

INSTITUTE OF GEOLOGISTS OF IRELAND



2009-2010

ANNUAL REPORT

and

FINANCIAL STATEMENT

MISSION

To promote and advance the science of geology and its professional application in all disciplines, especially the geosciences and to facilitate the exchange of information and ideas in relation thereto.

To require its members to uphold, develop and maintain the highest professional standards in the practice of their profession, as described in the Company's Code of Ethics and Conduct.

April 2010

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1 PRESIDENT'S REPORT

It has been an honour to be elected to serve the geosciences as a board member of IGI from 2006 and as President for the past year. I would like to extend my thanks to the other board members, chairs and members of the IGI's sub-committees and various co-opted members for the sterling ongoing work which has been conducted since the last AGM. Thanks also to Susan and Ethel, our office staff for the ongoing smooth running of the day to day affairs of the Institute.

The period 2009 – 2010 has been an interesting and challenging period for many members of IGI. Involved as we are with the construction and quarrying and national infrastructure arena, many members have found the economic environment challenging. The metallic minerals exploration and mining sector remains buoyant however and when normal service resumes, the contributions of the membership will remain in demand.

The period has also seen a continued increase in the number of professional members, despite several resignations and transfers of members to Associate or Retired status, mostly as a result of the current economic situation. It is obvious that our professional status and ability continue to be valued and relied upon, even in an environment brought about by the failure of professional standards in other sectors.

To maintain that high level of professional status we are committed to the concept of Continuing Professional Development and a high standard of professional ethics and standards. We have updated and amended the CPD process to better reflect the nature of the professional development of our membership. CPD returns are mandatory, not just because of the intrinsic value of the process, but is also a requirement of the many statutory and regulatory bodies which recognize IGI and the organizations we maintain reciprocal or mutual recognition agreements with.

This year, the IGI has received it's first complaints which have been referred to the Ethics Committee. We have adjudicated in one complaint that no ethical breach has occurred, the second complaint is currently being progressed. As part of this process we are reviewing our Ethics and Discipline provisions in the Articles of Association in light of recent EU regulation in respect of Professional Regulatory Organisations – the IGI is recognized as the National Professional Regulatory Organisation for Geology in Ireland. Legal advice has been obtained and we would expect updated sections for the Articles of Association to be available for consultation and ratification at a general meeting in the next 12 months.

There are a large number of reports outlining the work of the board members and others in a wide range of sub-committees and representation on outside bodies and committees. I will not steal the thunder of those who have worked hard on their chosen or appointed roles by detailing that work here. The board and the membership continue to promote the profession of geology and the IGI as will be outlined by those representing the IGI.

Following the successful conference last May, the board has committed itself to providing a number of smaller, more focused training or learning events which will provide the membership with additional skills and knowledge which hopefully will assist the membership in gaining employment. The IGI has maintained a significant cash surplus accumulated from conferences and other events over the years and it is our intention to provide members attending courses with significant discounts to better allow members to attend the courses etc. which we will be providing.

I would like to thanks the membership for their support in 2009 – 10 and for the forthcoming period.

**EurGeol Dr John G. Kelly PGeo
President**

2 HON. SECRETARY'S REPORT

2009 Annual General Meeting

The 2009 Annual General Meeting (AGM) of the IGI was held on Wednesday 20th May 2009 at 7pm in the GSI Lecture Theatre, Beggars Bush, Dublin 4. Minutes of the meeting have been distributed separately. The meeting was chaired by the IGI President, EurGeol Kevin Cullen PGeo.

At the AGM the following were elected to the Board of the IGI to serve during the year 2009/2010:

Dr John Kelly	President
Stephen Bradley	Vice president
Gerry Stanley	Honorary Secretary
Morgan Burke	Honorary Treasurer
Barry Balding	Board Member
Andy Bowden	Board Member
Mary Carter	Board Member
Dr Deirdre Lewis	Board Member
Paul O'Sullivan	Board Member
Marie Ryan	Board Member

Board Meetings

The IGI Board met nine (9) times in 2009/2010 between the 2009 AGM and 30th April 2010, on the following dates 24th June, 26th August, 19th October, 4th November, 9th December, 19th January, 16th February, 15th March and 13th April. One further meeting was scheduled to take place on 17th May 2010.

The number of meetings (out of 9) attended by Directors and Board Members was as follows:

John Kelly (8), Stephen Bradley (5), Gerry Stanley (9), Morgan Burke (8), Barry Balding (8), Andy Bowden (7), Mary Carter (2)*, Deirdre Lewis (6), Paul O'Sullivan (3)** and Marie Ryan (0)***. Mary Carter was available for only 5 meetings. ** Paul O' Sullivan resigned in December 2009 to take up employment in Australia and was available for 4 meetings. Craig O'Connor was co-opted to assist with the production of the Newsletter following the resignation of Paul O'Sullivan. *** Marie Ryan was not available to attend any meetings. Gareth LI Jones attended one meeting (9th December 2009) to report on EFG matters.

Membership

As of the 13th April 2010, there are 148 Professional Members of the Institute, 25 Members-In-Training, 5 Retired Members and 3 Associate Members. Sixteen new Professional Members were elected during the year:

Brendan Brian Almack	Richard Langford	James A. Hodgson
Georgi Margaranov	Jonathan Talbot	Wojciech Laskowski
Jennifer Elizabeth Rush	Shane Bennett	Noel O'Keefe
Robert Neil Sandes	Michael Mlynarczyk	Matt Eynon
Michael Finbarr Sexton	Sandy Archibald	
Suzanne Tynan	Marie Fleming	

Four new Members-In-Training were elected during the year:

Rebecca Noonan
Crona Gray
Margaret Browne
James Stratford

Twelve PGeos were awarded the title of European Geologist (EurGeol) by the European Federation of Geologists (EFG) during the year:

Brendan Brian Almack	Georgi Margaranov	Jennifer Elizabeth Rush
Robert Neil Sandes	Suzanne Tynan	Richard Langford
Jonathan Talbot	Shane Bennett	Michael Mlynarczyk
Marie Fleming	Wojciech Laskowski	Marcus Casey

Two persons transferred to Retired status:

Deepak Inamdar
Mike O'Neill

Two persons transferred to Associate Membership status:

Dan Deeny
Martin Feely

Four members resigned during the year:

Jennifer McNamara
Mateusz Pohoryles
Andy Sleeman
Paul O'Sullivan

One Member passed away during the year:

Neil McNelis RIP

No members were delisted during the year.

