NI Communications Executive
June 2009*



www.ice-northernireland.org.uk



16. Historical Engineering Works

The Committee for Historical Engineering Works - Northern Ireland has had another very active year in planning, undertaking and reporting upon Historic Engineering Works (HEWs).

The Committee is formed by Frank Robinson (NI PHEW Representative), Dr Phil Donald (Chairman), Dr Michael Gould (NI PHEW Corresponding Member), Prof Adrian Long, Kevin McShane and secretarial support is provided by Stephen Orr.

The NI Committee has given a commitment to PHEW HQ to revisit and inspect all 95 registered HEWs within a 5 year period. A programme of works has been developed and HEWs have been geographically referenced into a series of trips. By the end of the second year of the programme over 40 of the 95 HEW's had been inspected. This included the inspection of a number of new works for consideration by PHEW HQ. The programme of inspections and reports has been ongoing over the winter and by the end of the summer it is hoped to have a further 20 - 30 inspections completed. This will leave the committee some time in the last two years of the programme to assess potential new HEW's.

The committee has agreed that the reports along with a series of photos (current and historic) and any drawings and records are all presented on a CD-ROM for each HEW. These are forwarded to PHEW for collation and records. The National PHEW committee was so impressed with Northern Ireland's technological lead that this system is to be adopted across the UK as the preferred reporting method.

PHEW HQ maintains a MS Access database of the records. The Northern Ireland Committee is currently working on developing this database to GIS which presents the data and locations of HEWs on a mapping platform. This will aid the programming of visits and presentation of results and ultimately the data will be uploaded onto the NI Region Website.

The feedback from PHEW HQ is excellent and they believe that Northern Ireland is leading the way in terms of HEW assessment and developing the work of PHEW. We believe that we may be used as an example for others to follow.

The ICE has recently launched a new quarterly Journal the ICE Proceedings: Engineering History and Heritage. Ron Cox of Trinity College Dublin and the Ireland PHEW

representative is the Chairman of the Editorial Advisory Panel for this journal. Dr Michael Gould has authored a paper on the innovative concrete works of the LMS/NCC Railway and Dr Phil Donald has authored a paper entitled, The Irish Coal Canals. Both papers have been peer reviewed and accepted for publication in the Journal in the Autumn 2009 issue. Stephen Orr has also peer reviewed a paper on the development of British Waterway Reservoirs.

In summary, the committee is very active at present with inspections of old and prospective new HEWs and plan to continue this work over the next three years. The commitment in terms of personal time and effort of the committee stalwarts is to be applauded.

*Stephen Orr
Honorary Secretary
June 2009*

Clubs & Societies

The Bindoo Wind Farm in Co. Cavan is one of many dotted across the island of Ireland. Civil Engineers play a crucial role in the design and construction of wind farms as the government attempts to achieve a complete decarbonisation of our electricity supply system by 2030.

17. The Engineers Club

During the year we organised two very successful Civil Engineers Club (CEC) events with a common theme; theatres! The first one was held in December 2008, when over 50 members of the Club, including many partners, visited the Grand Opera House in Belfast.

The visit included a guided tour of both the Opera House and the extension, followed by a hot buffet lunch in the new restaurant. The show at the time was the Christmas season pantomime, Mother Goose, and an added, unexpected bonus occurred when the Director of the show took time out from his busy schedule to tell everyone about the many challenges of putting on such a major show in the Opera House.

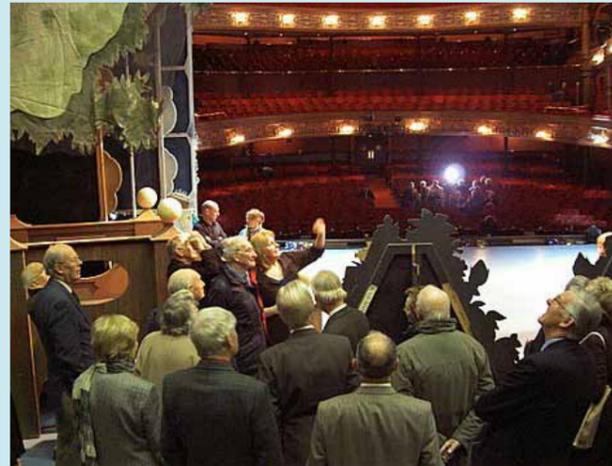
Ove Arup were the Consulting Engineers for the scheme, and two of the designers, John Scullion and Peter McGowan, kindly escorted the members around the facility and explained in great detail the engineering challenges associated with extending such a beautiful iconic building.

