

# **INSTITUTE OF GEOLOGISTS OF IRELAND**



**2016 - 2017**

## **ANNUAL REPORT and FINANCIAL STATEMENTS**

Company number 314400. Directors: Gerard Stanley, Marie Fleming, James Hodgson, Peter Glanville

*Member of the  
European Federation  
of Geologists*

**The Institute of Geologists of Ireland**

63 Merrion Square, Dublin 2, Ireland

Tel: +353 1 662 4914 e-mail: [info@igi.ie](mailto:info@igi.ie) web: [www.igi.ie](http://www.igi.ie)

## **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.***

**June 2017**

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# **1 PRESIDENT'S REPORT**

## **1.1 ACKNOWLEDGEMENTS**

It has been an honour to serve as President of the Institute of Geologists of Ireland for the last two years and as my Presidential term ends, I have been reflecting on how rewarding the role has been and the importance for continued promotion, growth and acknowledgement of geoscience as a profession. My presidential term has been extremely busy and hopefully has contributed in a meaningful way to the growth of the Institute. I have been delighted to represent IGI at various meetings, events and conferences far and wide.

All IGI Board members volunteer their time in both developing the Institute and supporting the membership and I would sincerely like to thank them for their contributions namely Vice President Jim Hodgson; Honorary Secretary Claire Clifford; Treasurer Catherine Buckley and Board Members Dave Blaney, Henning Moe, Mairead Glennon, Vaughan Williams, Billy O'Keeffe and Cian O'Hora respectively.

I would also like to thank Morgan Burke who has worked tirelessly over the last number of years as Chair of the IGI Validation Committee and the Past Presidents of the Institute who are always on hand to offer advice and help out.

A special thanks goes to both Susan Pyne and Ethel Stringer who both retired from the IGI this year and for many years provided Administrative and Accounting support to the Institute. Sincere thanks also to Eamonn Kelly the IGI Webmaster.

The IGI acknowledges the continued support of our sponsoring bodies, the Irish Mining & Quarrying Society (IMQS), Geophysical Association of Ireland (GAI), Geotechnical Society of Ireland (GSI), Irish Association for Economic Geology (IAEG) and the International Association of Hydrogeologists (Irish Group, IAH). We are also indebted to Arup and the Geological Survey of Ireland for hosting our Board meetings and events throughout the year.

Many of our Members actively contribute to the IGI's work, through the Standing Committees and Working Groups in the varied fields of accreditation and validation; ethics and disciplinary matters; development of technical guidelines and policy; corporate governance; European and international affairs; public advocacy and outreach, for which support the Board is extremely grateful. I would like to thank sincerely thank all those Members who give extensive personal time to represent the IGI at Board level and at various conventions at home and abroad, and to those who participate voluntarily on working groups and committees in their own time. Such inputs ensure the continued, membership-led ethos of the IGI and contribute to its strength.

## **1.2 HIGHLIGHTS OF THE 2016 -2017 TERM**

Since its formation, the IGI has gone from strength to strength and 2016 was no different. This ongoing development can be attributed to the IGI members who voluntarily represent the IGI not only at board level but through representation on various working groups, conferences and committees both nationally and internationally. The membership-led ethos of the IGI has created a close-knit community where there is always an IGI member available for consultation.

The focus for IGI in 2016 was to increase our membership amongst student and graduating geologists, in terms of our Member-in-Training and Student membership category. The IGI board recognised the need for dedicated activities to engage with third level institutions in order to attract more student and early-career stage members. We are attempting to do this in a number of ways which has included providing sponsorship and a presence at IGRM along with providing an advisory role to UCC in the formation of a new taught MSc course in Applied Environmental Geology.

In 2016 a workshop on IGI Career Planning and Mentorship was held which has been the inception of the IGI's Mentorship Scheme. From this workshop, the IGI has established a free, voluntary mentorship scheme to foster long-term career development for IGI members of all stages.

The IGI's website also underwent a major redevelopment to give it a more modern and user-

friendly look and feel. The IGI has also increased its social media presence with a LinkedIn Group and a Twitter Page. A social media presence has become an essential aspect of any outward-facing communications strategy, providing a forum for the public dissemination of IGI news in an informal way.

### **IGI Representation**

IGI Members continue to represent the Institute at regular events and meetings including but not limited to the following:

IGI Members John Kelly, Billy O'Keeffe, Eoin Wyse and Gerry Stanley were active on the National Standards Authority of Ireland (NSAI) inter-disciplinary panels on Aggregates. They continue to represent the IGI and geologists at the NSAI with respect to the review and revision of standards and guidance documents in relation to aggregates. The Panel addresses such matters as pyrite in aggregate, specifications for quarry products and the role of geoscientists in the sector.

Dave Blaney has been an active member of the Concrete Block Expert Panel since its establishment by the Department of Housing, Planning, Community and Local Government (formerly the Department of the Environment, Community and Local Government).

Marie Fleming is a member of the External Relations Committee of the Geological Society of London which aims to raise public awareness and understanding of geoscience, and the professional activities of geoscientists, including the relevance of the science and profession in aiding policy and decision making concerning wealth creation, provision of resources, sustainability, environmental protection and conservation.

### **European Federation of Geologists (EFG)**

The IGI continues to be an active National Association Member, as well as a National Licensed Body Member, of the European Federation of Geologists (EFG). The IGI is represented at the EFG by Gerry Stanley and Claire Clifford. Marie Fleming is Chair of the EFG Registration Authority and attends all Board and Council meetings of the EFG.

### **Courses & Events**

As outlined in this report, a number of courses and events have been held by the IGI throughout the year, including a number of collaborative events.

The IGI provided sponsorship to a number of events this year including IGRM held at TCD in March.

### **Irish Geoscience Network**

The IGI continues to host the Irish Geoscience Network Meeting and along with IQUA and the IAEG, the IGI was involved in organising the inaugural IGN Lifetime Achievement Award where the contributions of Dr. Michael Philcox to the geosciences in Ireland, over a career spanning six decades (and counting), were recognised.

### **35<sup>TH</sup> International Geological Congress, Cape Town**

I had the honour of attending and participating at the 35<sup>th</sup> International Geological Congress (IGC) in Cape Town in September 2016. The IGC is one of the largest international geological congresses, and presented by a different country every fourth year.

Along with presenting a number of technical papers (including a co-presentation with Koen Verbruggen entitled Who speaks for Geoscience? The Irish example of national & cross-border engagement.) I was also invited to participate as a panellist on a number of GeoProfessional discussions.

I would like to thank Arup for providing sponsorship for the costs associated with attending this event.

### **Website ([www.igi.ie](http://www.igi.ie))**

The IGI website underwent a major redevelopment this year, with a move to the WordPress platform giving it a more modern and user-friendly look and feel.

Work in support of the website revamp was undertaken by Eamonn Kelly, SLR Consulting Ltd (platform migration); Peter Heath, GIS and data management consultant (website redesign) and Mairead Glennon (content review).