**EurGeol Gerard A. Stanley PGeo
Hon. Secretary**

3 HON. TREASURER'S REPORT

A copy of the 2009 Financial Statement for the IGI as prepared by LHM Casey McGrath is attached to the Annual Report.

The financial statement reflects the Institute's financial position in the year 2009 to the 31st of December.

The Institute realised a negative difference of €14,415 between its income and expenditure in 2009. This figure excludes income receivable from interest on investments of €181, which when included reduces the retained negative surplus for 2009 to €14,234. This compares to a retained surplus of €1,908 in 2008.

The Institute's income and expenditure both increased substantially from 2008 reflecting the Institute's hosting of the European Federation of Geologists Council Meeting and the Institute's 10th anniversary celebrations.

A deficit of €8,345 had been predicted in the budget for 2009. However, a higher deficit of €14,234 occurred largely due to higher than forecast costs associated with hosting the EFG Council Meeting and the 10th anniversary celebrations. A deficit of up to a maximum of €7,295 is predicted in the 2010 budget. The budget for the calendar year 2010 was approved at a Board meeting held on the 15th of March 2010.

The predicted deficit for 2010 is due to a budgeted amount of €7,400 to cover the back-payment of heretofore un-invoiced membership subscription fees to the European Federation of Geologists for the years 2006, 2007, 2008 and 2009. It has been agreed with the EFG that going forward invoices will be issued on an annual basis.

It is envisioned that the Institute will return to realising operating surpluses in 2011.

Having enjoyed a successful relationship since the founding of IGI, the Board has decided that the time is appropriate to part company with LHM Casey McGrath. CMG has audited the Institute's accounts and prepared financial statements for the last 11 years. It is proposed to appoint Kieran Ryan & Co. as new auditors subject to the approval of the membership. Kieran Ryan & Co provide auditing services to IAEG. The Institute would like to record its gratitude to LHM Casey McGrath and wish the company continued success into the future.

EurGeol Morgan Burke PGeo
Hon. Treasurer

4 COMMITTEE AND DELEGATE REPORTS

4.1 VALIDATION COMMITTEE

The validation Committee held three validation interview sessions since the last Annual General Meeting in May, 2009.

On the 27th May 2009 a panel comprising Mark Conroy (Chair), Kevin Cullen and Morgan Burke interviewed five candidates:

- i) Barry Sexton
- ii) Jenny Rush
- iii) Brendan Almack
- iv) Georgi Magaranov
- v) Neil Sandes

The five candidates met the required educational and technical criteria and were recommended by the interviewing panel for acceptance as Professional Geologists.

On the 8th October 2009, a panel comprising Mark Conroy (Chair) David Blaney and Morgan Burke interviewed five candidates:

- i) Suzanne Tynan
- ii) Richard Langford
- iii) Jonathon Talbot
- iv) Shane Bennett
- v) Michael Mlynarczyk

The five candidates met the required educational and technical criteria and were recommended by the interviewing panel for acceptance as Professional Geologists.

On the 4th November 2009 a panel comprising Mark Conroy (Chair), Sean Finlay and Kevin Cullen interviewed five candidates:

- i) Wojciech Laskowski
- ii) James Hodgson
- iii) Noel O'Keeffe (re-election)
- iv) Marie Fleming
- v) Sandy Archibald

The five candidates met the required educational and technical criteria and were recommended by the interviewing panel for acceptance as Professional Geologists.

The mix and competence of candidates interviewed in the past year has demonstrated the varied disciplines in the IGI, extending from mineral geologists, to hydrogeologists, to geophysicists, to engineering geologists. The elected candidates will add a welcome mix to the experience of other IGI members.

EurGeol Mark Conroy PGeo.

4.2 CONTINUING PROFESSIONAL DEVELOPMENT

Since joining the board in May 2009 and being allotted the responsibility of looking after the IGI's CPD programme, I have come to realise just what an important a factor it is in our relationship with other Professional bodies. The IGI's standing in the geological international community is very much dependant on the rigour and completeness of our CPD reporting process. To quote Ollie Bonham from the CCPG "the philosophy being that the very fact that a professional geoscientist takes CPD seriously and takes part in a structured program with annual reporting requirements – wherever that may be – shows an effort is being made to maintain/increase competences and thus become better equipped to do good work and to protect the public interest".

I received that in an email from Ollie Bonham when last October I sent a proposed revision to our CPD to the various other bodies with which we have mutual recognition. The proposed change was to introduce a new category "experience gained through employment". The need for this category arose from a submission by one of our members who found that a complex evaluation project that he had carried out, which resulted in vastly expanding his own expertise, was not covered by existing categories. Unfortunately, most of the replies from the other organisations were negative to this revision so it was dropped. Instead, we increased the number of hours allowable for "informal activity" from 20 to 30. We believe this better reflects how many of our members gain additional knowledge and expertise especially those working in industry.

Although only 30 CPD returns for 2009 have been received up to 15th March 2010, it is expected that similar to previous years most will come in April. Unfortunately, at the last time of counting 8 CPD's from 2008 remained outstanding. These are currently being pursued. Clearly we do not wish to lose members but at some stage we may have to bite the bullet and threaten those that have not submitted their CPD's with expulsion. The CPD is that important. On a more pleasant note the Audit Committee who scrutinise c. 25% of the returns reported no problems.

EurGeol Andy Bowden PGeo.

4.3 ETHICS COMMITTEE REPORT 2009 - 2010

Two complaints in relation to members were received by the IGI Board and forwarded to the Ethics Committee. In relation to one complaint, it was determined that no professional misconduct had taken place. The second case involved more serious allegations and the IGI have taken legal advice in relation to this complaint. Following receipt of final advice, a determination will be made.