In May 2009, the CEC ventured west of the Bann with a visit to The Strule Arts Centre, Omagh. More than 20 members attended (an excellent turnout, particularly as there was a clash with the ICE / EI annual golf match) and found themselves in knowledgeable company during the visit with Jean Brennan, Strule Arts Centre Manager, leading the tour alongside Ian Long of Doran Consulting who provided design and build technical input.

While Belfast's Grand Opera House could be described an old money establishment, the Strule Arts Centre is most certainly nouveau riche. The purpose built facility first opened its doors in June 2007. Since then the venue has become a focal point for the arts in the Omagh area with a cultured programme of events combining the best of local talent with some well chosen artistic imports. Ian and Jean made an excellent double act (in keeping with theatrical parlance) combining their diametric expertise in a witty and up tempo way.

Special thanks must go to Sinead Glackin, Jude Milway and Emer Murnaghan for all their efforts in organising these two successful events, and we encourage more members to join the CEC for the 2009 -10 session for what are very convivial and enjoyable outings.

*Mark Lowry
Immediate Past Chairman, ICE NI
June 2009*



18. Golfing Society

The golfing society had an interesting year's golf but was hampered by poor weather during some events. The autumn outing was held at Belvoir Park on Monday 18th August. Despite some rain the course was declared open and members and guests arrived in good time and enjoyed a light lunch in the magnificent new clubhouse overlooking the course. Sadly by the starting time the rain intensified and the course soon flooded and play was abandoned for the day. The event was not reconvened. Incidentally this was the Monday after the severe rainfall a few days earlier that flooded the nearly completed West Link at the Broadway underpass.

On the 1st September the N.I. Team of Edward Bill, Gareth McKibbin, Jack McFarland and David Porter played in the Thomas Telford Trophy at Royal Ashdown Forrest Golf Club in Sussex. They did not retain the trophy but nevertheless did not come home empty handed. Tom Bill played in the Veterans competition and won easily with 39 points. In T.T.T. Edward Bill had the best gross score and won the Scott Quaich.

The season's last event was Captains Day, hosted by Derick Munro at Moyola Park G.C. Despite a poor forecast the weather was reasonably good. The Captain's prize was a very fine picnic hamper, complete with all the relevant accoutrements and a cool box for wine. Phil Donald won with a fine 38 points and this enabled him to collect the hamper and the claret jug for the golfer of the year. He beat Jack Cargo by one point based on the best three cards for the season. Phil, as a past captain could also have collected the past captain's prize of a fine bottle of whiskey and two glasses but having his car full of trophies did the sporting thing and passed on the past captain's prize to a former captain Jack Cargo who led the points until the final event. Few other than Phil would be so professional and sporting. That completed the 2008 year and 2009 started with a new captain, George Montgomery from Roads Service who ensures the roads in the North Down and Bangor area are the best kept in the province.

The 2009 year started with a most pleasant outing at Gracehill Golf Club near Ballymoney on Tuesday 28th April. The weather was excellent and 15 members and 5 guests had a most enjoyable day. Top scorer was Tom Bill with 36 points followed closely by Jack



Cargo with 35 points. Our match with Engineers Ireland was scheduled to be played at Kilkeel Golf Club on Friday 15th May. No play was possible with the course closed from 9.00am after yet another night of heavy rain. It will be rescheduled for 24th August when we will combine the RSUA match with EI.