### **Adminstration & Office Support**

The IGI are currently in the midst of establishing new Executive Secretarial services for the Institute and appreciate the patience of the membership until this is completed.

**EurGeol Marie Fleming PGeo**

**President, 17 May 2016**

## 2 HON. SECRETARY'S REPORT

### 2.1 2016 ANNUAL GENERAL MEETING

The 2016 Annual General Meeting (AGM) of the IGI was held on Tuesday the 1<sup>st</sup> June 2016 at 6:30pm at No. 63 Merrion Square, Dublin 4. The meeting was chaired by the IGI President, EurGeol **Marie Fleming** PGeo. Minutes of the meeting have been distributed separately.

At the AGM the following were elected to the Board of the IGI to serve during the year 2016-2017:

<b>President</b>	Marie Fleming
<b>Vice President</b>	Jim Hodgson
<b>Honorary Treasurer</b>	Catherine Buckley
<b>Honorary Secretary</b>	Claire Clifford
<b>Board Members</b>	Henning Moe Mairead Glennon William O'Keefe Dave Blaney Vaughn Williams Cian O'Hora

### 2.2 BOARD MEETINGS

The IGI Board met eight times in 2016/2017 on the following dates:

- 5<sup>th</sup> July 2016
- 16<sup>th</sup> September 2016
- 19<sup>th</sup> October 2016
- 6<sup>th</sup> December 2016
- 11<sup>th</sup> January 2017
- 2<sup>nd</sup> March 2017
- 5<sup>th</sup> April 2017
- 2<sup>nd</sup> May 2017

### 2.4 MEMBERSHIP

The total membership as of the 8<sup>th</sup> May 2017 was 234 with the following membership numbers:

- 194 Professional Members (PGeo) of the Institute;
- 25 Members in Training (MIT);
- 9 Retired Members;
- 2 Associate Members; and
- 4 Student Members.

These figures demonstrate the continued and growth of the IGI over the past year and the increasing importance of the PGeo title with a total of 11 new Professional Members and six new MITs were elected during the past year

One Professional Member moved to Associate Membership.

There was no delisting of members in 2016/2017.

## 2.6 MEMBERS IN GOOD STANDING

To be a 'Member on good standing' of the IGI you must have completed and returned your CPD forms and be fully paid up in terms of subscription. It is up to individual Members to ensure that they comply with these requirements in order to be considered a Member in good standing with the Institute.

## 2.7 MEMBER COMPETENCY

It is incumbent on all Members of the IGI to ensure that they are competent in their respective fields, and that they meet the competency requirements when reporting under specific codes or regulations. The IGI Professional Membership title does not cover Members outside of their areas of competency, it is the obligation of each individual Member to ensure they are competent and/or meet any required competency requirements.

Those professional Members working in the aggregates and metals sector must ensure that they meet the competency requirements as set out in the PERC guidelines. The revised SR21 Guidelines stipulate that those reporting under the guidelines must be a '*Professional Geologist*' and '*are competent under the PERC*'; the onus is on each professional Member to ensure they meet the competency requirements.

The IGI has now established Pyrite Register for Professional Members. For those members on the register it should be emphasised that it is the ethical duty of the registered member to self-regulate as an Expert Person.

Please note that the definition in the relevant Aggregate Standards will be updated from "Professional Geologist" to "Competent Person" who will be a Professional Geologist or equivalent qualified person with a stated minimum level of relevant experience.

The IGI continues to maintain the Landfill Register for Professional Members who are Competent persons in respect the EPA Code of Practice for environmental risk assessment for regulated and unregulated waste disposal and contaminated land. As with the Pyrite Register, the register to self-regulate as a Competent Person as per the Code of Practice.

## 2.8 IGI ADMINISTRATION

The IGI Board, various committees, panels and working groups have been supported by the IGI office administrator Susan Pyne and Ethel Stringer who both retired earlier this year. The Board acknowledge the contribution made by both Susan and Ethel to the IGI.

The Board intend to appoint an Executive Secretary to assist with the administrative and financial duties of the IGI office. A temporary replacement has been recruited to assist the Board in the interim until a new Executive Secretary has been appointed.

## 2.8 SECRETARIES APPRECIATION

The Board is supported in their work by a large number of members in various committees, panels and working groups (refer Section 4 of this report), which is gratefully acknowledged.

Members also represent the IGI with distinction on National and EU committees (GSI and GSNI consultative committees, National working group on Pyrite in engineering fill, PERC, EFG, etc). Members also contribute to the delivery of IGI training courses and workshops, and otherwise supporting the Board, this too is also acknowledged. All Board Members attend meetings in their own time and at their own expense and indeed give their time freely to the IGI.

It is worth noting that the efforts of the Catherine Buckley and the IGI office administrator Susan Pyne have resulted in a very positive response with 100% of CPD and subscriptions received again for 2016.



On behalf of IGI, I would like to gratefully acknowledge the support of Arup and GSI in providing the Board meeting venues during the past year.

The IGI membership has continued to grow and while the IGI has been without administrative support since Susan's retirement earlier this year, the efforts of the IGI Board and in particular Morgan Burke and the Validation Committee must be acknowledged. The Validation Committee continued to ensure that applications are reviewed and validation interviews held in a timely manner.

My role as Honorary Secretary was greatly assisted through the efforts of the IGI office staff Susan and Ethel who both retired from IGI at the end of January 2017 and their longstanding contribution to the IGI as a professional organisation will be missed and is greatly appreciated by the Board and IGI Membership. I would like to wish both Ethel and Susan the very best for the future.

**EurGeol Claire Clifford PGeo**

**Honorary Secretary, May 2017**

### **3 HON. TREASURER'S REPORT**

A copy of the 2015 (final) and 2016 (draft) Financial Statements for the IGI as prepared by Kieran Ryan & Co, Chartered Accountants and Registered Auditors, is attached to the Annual Report. This is the seventh year Kieran Ryan & Co. has audited the Institute's accounts and prepared its financial statement. The financial statement reflects the Institute's financial position in the years 2015 and 2016.

The Institute realised a surplus in 2016 of €19,271.35 in 2016.

Total income for 2016 was €70,706.82 and total expenditure was €51,435.47 for the year.

The income prediction for 2016 was significantly higher due to the incoming H2020 funds from the EFG. While part of this funding needs to be spent on H2020 activities, overall the Board have additional funds available this year. To date, some of this funding has been spent on improving the IGI website and increased funding towards courses run.

**EurGeol Catherine Buckley PGeo**

**Hon. Treasurer, May 2016**

## 4. IGI COMMITTEE / WORKING GROUP REPORTS

*Volunteers for each of the following IGI Committees are always welcome, so if you would like to participate, please contact the Honorary Secretary, or any Board Member.*

### 4.1 VALIDATION COMMITTEE

The Validation Committee held four validation interview sessions since the last AGM held in June 2016. A total of eleven applicants were approved for professional membership during the period.