In addition, the IGI Ethics and Disciplinary sections of the Articles of Association are currently under review to determine if they require modification in light of recent EU legislation in respect of professional regulatory organisations. Should the Articles of Association require amendment, these will be presented to the members by the board for consideration and vote at a general meeting.

EurGeol Professor Ben Kennedy PGeo.

4.4 COMMUNICATIONS COMMITTEE

The IGI communicates with its membership throughout the year via the IGI's website (www.igi.ie), direct emails from the IGI office and the IGI Newsletter.

As well as CPD forms and up-to-date information on news, employment, upcoming events and training courses the IGI website also contains copies of all of the IGI's publications. These include a continually updated membership directory, IGI codes and guidelines, published papers, past conference presentations and other documents, all available for download.

Members are encouraged to send any activities or positions that they wish to advertise on the website to admin@igi.ie. Geological photographs are also welcome as it is the IGI continues to compile an image library of Irish geological photographs for non-commercial downloading. Additionally it is intended that in the near future membership subscription, applications fees and course fees etc. will be able to be paid electronically via the website.

A special bumper 10th Anniversary edition of the newsletter was published in 2009. It is the committee's intention to return to a quarterly newsletter schedule for 2011. We invite all members to forward items of news or general interest for inclusion in the newsletter.

EurGeol Stephen Bradley PGeo

4.5 CONFERENCE AND COURSE COMMITTEE

Following the highly successful Resources Reporting Conference at the end of the 2008 – 1009 IGI Year, and in light of current market conditions, it was decided by the IGI Board to concentrate our efforts on affordable, member-directed training courses and seminars to enable the IGI membership to develop their skills in a difficult economic climate. As the IGI as significant retained funds from previous years, it was further decided that IGI members attending such courses or seminars are to receive a substantial course fee discount over attending non-members.

Initially, two subjects have been developed for courses. A course on EU Directives and the Geosciences will be held between distribution of this report and the AGM and it is hoped that this course will be re-run at a later date this year. A second course on Peat and Slope Stability Assessment is being organized but has been delayed as the board member initiating the course has emigrated. Work to date has been passed to another board member and the course preparation is well in hand.

Other courses, workshops, seminars etc. will be prepared as interest, demand and resources allow and IGI remains committed to providing substantial discounts for members at these events.

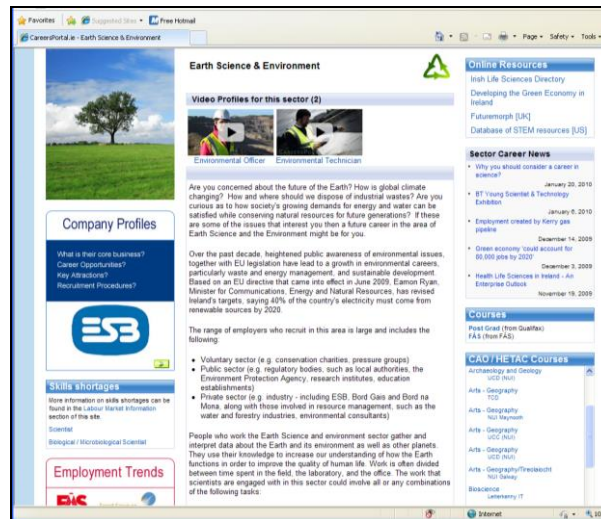
EurGeol Dr John G. Kelly PGeo

4.6 EDUCATION / PUBLIC OUTREACH

A new Irish national career guidance resource www.careersportal.ie was officially launched by Forfás and Fás in April 2008, which has attracted over 350,000 visitors since its launch. It was set up to provide a national source of relevant and up-to-date information for career decision making, as recommended by the *Expert Group on Future Skills Needs* in July 2006. This information was previously collected by different groups and published in a variety of media. A central, integrated web resource was designed where information could be clearly accessed, allowing career seekers to plan (or change) their career. **CareersPortal** has

become a central service to both 2nd and 3rd level students, parents, career guidance professionals and job seekers. Careers Guidance teachers in Ireland (ROI) are now using it as first port of call.

Due to the efforts of IGI and other players in the earth sciences sector, a new Industry Sector for the portal entitled **Earth Sciences and Environment** has been created:



The purpose is to provide basic information for anyone who is interested in exploring the various career and educational opportunities in the sector. Note there are no live 'clips' from geosciences (only environment), as our commercial geo-sector has not actively engaged with the initiative to date. The webmaster has pulled together all of the publicly available information on four Geo/Earth Sciences, including **Geology, Meteorology, Oceanography** and **Astronomy**. These data have been constructed without input from geoscientists to date. It is timely that the geoscience community engage with this effort and provide inputs to the website, as it will surely impact on careers choices, particularly at second level. It would be great to get industry sponsorship to create video clips of practising geoscientists e.g. in hydrocarbons, exploration, mining and geo-services. The IGI will continue to work with Forfás in 2010 to achieve an attractive, but fully informative, Geosciences webpage.

BT Young Scientists Exhibition: The Geoscience multi-partner stand at the BT Exhibition in January 2010 was just excellent and gets stronger each year. The IGI was represented by Deirdre Lewis, who spent an enjoyable few hours answering queries, facilitating the mineral quiz, and walking in the trail of the Valentia Island tetrapod. The 2010 Haiti earthquake has just happened and it was fascinating to see how the students responded to Tom Blake (DIAS) demonstrating seismology in action. Full marks must go to Enda Gallagher, Sophie Preteseille and their colleagues at GSI for their organisation and commitment to this essential promotion of Geoscience.

Public Outreach: National Heritage Week is scheduled for 23-27th August this year, under the auspices of the Heritage Council. If anybody is interested in running a field trip or event aimed at the general public or youth groups, please feel free to register your event at www.heritagecouncil.ie (open for event registration from 1st April).

EurGeol. Dr. Deirdre Lewis PGeo.