The Milway cup was contested at Belvoir Park G.C. on Tuesday 23rd June on a magnificent day. 29 Members and guests enjoyed the day and the winner was Paul Johnston with 32 points just beating Captain George on break of tie. Third was Gareth McKibbin on 31 points. The Thomas Telford Trophy will be held at Celtic Manor, Newport, Gwent on the 10th September 2009. This course is the venue for the 2010 Ryder Cup where Colin Montgomerie will captain the European Team and hope to win back the cup from the Americans. The final outing is Captain George's big day at Clondeboye Golf Club on Tuesday 22nd September.

*Joint Secretaries
Jack McFarland and David Porter
June 2009*



Finances

With its aesthetic design, the Sillogue Water Storage facility has improved the water supply to North Dublin. On a world wide scale it is estimated that there will be a 30% rise in demand for water by 2030. The expertise of civil engineers will be required to meet this demand.

19. Treasurer's Report

From 1st January 2007, the ICE Northern Ireland region has been utilising 'centralised regional accounting', with the central ICE Finance Department at One Great George Street now processing all payments and receipts. 2008 has been the second year for the Northern Ireland region to operate the new system and our annual financial report is presented here in the same manner as last year. The Regional accounts were successfully audited by ICE's auditors in February of this year.

As for 2007, the region's Executive Board set a budget for 2008, which was approved by the ICE Finance Committee. The Region endeavours to work within this budget and at the end of the year, the Region's performance is assessed against the budget. The knowledge gained from either an over spend or an under spend is used to improve

performance in the ensuing years. As explained previously, the Region no longer accumulates "reserves" although a successful year can be used to negotiate an increased budget the following year provided it is to fund a well thought out project for the benefit of the Region.

All of the Region's transactions are processed by our Regional Support Team who keep records of all transactions and code them to enable HQ to produce an end of year report that is meaningful for the Region and assists with the preparation of future budgets. The codes used are set by the Finance Department although these are combined with additional codes set by our Regional Support Team for regional events.

The Annual Financial Report supplied by the ICE Finance Department for year ended December 2008 for ICE Northern Ireland Region's finances shows the following:

Expenses	2007	2008
Regional Office Costs	£117,647.03	£126,090.64
Regional Expenses	£86,840.17	£117,497.05
Regional Events	£64,817.77	£94,999.01
Total	£269,304.97	£338,586.70
Income		
Regional Events	£84,915.86	£123,084.29
Interest	£4,553.19	£2,858.51
Other Income	£3,841.45	£5,135.37
Total	£93,310.50	£131,078.17
Total Resources Expended	£175,994.47	£207,508.53
HQ Contribution	£161,050.68	£208,175.94
Draw down on Region's Restricted Reserves	£1,197.47	(£667.41)
Unrestricted Reserves	£13,746.32	

The £667.41 difference between our expenditure and our HQ contribution is due to the interest gained by our Restricted Reserves that is not included in our HQ contribution. There was no expenditure on our Unrestricted Reserves.

Our HQ contribution for 2008 of £208,175.94 is £1,838.94 lower than our allocated budget figure of £210,014.88, which indicates that the NI Region has operated to within 0.8% of our budget. This is due to high level of management and dedication within our Regional Team.

Regional Events again generated income of £7,237.00 and this financial success in terms of generating income is due to the hard work and efforts of our event organisers. Other regional events were cost neutral such as the Derry and Omagh lunches.

Large items of expenditure in 2008 included our very successful Primary School Project at £13,345.00 and equally successful Bridges to Schools at £4,054.00. Our payments for the cost of our bridge kit are now complete and thanks to our volunteers, the operational costs for this project will be minimal in future years.

The Regional Office undertakes most of the administration burden associated with centralised accounting. Our well deserved thanks go to the staff in our Regional Office whose hard work makes the system a success.

*Lynda Martin
Honorary Treasurer ICE NI Region
July 2009*

Report & Accounts Designed by Katie Arup & Co: 028 9263 9376

ICE is a registered charity. Registered charity number 210252.
Charity registered in Scotland number SC038629