On the 22<sup>nd</sup> June 2016 a panel comprising Morgan Burke, Gerry Stanley and Dave Blaney interviewed two candidates:

- i) **Mohammednur Desissa Ture**
- ii) **Karl Roa**

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

On the 7<sup>th</sup> February 2017 a panel comprising Morgan Burke, Gerry Stanley and Eibhlin Doyle interviewed three candidates:

- i) **Eoin McGrath**
- ii) **Ian Blakley**
- iii) **Martha Buckwalter-Davis**

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

On the 16<sup>th</sup> February 2017 a panel comprising Morgan Burke, Cecil Shine and Kevin Cleary interviewed three candidates:

- i) **Eoin Fitzpatrick**
- ii) **John Dillon**
- iii) **Orla O'Connell**

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

On the 23<sup>rd</sup> February 2017 a panel comprising Morgan Burke, Sean Finlay and Dave Blaney interviewed three candidates:

- i) **Thomas Riegler**
- ii) **Shane Lavery**
- iii) **Ciara Bannon**

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

Six applicants for the MIT category were approved during the past year:

- i) **Dafydd O'Shea**
- ii) **Ahmed Thamer Ahmed**
- iii) **Kate Corcoran**
- iv) **Cormac Lavelle**

- v) **Nuria Manzanas**
- vi) **Christopher Dimet**

The mix and competence of candidates interviewed and assessed in the past year has demonstrated the varied disciplines in the IGI, extending from mineral geology, to hydrogeology, to environmental geology. The elected candidates are a welcome addition to the collective experience of IGI members.

**EurGeol Morgan Burke PGeo.**  
***Chair of the Validation Committee***

## 4.2 CONTINUING PROFESSIONAL DEVELOPMENT

The IGI's standing in the international geological community is very much dependant on the rigor and completeness of our Continuing Professional Development process. Our CPD process has been closely scrutinised by all the professional bodies abroad with which we have mutual recognition agreements and was found to be sound, most recently through our successfully negotiated MRA with Geoscientists Canada. Mutual recognition is one criterion by which we may judge our process; another criterion is how our members find it.

In 2015 & 2016 we achieved 100% CPD returns from PGeos. This was only successful through the threat of de-listing individuals by a specific date.

For 2017 we are having a delay in processing the CPD returns due to the retirement of our administrator Susan, who was an invaluable help in previous years. A temporary replacement has been recruited to process these in the interim until a new Executive Secretary has been appointed. We will be aiming to achieve 100% CPD returns again in 2017 once all those received to date have been processed.

The purpose of threatening delisting, is to prompt those who have forgotten. It should be noted that some people genuinely cannot return CPD forms or pay fees due to extenuating circumstances and these cases are dealt with individually. However, the office is not made aware of these cases until the individual emails are sent.

The CPD audit is carried out each year on a random 10-25% of the returns is an absolutely necessary part of the process and is a requirement by other bodies for mutual recognition. A panel has been developed to spread the load of undertaking CPD audits and this is composed of members from different specialties. In the main it appears the CPD returns are being completed correctly and fairly.

Thank you for your collaboration in this matter of CPD; it fundamentally underpins the integrity of the **PGeo** title conferred on professional Members of the IGI.

**EurGeol Catherine Buckley PGeo**

### 4.3 CONTINUING PROFESSIONAL DEVELOPMENT LECTURES & COURSES

As part of the IGI's commitment to Continuing Professional Development, a number of technical talks and courses were held in 2016/2017, which are summarised below. Further workshops and courses, to address the CPD needs of Members, are planned for the latter half of 2017. The membership are invited to make a suggestion for the type of course they would be interested in.

#### **Forensic Geology Seminar – 2 June 2016**

##### **The Application of Geology to Crime, Police and Law Enforcement (keynote lecture)**

This evening seminar jointly hosted by IGI and GSI was very well attended and positive feedback was received on this engaging and sometimes gruesome seminar.

The programme was as follows:

- 17:00-17:10: Introduction Marie Fleming, Institute of Geologists of Ireland & Arup
- 17:10-17:40: Forensic Geology in Ireland Dr. Alastair Ruffell, Queens University Belfast
- 17:40-18:10: Search and Trace Evidence Prof. Lorna Dawson, James Hutton Institute
- 18:10-18:40: QEMSCAN Prof. Duncan Pirrie, Helford Geoscience LLP
- 18:40-19:10: GIS in Forensic Geology Dr. Jennifer McKinley, Queens University Belfast
- 19:10-20:00: Keynote Lecture: Forensic Geology: The Applications of Geology to Crime, Police and Law Enforcement Dr. Laurance Donnelly, International Union of Geological Sciences, Initiative on Forensic Geology & Arup
- 20:00-20:10 Closing Remarks Koen Verbruggen, Geological Survey of Ireland



**Photo: L-R Marie Fleming, Jennifer McKinley, Lorna Dawson, Laurance Donnelly, Duncan Pirrie, Alastair Ruffell and Koen Verbruggen**

The keynote lecture was given by Dr Laurance Donnelly Forensic Geologist & Police Ground Search Adviser, Chair, International Union of Geological Sciences, Initiative on Forensic Geology (IUGS-IFG) & Arup, Manchester, UK. Dr Donnelly specializes in mineral exploration, mining geology, engineering geology, mining hazards and geohazards. In the mid 1990s techniques, not conventionally used by the Police, to search for a shallow, unmarked,

homicide grave in a remote location. For the past 22 years he has worked on numerous high-profile cases advising the Police as a forensic geologist.

In 2008 he began working in collaboration with 'The Body Farm' in Knoxville, Tennessee, USA, to better understand the influences of geology on human decomposition. In 2010, the International Union of Geological Sciences invited him to establish an International Work Group on Forensic Geology, which has evolved into the IUGS Initiative on Forensic Geology (IUGS-IFG), where he serves as the Chair. In this role he has organised several knowledge transfer, capacity building and training events for police and federal agencies around the world. He is registered as and Expert Adviser to the UK Police and National Crime Agency (NCA). He has approximately 230 publications, including peer reviewed papers, conference papers, magazine articles, public reports, and one book. Globally he continues to promote and pioneer the applications of geology to ground searches for burials. He is the recipient of awards for outstanding contributions to applied and forensic geology from the Institution of Mining & Metallurgy, Geological Society of London, Geological Society of America and Russian Federal Centre of Forensic Science at the Ministry of Justice of Russia, in Moscow.

### **Engaging Geoscientists in Global Development – 9 March 2017**

**Interdisciplinary work across three continents. Joel C. Gill and Nic Bilham**



**Photo: (L-R) Nic Bilham and Joel Gill**

This presentation integrated perspectives from Geology for Global Development (a UK-based development charity), the British Geological Survey, and the Geological Society of London to explore the importance and social responsibility of geoscientists to engage in such work.