4.7 UPDATING OF IGI GUIDELINES 'GEOLOGY IN EIS'

The IGI's *Guidelines for Geological Contributions to Environmental Impact Statements (EIS)*, published in 2002, is continuing to be reviewed in the context of evolving EU requirements and national legislation. Since 2002, there have been significant changes in environmental legislation, reflecting developments in public perception, risk assessment and understanding across member states. The ongoing review will seek to incorporate some of the key elements of new regulations and legislation pertaining to Geoscience. Particular items of recent interest include:

- A recently published study on geochemical characterisation and environmental matters in relation to historic mines in Ireland, '**Historic Mine Sites Inventory & Risk Classification Volume 1**', has just been launched by the EPA, GSI, with inputs from the DEHLG and DCENR in March 2010. It complements **Volume II (Site Safety)** which focused on safety matters pertaining to the sites. This is an excellent piece of work and staff at the GSI and EPA must be congratulated for their painstaking data collection and interpretation in prioritising sites for risk assessment, monitoring and if necessary, rehabilitation.
- New provisions of the **Minerals Development Bill** (due to be published in 2010);
- New **Regulations for Geothermal Energy**;
- **EU Waste Framework Directive** and daughter Directives;
- **EU Carbon Capture & Storage (CCS) Directive**, due to be transposed to Irish law by June 2011;
- **EU Mine Waste Directive**;
- **EU Environmental Liability Directive**;
- **EU Directive on REACH** (Registration, Evaluation and Authorisation of Chemicals);
- **EU Framework for Protection of Soils**

The IGI was again represented at a Euromines workshop hosted by the Irish Mining & Quarrying Group (IMEG) of IBEC in Dublin in September 2009, which provided a useful update on the complexity of the various EU directives. It is intended to complete the EIA review in the coming term, so that the IGI Guidelines are fully up to date and compliant with EU and Irish legislation.

EurGeol. Dr. Deirdre Lewis PGeo.

4.8 GUIDELINES FOR DRILLING OF SHALLOW GEOTHERMAL BOREHOLES

A framework document for the guidelines has been produced and is currently undergoing review before being circulated to various stakeholders for their input. The guidelines will deal with the drilling and installation of shallow geothermal boreholes down to a depth of ca. 300m.

The guidelines will cover the following topics:

- a) General background
- b) Sustainability
- c) Need for Guidelines
- d) Objective of Guidelines
- e) Geothermal energy sources in Ireland
- f) Shallow geothermal borehole construction (with step-by-step graphical representation)
- g) Protocols for drilling and installation of shallow geothermal boreholes
- h) Health and Safety
- i) Quality assurance and quality control
- j) A list of reference materials

It is proposed to have a final draft for review by the various stakeholders by the end of summer 2010, and to have a completed document ready for publication by the end of 2010.

EurGeol. Barry Balding PGeo.

4.9 EUROPEAN FEDERATION OF GEOLOGISTS

During 2009 the EFG continued to promote the professional mobility and status of geologists in 26 member countries across 'Europe' through the expanding use and recognition of the **EurGeol** title, involvement in two EU funded projects, making representations to the EU Commission and liaising with other international geological bodies. National and international awareness of the profession is maintained through its publication of the European Geologist Magazine and the EFG newsletter, close liaison with the EU parliament and via its own web site at www.eurogeologists.eu.

The Federation is run by a Council consisting of delegates from all member national associations such as the IGI, from which a 5 member Board is elected. The IGI delegates for 2009 were Fionnuala Collins, Piers Gardiner and Gareth Jones (who replaced Fionnuala Collins for the December Council meeting).

There were the usual two meetings of Council in 2009; The IGI hosted the first of these in Dublin in May, while the second was held as usual in December at the EFG Office in Brussels. Relevant items from the two meetings are:

- (1) The award of the EFG Medal of Merit to Gareth Jones
- (2) Election of new President and EU Delegate
- (3) EFG involvement in two EU funded projects: the Geotrained Project with a budget of €200,000 and the EuroAges Project (budget €35,000). The former is for the training of professionals involved in the installation of ground source heat pumps (GSHP) across Europe, focused on system designers and drillers, and includes an EU-wide certification scheme. The EuroAges project concerns developing framework quality standards across EU for the assessment of higher education programmes in geology

in the context of the Bologna Process. The EurGeol title is very relevant in this regard. The inception of both was reported on in the last Annual Report.

- (4) EFG involvement in the Terrafirma project, which focused on different user requirements for measuring and monitoring terrain motion across Europe by satellite based radar interferometry.
- (5) The upgrading of the EFG Statutes and Regulations.
- (6) The ongoing need for articles for inclusion in the European Geologist Magazine. The IGI has an excellent track record to date!

May 2009 Council Meeting

This formal meeting of the Council was held in Dublin at Dublin Castle on the 15th-16th May and attended by 25 delegates from 19 countries, 5 Past Presidents, and 3 EFG Officials. In addition there were two delegations from Associate Members. One was from the American Institute of Professional Geologists and the other from the Canadian Council of Professional Geologists. The Past Presidents had been convened by Gareth Jones and proved a welcome source of wisdom during a meeting with several potential flashpoints.

Elections for the posts of President and EU Delegate were scheduled to take place at this meeting. The election for President proved contentious, with the incumbent believing that his term of office should not end until December. Following a vote however, Council agreed that the election should take place at this Meeting, Ruth Allington (UK) was elected President, with Marino Trimboli (Italy) elected as the EU Delegate.

The Treasurer showed that the EFG finances were not as healthy as had been thought. The EFG accounts were to be externally audited for the first time, starting with the 2008 accounts. These showed a loss of €12,500 compared to a budget prediction of €38,500 profit. In addition, the Council approved a write off of bad debts prior to 2006 totaling €14,000 for the 2009 accounts, with a resulting loss predicted for the year.



Delegates at the EFG Council Meeting in Dublin Castle, May 2009.

Progress on the EU funded projects was reported upon. The initial work for the Geotrained Project in the past 6 months, in which the EFG has a management and communication role, consisted of developing a website and e-learning platform and the provision of experts for two teaching groups. The two groups are GSHP design (including geological issues), and GSHP drillers and installation. Courses would start in June. The first phase of the EuroAges Project started in April, focusing on a compilation of the geological qualification frameworks and outcomes in Europe for both 'Bachelor' and 'Masters' degrees.