During 2015 the international community agreed three important agendas for change. Each framework relates to the intersection of environmental processes with human activities and behaviours, addressing significant challenges affecting society.

The frameworks are (i) the UN Sustainable Development Goals (SDGs), (ii) the Sendai Framework for Disaster Risk Reduction 2015-2030, and (iii) the Paris Climate Change agreement (COP21). The SDGs for example, include 17 goals aiming to end extreme poverty, fight inequality and ensure environmental sustainability. Specific goals relate to



clean water and sanitation, clean and affordable energy, the development of resilient infrastructure, and the need for climate action.

The talk gave a synthesis of the role of geoscience in successfully achieving these global development frameworks, and consider the ethical and social understanding that underpins effective engagement by geoscientists in the science policy – practice interface. Examples were shared from water projects in rural Tanzania, natural hazards research in Guatemala, and sustainable development initiatives in the Indian Himalaya.

**Nic Bilham and Joel Gill**

### **Geotechnical Soil & Rock Logging Course – 21 & 22 March 2017**

#### **Professor David Norbury**

This two day course was given by Professor David Norbury engineering geologist. David is a leading expert in ground investigation and is the author of Eurocode 7 – BS5930 which is the standard for site investigation in Ireland and UK.



**Photo: Professor David Norbury**



The aim of the course was to impart on our younger geotechnical engineers/engineering geologists, and those who may not have had formal logging training the process of logging and describing soil and rock in accordance with Eurocode 7 – BS 5930 so that they understand the standardisation of this process.

Thanks to IGSL for providing rock core and soil samples for the course.

The course was oversubscribed and those who did get to attend reported that it was very informative and enjoyable. We hope to run the course again before the end of 2017.

### **Engineering Geology – some triumphs and disaster; IGI/GIS Lecture, 21 March 2017**

#### **IGI/GS Evening Lecture: Engineering Geology – some triumphs and disasters Speaker: Professor David Norbury (2016 Glossop Lecturer)**

Professor David Norbury is an engineering geologist with over 40 years' experience of investigating the ground, compiling ground models and communicating within multi-disciplinary project teams. These skills have been deployed in project investigations, tunnelling, groundworks and project management in projects across Europe, Africa and the Far East. His reputation is in the provision of sound and practical advice, and in keeping projects moving forwards.

### **Control the Drainage: the Gospel Accorded to Sinkholes – 28 March 2017**

#### **2015 Glossop Lecture repeat, Joint IGI and Geotechnical Society Lecture**

Karst is a landscape that is distinguished by underground drainage normally formed on limestone or gypsum. Its impact on engineering geology is the distinctive suite of karst geohazards, which are largely related to the holes in the ground of varying size and unpredictable nature. The most widespread and frequent geohazard is the development of new sinkholes by suffosion within the soil profile over a cavernous limestone. New suffosion sinkholes are nearly all formed by rainstorms, new drainage inputs or water table decline. Rock collapse developing new sinkholes represents a further geohazard. Most sinkholes in soil and most collapses on rock are induced, wholly or partially, by civil engineering activities, and are therefore largely avoidable if the gospel of drainage control is obeyed.

A video recording of the talk is available to view on YouTube at the following link: <https://www.youtube.com/watch?v=J1TcaTqcal>.

**EurGeol Cian O'Hora PGeo**

#### 4.4 Concrete Block Expert Panel

The emergence of significant external wall cracks in dwellings first began to emerge in the public domain towards the end of 2013. In Donegal, media and other reports suggested that the nature of the problem appeared to relate to the crumbling of the concrete blockwork in the external walls of the affected dwellings. This was giving rise to considerable personal upset and worry among the homeowners affected. At that time, it was reported that several hundred homes were suspected to be exhibiting structural distress in northeast Donegal. The presence of muscovite mica in abundant quantities in the aggregate constituent of the concrete blocks was suggested as being one of the main factors contributing to the deterioration of the concrete blocks. Similar problems also began to emerge in late 2013 among certain dwellings in the north and northwest of Mayo. In this instance, the presence of pyrite in the aggregate constituent of the concrete block was suggested as being one of the main factors contributing to the deterioration of the concrete blocks.



*Example of Exterior Cracking and Exposed Blockwork*

Over the course of 2014 and 2015, media reports continued to illustrate the scale of the problems emerging in the two counties, the progressive nature of the external wall cracking and the resultant structural distress in the affected properties. The problems in both counties were also raised at a political level by representatives from the Mayo Pyrite Group and the Mica Action Group acting on behalf of affected homeowners in Mayo and Donegal respectively.

Following a visit to number of affected homeowners in County Donegal in early 2015, Mr. Paudie Coffey, T.D., then Minister of State at the Department of the Environment, Community and Local Government, announced his intention to establish an Expert Panel to investigate the problems emerging in the concrete blockwork of certain dwellings in Donegal and Mayo in late November of that year. In light of the highly technical nature of the emerging problems in the two counties, a range of specific technical skillsets were considered to be essential to the membership of the Expert Panel.

In this context, it was proposed that the Expert Panel would comprise a chartered engineer with a particular expertise in building defects analysis, a geologist with an expertise in the practical assessment of geological resources, aggregates and their suitability for particular end-use applications, an expert on the current standards applicable in the manufacture of aggregates, concrete products, cements and masonry products and a chairperson with senior public sector experience and a strong technical background. The Department approached the Institute and requested the nomination of an appropriate professional geologist to serve on the Expert Panel.

The Terms of Reference for the Expert Panel as announced by the Minister of State were: -

- (i) to identify, insofar as it is possible, the numbers of private dwellings which appear to be affected by defects in the blockwork in the Counties of Donegal and Mayo;*
- (ii) to carry out a desktop study, which would include a consultation process with affected homeowners, public representatives, local authorities, product manufacturers, building professionals, testing laboratories, industry stakeholders and other relevant parties, to establish the nature of the problem in the affected dwellings;*
- (iii) to outline a range of technical options for remediation and the means by which those technical options could be applied by the affected homeowners in a manner that delivers cost effective and satisfactory outcomes for those homeowners; and*
- (iv) to submit a report to the Minister of State by 31 May 2016.*

The chairperson of the Expert Panel was announced in late January 2016; nominations to participate on the Expert Panel were sought thereafter from Engineers Ireland, the National Standards Authority of Ireland and from the Institute. The Expert Panel was formally announced in early April 2016 and held its inaugural meeting on 15 April 2016.

The full composition of the Expert Panel is: -

> Mr. Denis McCarthy, a civil engineer and former Director of Services and Acting County Manager with Waterford County Council. Chairperson of the Expert Panel;

> Mr. Noel Kane, BE, Dip Comp Eng, EurIng, CEng, FIEI, FStructE, MIEAust, MACI, RconEI, member of the National Standards Authority of Ireland's Concrete and Eurocodes Consultative Committees and the chair of their Masonry Panel and Eurocodes Masonry Subcommittee;

> Mr. Frank Lee, BE, CEng, FIEI, FConsEI nominated by the Association of Consulting Engineers of Ireland; and

> Mr. Dave Blaney, P.Geo, EurGeol, B.Sc., M.Sc. and Board member of the Institute of Geologists of Ireland.

Technical and administrative support was provided to the Expert Panel by officials from the Department of Housing, Planning, Community and Local Government (formerly the Department of the Environment, Community and Local Government).

Over the course of 2016, the Expert Panel carried out their research into the problems in both counties and met with a broad range of key stakeholders, including affected homeowners, public representatives, local authority officials as well as various industry bodies, academics and other interested parties. It is anticipated that the Panel's report will be finalised in early 2017 and will be submitted to the Minister of State for his consideration.

#### **4.5 ETHICS & DISCIPLINARY COMMITTEES 2014-2015**

The Board is happy to report that the Ethics Committee did not receive any complaints, including any that may require a disciplinary response during the year. Neither the Ethics nor Disciplinary Committees met during the year.

The Members of the Ethics Committee are EurGeol Dr. Jonathan Derham PGeo (Chair), EurGeol Dr. John Ashton PGeo and EurGeol Dr. Matthew Parkes PGeo.

The Members of the Disciplinary Committee are EurGeol Dr. Eibhlín Doyle PGeo (Chair), EurGeol Dr. Deirdre Lewis and PGeo EurGeol Nick O'Neill PGeo.

The current Members of both the Ethics and Disciplinary Committees have kindly agreed to serve for another year.

## **4.6 COMMUNICATIONS**

### **Website**

The redevelopment IGI website was maintained by Eamonn Kelly, SLR Consulting Ltd and assisted by Peter Heath, GSI. The new platform gives a modern and user-friendly look and feel and has been well received by all.

The website easily shows all upcoming events, and provides easy links to latest news, the IGI linkedin pages and twitter profile

### **LinkedIn group**

The IGI's LinkedIn Group continues to be a useful forum for promoting events and news. Although this information is also disseminated on an email list, LinkedIn facilitates discussions and comments on posts for members within the group. Group administrators are Peter Glanville and Mairead Glennon.

### **Twitter**

The IGI Twitter account is becoming increasingly popular with new followers., follow us @IGI\_PGeo . A social media presence has become an essential aspect of any outward-facing communications strategy, providing a forum for the public dissemination of IGI news in an informal way. From a year ago, the number of followers of @IGI\_PGeo has increased from 133 to 434. The account provides fast news, content and links to geoscience in Ireland. The IGI twitter account is managed by Marie Fleming.

### **Engagement with third level institutions**

The board recognizes the need for dedicated activities to engage with third level institutions in order to attract more student and early-career stage members. The IGI was represented by Marie Fleming and Cian O'Hora at the Irish Geological Research Meeting in Trinity College Dublin in March 2017, reaching students from third level institutions across the island. Future initiatives will aim to work directly with university geology departments to promote the benefits of IGI membership to students.

The IGI also provided support and advice to UCC in establishing a new taught MSc course in Applied Environmental Geology.

### **Jim Hodgson PGeo**

#### **4.7 PROFESSIONAL INDEMNITY INSURANCE SCHEME FOR MEMBERS and IGN**

##### **Professional Indemnity insurance scheme for members**

The IGI continues to work in collaboration with Thompson Insurances brokers to provide a ***Professional Indemnity (PI) insurance scheme*** for the IGI Members.

The IGI's Professional Indemnity insurance scheme for self-employed geologists, administrated by Thompson Insurance, currently insures a number of IGI members. Together with Thompson the IGI developed a proposal form suited to the activities undertaken by geologists in Ireland and has allowed for a more comprehensive understanding of the associated risks to be insured and often cheaper premiums than offered by other brokers. For enquiries please contact [shane.hennelly@nti.ie](mailto:shane.hennelly@nti.ie), quoting your IGI membership number.

##### **Public liability insurance scheme for Irish Geoscience Network affiliates**

In 2016-2017 the IGI established a Public Liability insurance scheme with Thompson Insurance for Irish Geoscience Network affiliate organisations again incorporated three organisations (IAH Irish Group, IQUA and Geothermal Association of Ireland). The premium increased from previous years (as did all insurance costs) but still works out at a very cost-effective €3.00 per member, representing a considerable saving for these organisations over premiums currently available on the market. IGN affiliate organisations are invited to express their interest in joining for 2017/2018. Policy renewal comes up in October each year but affiliate organisations may join at any time, with the premium calculated on a pro-rata basis. Enquiries to [mairead.glennon@gsi.ie](mailto:mairead.glennon@gsi.ie).

**EurGeol Mairead Glennon PGeo / Jim Hodgson PGeo**

## **4.8 THE IGI MENTORING SCHEME**

### **IGI Opens Mentoring Scheme**

In May 2016 the IGI launched a free, voluntary mentorship scheme for members by holding a half-day seminar on Mentoring and Career Planning for Geoscientists in GSI. Facilitated by John and Trudy Arthurs, the seminar introduced thirteen delegates from across the IGI membership to the principles and practice of mentoring.

Since the introductory seminar, twelve of the delegates put themselves forward as mentors and this has resulted in a number of mentor pairings. The scheme itself is somewhat autonomous with minimal administrative oversight from the IGI. Mentors and mentees are encouraged to self-identify, establish their own pairings, and conduct their mentoring activities confidentially. The IGI holds a list of mentors, which are provided by email to prospective mentees on a request basis.

There is no formal reporting requirement for the Mentorship Scheme, however, participation in scheme is eligible for a maximum of 10 hours CPD per annum. 2016 was the first year in which members were invited to report on their mentoring activities – a review of CPD forms would be beneficial in order to establish some metrics on mentorship participation. The next step for the scheme is to expand participation by re-running the workshop during the winter months. Several enquiries received in 2016 indicated that many prospective delegates missed the first course due to field work commitments during the summer months.

**Mairead Glennon PGeo**



## 5 REPRESENTATIONS: DELEGATE REPORTS

### 5.1 EUROPEAN FEDERATION OF GEOLOGISTS

The European Federation of Geologists is a non-governmental organisation that was established in 1980 and includes today 25 national association members and two associated members American Institute of Professional Geologists (AIPG) and Geoscientists Canada. EFG is a professional organisation whose main aims are to contribute to a safer and more sustainable use of the natural environment, to protect and inform the public and to promote a more responsible exploitation of natural resources. EFG's members are National Associations, NAs, whose principal objectives are based in similar aims. The guidelines to achieve these aims are the promotion of excellence in the application of geology and the creation of public awareness of the importance of geoscience for the society.

The IGI Delegates to the EFG for 2016/7 were Gerry Stanley and Claire Clifford. Marie Fleming (IGI) is chair of the EFG Registration Authority.