A review of the 2002 Statutes and Regulations, which had been led over the past two years by Bob Chaplow (UK) and provided to National Associations for their views after the December 2008 council meeting also proved contentious. A small number of NAs had provided proposed amendments in this period. The IGI had made substantial input during which it became clear that there were widely different views that extended beyond the review parameters. The IGI therefore submitted a compromise set of Statute revisions and proposed that the Regulations be considered subsequently by Council, in the light of the proposed new Statutes. After a difficult and long working group session the IGI Statute proposals were accepted with little change and subsequently approved by Council, with the Regulations returned to the working group for further work.

Once again the work of an Irish delegate was recognized, this time by the award of the EFG Medal of Merit to Gareth Jones. This extremely well deserved award was made in recognition of his outstanding contribution to the organization over many years, encompassing his time as Secretary General, Treasurer, and President as well as his tireless 'behind the scenes' activities as a delegate and Past President. During his time the EFG moved from Paris to a professional footing with a staffed office in Brussels, as well as expanding its membership and creating international links with other professional bodies, and thanks to Gareth has a remarkable pictorial record of individuals and meetings over the last 30 years.



Gareth LI. Jones receives the EFG Medal of Merit from EFG President Manuel Regueiro

December 2009 Council Meeting

This regular winter meeting held in Brussels on the 5th-6th December was an "informal" session, since no voting matters had been tabled. 20 Council members from 12 countries attended, together with 4 EFG officials. The State Commission of Ukraine Mineral Resources was welcomed as an Observer Member, bringing the EFG Membership up to 21 Full Members, 5 Observer Members and 2 Associate Members.

The Board Members presented their reports, with significant attention paid to the Federation finances. The Treasurer pointed out that core income over expenditure was only some €2,500 and dependent in all National Associations paying their fees. Office staff cost was the

main expense, and an additional staff member was considered needed in view of time being spent on the Geotrainet and EuroAges project. The Geotrainet Project however was providing a sufficient profit to the EFG to cover temporary additional staff. Following debate on raising Members fees, it was decided that there should be no increase in 2010, and that a working group be established to provide options for discussion at the next Council Meeting. Raising the EurGeol fee was also mooted, but the IGI resisted any significant change. The revised budget for 2010, incorporating the unexpected profit from the Geotrainet project with a resulting change to a minor profit was accepted.

Other Board topics included confirmation that the EFG office in the Belgian Geological Survey is now a secure and permanent arrangement, and that the EuroGeoSurveys office in Brussels is relocating to join the EFG in the same location with consequent increased synergy. It is hoped that they will also utilise the European Geologist Magazine.

The Vice President, a Board Member of IYPE, attended its final meeting in Lisbon. He reported that it has made a loss of over 0.25 million USD each year. Its legacy is 10 books, various projects (One Geology etc), and a Planet Earth Institute. UNESCO want IYPE to continue, but the IUGS are negative. At the YES (Young Earth Scientists) meeting 38 countries were represented, with the next meeting to be held in Brisbane in 2010.

The updating of the EFG regulations was also discussed, based on the revisions made by a meeting of the working group in October and then circulated to Council. The IGI was one of the very few National Associations that had submitted detailed observations on the revisions. A number of the IGI concerns remained outstanding for the review group to consider further but the bulk of the new regulations were approved.

The Terrafirma terrain-motion project, started 5 years ago, ended Phase 3 in mid-2009 and has published an Atlas of the work to date. This consists of studies at 54 locations across Europe, including a site in Cork Harbour in collaboration with GSI. The EFG role as President of the User Executive body was to represent the users of the radar products. The project is continuing as the "Extension Project", and will include small scale mapping work.

Two training courses for the Geotrainet Project were organized, of which one, "Training the Drillers" was held in the Geological Survey of Ireland in September. Over 60 attended from 9 countries with the bulk from Ireland. Organised by CPMS Ltd, the Irish partner in the Project, it focused on the installation of shallow geothermal systems.

The EuroAges Project work since May consisted of evaluating and integrating questionnaires from involved organizations, from which a database of 127 Higher Education Institutions has been created. Unfortunately only 16 HEIs responded. The UK said that the Geological Society of London have an accreditation panel for all earth science Bachelor and Masters degrees that compares syllabi from different universities, and is also involved in approving training courses run by companies.

EurGeol Piers Gardiner PGeo
EurGeol Fionnuala Collins PGeo
EurGeol Gareth Jones PGeo

4.10 GSI CONSULTATIVE COMMITTEE

The GSICC meets on a six-monthly basis. The next meeting is scheduled for 15th April 2010.

Recent Developments in the GSI work programme

The INFOMAR data acquisition programme has continued through the year, using the newly acquired ship, the RV Keary. The data is in demand from fisheries, National Parks & Wildlife Service, wind energy projects, the Navy in relation to new shoal identification and offshore exploration projects among others. Progress with the RV Keary has been slow but steady as it is a small vessel, but has the advantage of being able to survey in shallow waters. Continued funding of the surveying programme is required to keep the project on track.

Carbon Capture and Storage (CCS). The 2008 study of the CCS geo-capacity of the island of Ireland (available on www.sei.ie) indicated that we had extensive theoretical to effective storage potential, equivalent to 93 billion tonnes of CO₂, which may be extremely valuable in terms of carbon credits. An EPA-GSI study of the storage potential in the West Clare Basin beneath Moneypoint Power Station reached the conclusion that the Westphalian sandstones have insufficient poroperm characteristics and are too shallow onshore, to be considered as an effective storage medium. A proposal is being submitted to assess the practical potential at Kinsale Head and a decision on possible European funding is expected by mid-year.

Groundwater: Recent developments in the Groundwater Programme include continuation of National Vulnerability Mapping, a key part of Groundwater Protection Schemes, which is being advanced steadily under NDP funding. Data are made available free of charge over the website. There has been heavy web traffic accessing the maps and huge positive feedback from the public on the map products provided.

Natural Hazards: A study of landslide susceptibility is being undertaken by consultants with NDP funding. Recent progress in the Dublin GeoUrban project includes rock head and depth-to-bedrock maps and a 3D visualisation is being prepared.