During 2016, the EFG continued to promote the professional mobility and status of geologists in the 25 member states across Europe, through the expanding use and recognition of the EurGeol title, involvement in EU funded projects, making representations to the EU Commission and liaison with other international geological bodies. National and international awareness of the profession is maintained through 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](http://www.eurogeologists.eu).

The EFG 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. Each member country has one vote at Council Meetings. The current EFG President is Vítor Correia from Portugal. The Council meets twice a year with a Winter Council meeting held in November/December in Brussels and a Summer Council member held in May/June in one of the member countries. The executive authority of the Council is enacted by the Board, which is appointed for a two year term and comprises a President, Vice-President, General Secretary, Treasurer and External Relations Officer. The Board meets four to six times per year, mostly in Brussels, with the day to day business of EFG maintained within the Board by email.

Three meetings of Council in 2016/7 were as follows:

#### **May 2016**

Claire Clifford attended the formal Summer Council meeting which was held in Lisbon on the 21/22<sup>nd</sup> May 2016. Marie Fleming also attended in her capacity with the Registration Authority. A workshop was organized for the days preceding the Council meeting titled **"The importance of geological knowledge for sustainable land use"** which included a fieldtrip. This workshop discussed the ways in which geological knowledge can contribute to the understanding and management of land use in order to provide a better decision-making and policy-planning framework.





The main focus of the meeting was on the EFG proposals for EU funded H2020 projects in the geosciences and the EFG involvement in the EU Qualifications Directive regarding the geosciences. Representation from NAs on working groups including the Qualifications Directive, internal regulations and an initiative to promote geology among young people.

### **November 2016**

Marie Fleming attended the informal Winter Council meeting in Brussels on the 21<sup>st</sup>/22<sup>nd</sup> November 2015.

The main focus of the meeting was on the EFG proposals for EU funded H2020 projects in the geosciences and the EFG involvement in the EU Qualifications Directive regarding the geosciences. Representation from NAs on working groups including the Qualifications Directive, internal regulations and an initiative to promote geology among young people.

### **May 2017**

At the time of preparing this report, Marie Fleming was preparing to attend the 2017 Summer Council meeting to be held in Santorina on the 20/21<sup>st</sup> May. The Summer Council meeting will be preceded by the first **EuroWorkshop** on geothermal energy.

EuroWorkshops are a new form of professional training that EFG proposes to European Geologist title holders and other geoscientists. This new type of training activity will intensify the professional exchange of ideas and the contacts between geologists from all over Europe and will also strengthen the European idea within the family of geoscientists. The EuroWorkshops will also provide applied training for students and young professionals, offering special conditions for them. This way, young geologists will become familiar with the vision and mission of EFG, while EuroGeologists will have the chance to upgrade their knowledge and experience since the workshop are CPD certified.

## **EU Funded Projects**

The IGI are currently involved as an EFG linked partner to the following H2020 projects:

### ***INTRAW - International cooperation on Raw Materials***

INTRAW project aims to map and develop new cooperation opportunities related to raw materials in Australia, Canada, Japan, South Africa and the United States, addressing:

- Research and innovation;
- Raw materials policies and strategies;
- Joint educational and skills programmes;
- Licensing and permitting procedures;
- Data reporting systems;
- Exploration, extraction, processing and recycling practices;
- Management and substitution of Critical Raw Materials.

The outcome of the mapping and knowledge transfer activities will be used as a baseline to set and launch the European Union's International Observatory for Raw Materials.

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### ***KINDRA - Knowledge Inventory for hydrogeology research***

The IGI, as the national member association of the European Federation of Geologists, participated in the pan-European KINDRA project. The KINDRA project is an EU-wide assessment of existing groundwater-related practical and scientific knowledge, based on a new Hydrogeological Research Classification System (HRC-SYS). This classification is supported by a web-service – the European Inventory of Groundwater Research (EIGR) – which acts as a knowledge repository as well as a tool to help identify relevant research topics, existing research trends and critical research challenges. The results are intended to be useful for producing synergies, implementing policies and optimising water management in Europe.

During the past year, the IGI has participated in the development of the EIGR, by providing information on the main institutions involved in groundwater research in Ireland and by submitting relevant information for the development of the meta-database that underpins the EIGR. The EIGR was launched at the end of April 2017, and is accessible free of charge through simple online registration. For further information, please refer to [www.kindraproject.eu](http://www.kindraproject.eu) or contact [info@igi.ie](mailto:info@igi.ie).

### ***UNEXMIN - Autonomous Underwater Explorer for Flooded Mines***

This new H2020 project will develop a novel robotic system for the autonomous exploration and mapping of Europe's flooded underground mines.

The Robotic Explorer (UX-1) will use non-invasive methods for autonomous 3D mine mapping for gathering valuable geological and mineralogical information. This will open new exploration scenarios so that strategic decisions on the re-opening of Europe's abandoned mines could be supported by actualised data that cannot be obtained by any other ways. The Multi-robot Platform will represent a new technology line that is made possible by recent developments in autonomy research that allows the development of a completely new class of mine explorer service robots, capable of operating without remote control. Such robots do not exist nowadays; UX-1 will be the first of its kind. Research challenges are related to miniaturisation and adaptation of deep sea robotic technology to this new application environment and to the interpretation of geoscientific data.

### ***CHPM - Combined Heat, Power and Metal extraction from ultra-deep ore bodies***

The CHPM2030 project (project number: 654100) aims to develop a novel, pilot level technology which combines geothermal resource development, minerals extraction and electro-metallurgy in a single interlinked process. In order to improve the economics of geothermal energy production the project will investigate possible technologies of manipulating metal-bearing geological formations with high geothermal potential at a depth of 3-4 km in a way that the co-production of energy and metals will be possible and may be optimised according to the market demands in the future. Led by the University of Miskolc, the project will be implemented in the cooperation of 12 partners from 10 European countries.

**EurGeol Marie Fleming PGeo**

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## **5.2 GSI CONSULTATIVE COMMITTEE**

The GSI Consultative Committee normally meets on a six-monthly basis. However, there were no GSI Consultative Committee Meetings during the year.

## **5.3 GSNI CONSULTATIVE COMMITTEE**

There were no meetings of the GSNI Consultative Committee between May 2015 and May 2016. Dr. John Kelly is the IGI's representative on the Committee and will be in a position to represent the Institute again in the forthcoming year.

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#### 5.4 IRISH GEOSCIENCE NETWORK [MF]

The Irish Geoscience Network (IGN), convened by the IGI, was formed in early 2012 to provide a forum for communication and sharing of ideas and resources for all bodies, organizations and departments involved in the Geosciences. The body has now grown to c. 32 such bodies and meets once a year.