GeoParks: GSI provided financial support to Marble Arch Caves Geopark (now the first transnational geopark), Copper Coast Geopark and the Burren/Moher aspirant Geopark. GSI also assisted the publication of an excellent Cooley-Gullion-Mourne geological field guide by Sadhb Baxter and a guide to the geological heritage of County Sligo.

Cooperation with GSNI: The Building Stones poster for the island of Ireland has been published and distributed to schools, while groundwater mapping, RESI, CCS and other activities continue to evolve on both a north-south and east-west basis.

International Co-Operation: A National Committee to develop the EPOS (European Plate Observing System) was being established in response to an ESFRI Call for Proposals. The Northeast Atlantic Geoscience (NAG), a cluster of geological surveys, was developing urban and CCS initiatives. The Dublin SURGE Project (Soil Urban Geochemistry) has being launched in conjunction with the Geological Survey of Norway (NGU).

Public Outreach: Some activities developed for the International Year of Planet Earth (IYPE) in 2008 were being sustained including: *One Geology*; the highly successful *Seismology in Schools* (run by Dublin Institute for Advanced Studies), the highly visited Geoscience multi-partner stand at the *BT Young Scientist & Technology Exhibition*, as well as the Erratics Essay Transition Year Competition.

The GSI is keen to ascertain the value of its products among its public ('clients'). The GSI is currently examining the priority datasets from public surveys; how added value can be optimised for stakeholders and how the stakeholders may give feedback in future.

EurGeol Róisín Goodman PGeo

4.11 GSNI CONSULTATIVE COMMITTEE

The 2009 annual meeting of the GSNI Consultative Committee was held in the GSNI offices at Colby House, Stranmillis Road on the 3rd December 2009. The meeting was attended by a wide range of interested parties from industry, government, geological surveys and other organisations.

Work completed by GSNI in the preceding year was outlined and work in progress detailed. Staff allocations and movements were outlined and a series of presentations were given outlining progress in a variety of areas including public outreach information and posters, ongoing mapping, further developments in the TELLUS arena, including the possibility of TELLUS 3 and environmental and geohazards projects.

The meeting finished with a hands-on trip into the new GSNI digital portals (including online site assessment for shallow geothermal capacity) and a first excursion through the geology of parts of Northern Ireland in the 3D viewing room.

EurGeol Dr John Kelly PGeo

4.12 JOINT MEETING OF THE GSI & GSNI CONSULTATIVE COMMITTEES

The third joint meeting of the Consultative Committees of GSNI and GSI took place on Thursday 15 April 2010 at the Geological Survey of Ireland. The IGI representatives on both committees attended the meeting.

The survey directors, Peadar McArdle and Garth Earls, presented a review of recent achievements in geosciences cooperation and recent developments and publications of the GSI and GSNI. Following this a discussion on information management in GSI and GSNI took place that involved the joint committee breaking into three groups for breakout sessions to discuss:

- Identify the 5 priority datasets of the surveys
- What can the surveys do to maximise added value for stakeholders and customers?
- What is the best way for users to provide feedback on our information services?
-

Following the breakout sessions the rapporteur of each group presented the results of each discussion group to the joint committee.

The joint meeting of the Consultative Committees provides an example of the excellent working relationship between the two geological surveys and the introduction of the breakout sessions facilitated the meaningful input of the members of the committees to the discussions of the joint meeting.

EurGeol Stephen Bradley PGeo (GSI CC)
EurGeol Dr John Kelly PGeo (GSNI CC)

4.13 RIA GEOSCIENCES COMMITTEE

The Royal Irish Academy Geosciences Committee (RIAGC) is an all-island body comprising representatives of public, private and academic sectors, which meets quarterly. The RIAGC is concerned with promoting and fostering excellence in geoscience and advises the RIA on policy and research issues pertaining to minerals, water, marine, energy and also geo-related climate issues, such as carbon capture and storage. It has an agreed annual programme of work, which is carried out by the institutional (GSI/ GSNI/ Universities) and directly elected members. Deirdre Lewis represents the IGI on the Committee. For more information see:

<http://www.ria.ie/our-work/committees/committees-for-science/geosciences.aspx>.

During the 2009-2010 period, the RIAGC developed a major new policy document, entitled '*Geoscience: Towards a Smart Economy – The Potential Economic Impact of Geoscience to 2020*', based on two public seminars held in Belfast and Dublin, economic research commissioned by the GSI, academic consultations and contributions from committee members. It sets out priorities for geoscience research, services, education and outreach, including an assessment of the impact which geoscience continues to have on the island of Ireland. It specifically focuses on the benefits and funding needs of ongoing island-wide, applied research projects (INFOMAR, TELLUS, RESI, etc), Energy (hydrocarbons, geothermal, carbon storage, improved deep data modelling), Climate Change (groundwater resources, climate change systems, CCS, integrated datasets), Marine (opportunities, INFOMAR, seabed monitoring); Mineral Resources (3-D modeling of geophysical & geological data; data mining; metallogenic research; fluid flow & mineralizing systems); Natural Hazards (large-scale datasets required – TELLUS/ INSS/ RESI; seismic research, volcanic hazards; global implications); Water – extreme weather impacts; modeling of bedrock geology, fluid flow; high resolution; 3D/4D visualisation and impacts on ecosystems. All of the above impact on the environment and socio-economic wellbeing: central to achieving excellence in geoscience will be an ongoing commitment to public communication and education, particularly in attracting primary and second level students to continue into third and fourth level study & research.

In 2010, the RIAGC hosted a conference entitled '*Carbon Capture & Storage: Bridging the Transition from Fossil Fuels to Renewables*' at Dublin Castle on March 10-11th. The conference attracted a focussed audience of c. 170 international delegates from industry academia and non-governmental organisations. A series of papers covering all aspects of carbon capture, transport, storage, environmental impact and associated risks, monitoring & regulation within the context of the forthcoming EU CCS Directive, were presented and really good debates followed. An RIA/ Irish Times public debate was held one evening, with speakers from the CCS Association and World Wildlife Fund examining the topic from different angles. The key element of concurrence suggested that CCS should be a bridging strategy only and globally, we should be moving towards non-carbon dependent economies. A summary of the conference deliberations will appear in the IGI's Spring 2010 newsletter. This was an excellent conference and commenced the valuable process of public debate on carbon capture, transport and geological storage in Ireland.

EurGeol. Dr. Deirdre Lewis PGeo.

5 REPORTS FROM OTHER BODIES

5.1 RESOURCE REPORTING – PERC AND CRIRSCO

The PERC Code was published on December 30th 2008 and promulgated in January 2009. It was then formally adopted by the IGI. The Code is therefore binding on all members of the IGI who act as Competent Persons in the field of resource reporting.

Having achieved that milestone, the immediate future role of PERC is in lobbying regulatory and other financial institutions in Europe in general, and the UK in particular, with the purpose of gaining acceptance of the PERC Code as the reference minerals resource reporting standard in Europe. PERC is actively pursuing that goal through discussion with the UKLA¹ and, at the European level, with CESR². IGI will be contacting relevant persons in DCMNR, DETI and the Dublin Stock Exchange to promote adoption of the PERC Code for resources reporting in Ireland.

Looking to the future, PERC is in the process of restructuring in order to ensure that strong links are maintained with the sponsoring professional bodies, and that its membership profile continues to reflect the range and diversity of its stakeholders. This will involve the professional organizations, such as IGI, formally nominating representatives to it. These representatives will be joined by others from any organization which wishes to affiliate to PERC and which supports PERC's aims. These may be trade associations or companies, or professional associations which do not themselves grant accreditation to the level required for competent persons. There will also be a mechanism for co-option of individuals as temporary members to assist PERC in specific tasks where their expertise or special knowledge, or influence, is seen to be advantageous.

PERC managed the CRIRSCO – GKZ³ Working Group on the harmonisation of international and Russian reporting systems. This study has resulted in the publication of a discussion document which can be downloaded from the PERC and CRIRSCO websites. Publication of a final text is expected in mid-2010. The objective is to assist CP's in translating/mapping the Russian classification to the CRIRSCO template. This will be highly beneficial to "western" resource companies operating in Russia, and to Russian companies listed on "western" stock exchanges.

CRIRSCO held its Annual Meeting in Beijing, China in October, 2009. The Chairman (Roger Dixon – SAMREC) welcomed new members Grigoriy Malukhin (PERC) and Ian Douglas (SME) and acknowledged the retirement of John Clifford (PERC) and Jean-Michel Rendu (SME). CRIRSCO continued engagement with the UN-ECE⁴ and the SPE⁵ resulted in the publication of a revised UNFC⁶, as a high level system of definition that can be supported by both the minerals and hydrocarbon sectors without compromising the individual classifications that are in practical use. A close relationship is also being maintained with the IASB⁷ who are looking at the valuation of Mineral Reserves for financial reporting. It is expected that IASB will make a decision whether, or not, to proceed to an International Financial Reporting Standard by the end of 2010, with the likelihood that, if they do proceed, the CRIRSCO Template definitions be used.

EurGeol John A Clifford PGeo; EurGeol Paul Gordon PGeo.

1 United Kingdom Listing Authority

2 Commission of European Security Regulators

3 GKZ: Russian State Commission on Mineral Reserves

4 UN-ECE: United Nations Economic Commission for Europe

5 SPE: Society of Petroleum Engineers

6 UNFC: United Nations Framework Classification

7 IASB: International Accountancy Standards Board

6 IGI 10TH ANNIVERSARY CELEBRATIONS

The IGI's 10th Year was marked with a range of activities on May 14th and 15th when the IGI hosted an international Workshop on Natural Resources Reporting in Dublin Castle. A number of events coincided with the Workshop and the 10th Year celebrations including the inaugural IGI golf outing, the EFG Council Meeting and the presentation of the Institute's 1st Medal of Honour.

The golf outing was a great success in near still, misty but dry conditions at Powerscourt Golf Club near Enniskerry in Co. Wicklow. and the prizes were sponsored by Investec.

The IGI Workshop on Natural Resources Reporting was a tremendous success with delegates attending from Australia, America, Asia and Europe. The day long Workshop was opened by Minister Conor Lenihan and heard from speakers drawn from the minerals, hydrocarbon, aggregate and regulatory sectors describing their respective Reporting Codes and on the implications of the EU Directive on Mine Waste. The need for continuity between the Reporting Codes was stressed as was the importance of honesty and integrity from the geological community in the presentation of natural resources information.

At the evening reception in Dublin Castle, EFG delegates Fionnuala Collins and Piers Gardiner formally welcomed the EFG delegates to Dublin. The IGI President Kevin Cullen made a presentation to the EFG President Manuel Regueiro. Manuel, in accepting the IGI presentation, announced that the EFG was awarding a Gold Medal to IGI and EFG past president, Gareth Ll. Jones, in recognition of the role that Gareth has played in the development of the EFG.

Christian Shaffalitzky, a Member of the Transitional Council, opened the celebrations to mark the IGI's 10th Year. He outlined the reasons for the formation of the IGI and how the Institute has progressed since 1999. Presentations were made to the IGI office staff Susan Pyne and Ethel Stringer in recognition of their ongoing efficient running of the Institute's affairs.

Inscribed copies of the recently published 2nd edition of the Geology of Ireland were presented by IGI Past President Dr. Peter O'Connor to Dr. Peadar McArdle, Garth Earls, Gareth Ll. Jones, and Donal Daly to mark their immense contributions to geosciences in Ireland.



Presentations to the IGI on our 10th Birthday. Left from the EFG President Manuel Regueiro and to the right from the AIPG President John Bognar.

The IGI's first Medal of Honour was then presented to John Clifford by Dr. Eileen Doyle, Past President and Chair of the Awards Committee, in recognition of his outstanding contribution to geosciences in Ireland and abroad.



John Clifford receives the IGI Medal of Honour from Past-Presidents Eibhlín Doyle and Kevin Cullen at the IGI 10th Anniversary Celebrations.