The bodies invited to the Network include:

- Belfast Geologists (BG);
- Dublin Institute for Advanced Studies (DIAS);
- Earth Science Ireland (ESI);
- Exploration and Mining Division (EMD);
- Geophysical Association of Ireland (GAI-GP);
- Geothermal Association of Ireland (GAI-GT);
- Geological Survey of Ireland (GSI);
- Geotechnical Society of Ireland (GSI, a Society of Engineers Ireland);
- Geological Society London (GeoSoc);
- Geological Survey of Northern Ireland (GSNI);
- Geological Heritage; Irish Offshore Operators' Association (IOOA);
- Geoscience Ireland
- Irish Association for Economic Geology (IAEG);
- International Association for Hydrogeology – Irish Group (IAH);
- Irish Centre for Research in Applied Geosciences (iCRAG)
- Irish Geological Association (IGA);
- Institute of Geologists of Ireland (IGI);
- Irish Geomorphology Group (IGGy);
- Irish Mining and Quarrying Society (IMQS);
- Irish Quaternary Association (IQUA);
- Mining Heritage Trust of Ireland (MHTI);
- National Museum of Ireland (NMI);
- National University of Ireland, Galway (NUIG);
- National University of Ireland, Maynooth (NUIM);
- Open University Geological Society (OUGS);
- Petroleum Affairs Division (PAD);
- Raw MatTERS & IFOSTER;
- Royal Irish Academy - Geosciences and Geographical Sciences Committee (RIA);
- Society of Petroleum Engineers – Irish Branch (SPE)
- Soil Science Society of Ireland (SSSI);
- Speleological Union of Ireland (SUI);
- Trinity College Dublin (TCD);
- University College, Cork (UCC);
- University College, Dublin (UCD);
- University of Limerick (UL); and
- Ulster Museum (UM).
- 

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This year's IGN meeting was held in Merrion Square on the 15<sup>th</sup> February 2017 with the forum discussing matters relating to insurance, research, education, the 2019 INQUA congress ([www.iqua.ie/INQUA\\_2019](http://www.iqua.ie/INQUA_2019)), and various other matters and activities.

After successfully coming together to organize the Geo-Gathering in 2013 and the Tynagh Mine 50<sup>th</sup> Anniversary which was held in January 2015, Gerry Stanley proposed the IGN form a sub-committee for Dr. Michael Philcox's then forthcoming 80<sup>th</sup> birthday and contribution to Irish Geosciences.

This event was successfully held at the Royal Irish Academy on the 21st October 2016 with a number of speakers outlining the contributions of Dr. Michael Philcox to the geosciences in Ireland, over a career spanning six decades (and counting). This was then followed by a celebratory dinner. A commemorative two volume publication of Dr. Philcox's work which included Volume 1: Peer Reviewed Papers and Volume 2: Guide Books/Workshops/Non Peer Reviewed/Abstracts was compiled and edited under the direction of Gareth LI Jones for the occasion.



Photo: (L-R) Matt Mawson, Pete Coxon, Marie Fleming, Michael Philcox, Eibhlin Doyle, Gareth LI Jones, Gerry Stanley (Chairperson of the Organising Committee) & Betthina Stefani

A suggestion was made at the 2016 IGN meeting by Koen Verbruggen, Director of the Geological Survey of Ireland, for the GSI to aid the IGN in the preparation of an Annual Update on Geoscience Activities. The aim of the document is to collate an annual of update submissions from each invited organization. Along with providing a useful document, this also

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generated more time at the IGN meeting to focus on cross-cutting issues such as outreach, public perception, policy issues etc. This publication was compiled and edited by the GSI and is available for download at [http://igi.ie/assets/uploads/2016/01/IGN\\_OrganisationReports.pdf](http://igi.ie/assets/uploads/2016/01/IGN_OrganisationReports.pdf).

The Geo- Calendar of Events [http://www.igi.ie/events\\_calendar.htm](http://www.igi.ie/events_calendar.htm) is available to assist all members of the Network to plan and where possible to avoid conflicting dates in their events. Along with the calendar, a monthly update of geo-events is circulated to the IGN membership for their own dissemination, as such a much further reaching audience can be reached outside of respective organisations.

**EurGeol Marie Fleming PGeo**

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## 6 INTERNATIONAL AGREEMENTS

### 6.1 Mutual Recognition Agreements (MRAs)

The IGI now has six MRAs with the following organisations with their respective country in parentheses:

- i) Australian Institute of Mining and Metallurgy – AusIMM (Australia).
- ii) Geoscientists Canada – GC (Canada).
- iii) European Association of Geoscientists and Engineers – EAGE (International).
- iv) Southern Africa Institute of Mining and Metallurgy – SAIMM and the Geological Society of South Africa – GSSA jointly sponsoring the SAMREC and SAMVAL Committee – SSC (South Africa).
- v) Geological Society of London – GeolSoc (United Kingdom).
- vi) American Institute of Professional Geologists – AIPG (USA).

The importance of maintaining these MRAs, based on continuing professional development (CPD) and ethically good professional practice cannot be overstated, given the international nature of geological practice and the mobility of IGI's membership. During the year our efforts were thanked by several Irish people now working in Canada who have been able to join Geoscientists Canada through the fast-track mechanism afforded by the MoU with GC.





## 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 6.00 p.m. Wednesday 7<sup>th</sup> June 2017 at the IGI Offices, No. 63 Merrion Square for the following purposes:**

- i) To receive and consider the Directors' Reports.
- ii) To receive and consider the Audited Accounts for year ended December 31<sup>st</sup> 2016.
- iii) To elect Directors.
- iv) To transact any other ordinary business of the Annual General Meeting.

By Order of the Board

Claire Clifford Honorary Secretary

Dated 1<sup>st</sup> of May, 2017

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## 8. NOMINATIONS FOR DIRECTORS

The Nominations Committee, under the Chair of Gerry Stanley (immediate Past-President), has presented the following list of candidates to stand for election at the forthcoming Annual General Meeting on 7<sup>th</sup> June 2017.

### **Executive Directors:**

<b>President:</b>	EurGeol Catherine Buckley PGeo	(1 <sup>st</sup> year of 2 year term)
<b>Vice-President:</b>	EurGeol Dr. Henning Moe PGeo	(1 <sup>st</sup> year of 2 year term)
<b>Treasurer:</b>	EurGeol Cian O'Hora PGeo	(1 <sup>st</sup> year of 2 year term)
<b>Secretary:</b>	EurGeol Claire Clifford PGeo	(2 <sup>nd</sup> year of 2 year term)

### **Non-Executive Directors:**

Mairead Glennon PGeo	(5 <sup>th</sup> Year as a Board Member)
EurGeol Dave Blaney PGeo	(3 <sup>rd</sup> Year as a Board Member)
EurGeol Jon Hunt PGeo	(1 <sup>st</sup> Year as a Board Member)
EurGeol Bill Sheppard PGeo	(1 <sup>st</sup> Year as a Board Member)
EurGeol Ed Slowey PGeo	(1 <sup>st</sup> Year as a Board Member)
EurGeol Eoin Wyse PGeo	(1 <sup>st</sup> Year as a Board Member)

### ***NOMINATIONS COMMITTEE (Comprising Past Presidents)***

EurGeol Gerry Stanley PGeo (Chair)  
EurGeol Dr. Deirdre Lewis PGeo  
EurGeol Dr. John Kelly PGeo  
EurGeol Kevin Cullen PGeo  
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 Secretary by the deadline of Monday 9<sup>th</sup> May 2017.