The formal proceedings were closed by the IGI incoming President John Kelly who outlined his plans to take the Institute forward over his 2 year term of office. With the formal proceedings over, the celebrations carried on as IGI members, visiting EFG delegates and Workshop attendees enjoyed the food, drink and music kindly co-sponsored by Investec and Golders.

EurGeol Kevin Cullen PGeo

7 NOTICE OF ANNUAL GENERAL MEETING

Notice is hereby given that the Annual General Meeting of the Institute of Geologists of Ireland Limited will be held at 7.00 p.m. on May 26th 2010 at the Geological Survey of Ireland, Beggars Bush, Haddington Road, Dublin 4 for the following purposes:

- i) To receive and consider the Directors' Report and Audited Accounts for the year ended December 31st 2008.
- ii) To elect Directors.
- iii) To appoint Kieran Ryan & Co. as Auditors and to authorise the Directors to fix their remuneration.
- iv) To transact any other ordinary business of the Annual General Meeting.

By Order of the Board

Gerard A. Stanley
Secretary

Dated April 25th 2010.

8 NOMINATIONS FOR DIRECTORS

The Nominations Committee, under the Chair of Kevin Cullen (immediate Past-President), has presented the following list of candidates to stand for election at the forthcoming Annual General Meeting on 26th May 2010.

EXECUTIVE DIRECTORS

President	Dr John Kelly (2 nd year of term)
Vice President	Dr Deirdre Lewis
Secretary	Gerry Stanley (2 nd year of term)
Treasurer	Morgan Burke (2 nd year of term)

NON-EXECUTIVE DIRECTORS

Barry Balding
Andy Bowden
Mary Carter
Dr Jonathan Derham
Paul Gordon
Marie Fleming

NOMINATIONS COMMITTEE

EurGeol Kevin Cullen (Chair)
EurGeol Gareth Ll. Jones, PGeo
EurGeol Dr Eibhlín Doyle PGeo
EurGeol Peter O'Connor PGeo
EurGeol John Clifford PGeo

No additional nominations to those above made by the Nominations Committee were received by the IGI office by Friday, 9th April 2009.

9 IGI CORPORATE STRUCTURE

IGI OFFICE	UCD School of Geological Sciences, UCD, Belfield, Dublin 4 Tel. +353 1 716 20 85; Fax +353 1 283 7733 admin@igi.ie www.igi.ie
ADMINISTRATIVE SECRETARY	Mrs. Susan Pyne
ACCOUNTS PERSON	Mrs. Ethel Stringer
AUDITORS	Casey McGrath & Associates, 6 Northbrook Road, Dublin 6
BANKERS	Bank of Ireland, College Green, Dublin
IGI REGISTERED OFFICE	6 Northbrook Road, Dublin 6
COMPANY NUMBER	31440
CHARITY NUMBER	CHY 13580

IGI Board Members

Executive Directors

President:	EurGeol Dr John Kelly, PGeo
Vice President:	EurGeol Stephen Bradley PGeo
Secretary:	EurGeol Gerard Stanley, PGeo
Treasurer:	EurGeol Morgan Burke, PGeo

Non-Executive Directors:

EurGeol Barry Balding, PGeo
EurGeol Andy Bowden, PGeo
EurGeol Mary Carter, PGeo
EurGeol Deirdre Lewis, PGeo
EurGeol Paul O'Sullivan, PGeo (resigned)
EurGeol Marie Ryan PGeo (resigned)

EFG National Licensed Body

The IGI is licensed by the European Federation of Geologists to award the professional title of European Geologist (EurGeol)

Standing Committees

Ethics Committee

EurGeol Professor Ben Kennedy, PGeo (Chair)
EurGeol Dr John Ashton, PGeo
EurGeol Shane O'Neill, PGeo
EurGeol Dr Matthew Parkes, PGeo

Disciplinary Committee

EurGeol John Arthurs, PGeo
EurGeol Dr Eibhlín Doyle, PGeo

Nominating Committee

EurGeol Kevin Cullen (Chair)
EurGeol Gareth Ll. Jones, PGeo
EurGeol Eibhlín Doyle PGeo
EurGeol Peter O'Connor PGeo
EurGeol John Clifford PGeo

Validation Committee

EurGeol Mark Conroy PGeo (Chair)
 EurGeol David Blaney PGeo
 EurGeol Kevin Cullen PGeo
 EurGeol Morgan Burke PGeo
 EurGeol Sean Finlay PGeo

CPD Audit Committee

EurGeol Andy Bowden PGeo (Chair)
 EurGeol Dr Julian Menuge, PGeo
 EurGeol Gareth V. Jones, PGeo
 EurGeol Dr Ian Somerville, PGeo

The IGI is represented on the following bodies:

Organisation	IGI Representative
European Federation of Geologists	EurGeol Andy Bowden PGeo, EurGeol Dr. Piers Gardiner PGeo
EFG CPD Working Group	EurGeol Dr. Julian Menuge PGeo
EFG Disciplinary Committee	EurGeol Christian Schaffalitzky PGeo
GSI Consultative Committee	EurGeol Stephen Bradley PGeo
GSNI Consultative Committee	EurGeol Dr. John Kelly PGeo

Founding Sponsoring Bodies

The IGI was established in 1999 with the support of the following sponsoring bodies :

The Irish Association for Economic Geology,	(www.iaeg.org)
The Geophysical Association of Ireland.	(www.gai.ie)
The International Association of Hydrogeologists (Irish Group).	(www.iahireland.org)
The Irish Mining and Quarrying Society.	(www.imqs.ie)
The Geotechnical Society of the Institution of Engineers of Ireland.	(www.iei.ie)

Bodies with Reciprocal Links and/or Co-Operation Agreements

American Institute of Professional Geologists

Canadian Council for Professional Geoscientists

Geological Society of London

Bodies Recognising PGeo

Ireland

Exploration and Mining Division, DCMNR – required for prospecting licence work reports

Environmental Protection Agency – preferred for professional reports

An Bord Pleanála – preferred for professional reports

Stock Exchanges

Ireland, Dublin Stock Exchange

UK, London Stock Exchange

Australian Stock Exchange

Canadian Securities Administrators

South Africa, JSE Securities Exchange

10 AUDITOR'S REPORT