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## 9. IGI CORPORATE STRUCTURE

<b>IGI OFFICE</b>	63 Merrion Square Dublin 2
<b>WEBSITE</b>	<a href="http://www.igi.ie">www.igi.ie</a>
<b>ADMINISTRATIVE</b>	Ms. Susan Pyne ( <a href="mailto:admin@igi.ie">admin@igi.ie</a> ) (now retired)
<b>ACCOUNTS</b>	Ms. Ethel Stringer ( <a href="#">now retired</a> )
<b>WEBMASTER</b>	Mr. Eamonn Kelly <a href="mailto:ekelly@slrconsulting.com">ekelly@slrconsulting.com</a>
<b>AUDITORS</b>	Kieran Ryan & Co. Chartered Accountants and Registered Auditors 20 Upper Mount Street, Dublin 2
<b>BANKERS</b>	Bank of Ireland, College Green, Dublin 2
<b>IGI REGISTERED OFFICE</b>	6 Northbrook Road, Dublin 6
<b>COMPANY NUMBER</b>	31440
<b>CHARITY NUMBER</b>	CHY 13580
<b>REGISTERED CHARITY NUMBER</b>	20042721

### IGI Board Members (2016-2017: Outgoing)

#### Executive Directors

<b>President:</b>	EurGeol Marie Fleming PGeo
<b>Vice President:</b>	Dr. Jim Hogson PGeo
<b>Secretary:</b>	EurGeol Claire Clifford PGeo
<b>Treasurer:</b>	EurGeol Catherine Buckley PGeo

#### Non-Executive Directors:

PGeo EurGeol Henning Moe,  
PGeo EurGeol Vaughn Williams  
PGeo EurGeol Mairead Glennon  
PGeo EurGeol Dave Blaney  
PGeo EurGeol Dr. Billy O'Keefe  
PGeo EurGeol Cian O'Hora PGeo

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### **EFG National Licensed Body**

The IGI is licensed by the European Federation of Geologists to award the professional title of European Geologist (EurGeol). The IGI's NLB Licence was renewed in 2016 for 5 years.

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### **Standing Committees (2016-2017)**

#### **Ethics Committee**

EurGeol Dr. Jonathan Derham, PGeo (Chair)

EurGeol Dr. John Ashton, PGeo

EurGeol Dr. Matthew Parkes, PGeo

#### **Disciplinary Committee**

EurGeol Dr. Eibhlín Doyle PGeo (Chair)

EurGeol Dr. Deirdre Lewis PGeo

EurGeol Nick O'Neill, PGeo

#### **Validation Committee**

EurGeol Morgan Burke PGeo (Chair)

EurGeol Mark Conroy PGeo

EurGeol David Blaney PGeo

EurGeol Eibhlín Doyle PGeo

EurGeol Sean Finlay PGeo

EurGeol Gerry Stanley PGeo

#### **CPD Audit Committee**

EurGeol Catherine Buckley PGeo (Chair)

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## **IGI Representation on Geoscience Bodies**

### **Organisation**

European Federation of Geologists

GSI Consultative Committee

GSNI Consultative Committee

### **IGI Representative**

EurGeol Catherine Buckley PGeo and EurGeol  
Claire Clifford PGeo

EurGeol Marie Fleming PGeo

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](http://www.iaeg.org)
- The Geophysical Association of Ireland [www.gai.ie](http://www.gai.ie)
- The International Association of Hydrogeologists (Irish Group) [www.iahireland.org](http://www.iahireland.org)
- The Irish Mining and Quarrying Society [www.imqs.ie](http://www.imqs.ie)
- The Geotechnical Society of the Institution of Engineers of Ireland [www.iei.ie](http://www.iei.ie)

## **Affiliated Bodies**

- The Geothermal Association of Ireland [www.geothermalassociation.ie](http://www.geothermalassociation.ie)

## **Bodies with Reciprocal Links and/or Co-Operation Agreements**

- American Institute of Professional Geologists
- Australian Institute of Mining & Metallurgy (JORC Committee)
- Geological Society of London
- Geoscientists Canada
- Geological Society of South Africa.
- South African Institute of Mining & Metallurgy (SAMREC Committee)
- European Association of Geoscientists and Engineers

## **Bodies Recognising PGeo (or mutually recognised equivalent)**

### **Ireland:**

- Exploration and Mining Division, DCMNR - required for prospecting licence work reports
- Environmental Protection Agency - preferred for professional work and reports;

Company number 314400. Directors: Marie Fleming, James Hodgson, Claire Clifford, Catherine Buckley



*Member of the  
European Federation  
of Geologists*

**The Institute of Geologists of Ireland**

63 Merrion Square, Dublin 2, Ireland  
Tel: +353 1 662 4914 e-mail: [info@igi.ie](mailto:info@igi.ie) web: [www.igi.ie](http://www.igi.ie)



obligatory for hydrogeological assessment of historic landfill sites

- Department of Education and Skills - preferred for professional work and reports
- An Bord Pleanála preferred for professional work and reports
- Local Authorities - preferred for professional work and reports; obligatory for hydrogeological assessment of historic landfill sites

Company number 314400. Directors: Marie Fleming, James Hodgson, Claire Clifford, Catherine Buckley



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## **Stock Exchanges**

Ireland, Dublin

Stock Exchange UK,

London Stock Exchange

Australian Stock Exchange

Canadian Securities Administrators

South Africa, JSE Securities Exchange

Company number 314400. Directors: Marie Fleming, James Hodgson, Claire Clifford, Catherine Buckley



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## 10. AUDITOR'S REPORT FOR 2016

Company number 314400. Directors: Marie Fleming, James Hodgson, Claire Clifford, Catherine Buckley



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**Company Number: 314400**

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**

**DIRECTORS' REPORT AND FINANCIAL STATEMENTS**

**FOR THE YEAR ENDED 31 DECEMBER 2016**

DRAFT

**Kieran Ryan & Co.  
Chartered Accountants and Statutory Audit Firm  
20 Upper Mount Street  
Dublin 2**

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)  
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**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)  
DIRECTORS AND OTHER INFORMATION**

<b>Directors</b>	Gerard Stanley (Resigned 10 March 2016) Marie Fleming Peter Glanville James Hodgson Catherine Buckley (Appointed 10 March 2016)
<b>Company Secretary</b>	Peter Glanville
<b>Company Number</b>	314400
<b>Charity Number</b>	13580
<b>Registered Office</b>	20 Upper Mount Street Dublin 2
<b>Business Address</b>	63 Merrion Square Dublin 2
<b>Auditors</b>	Kieran Ryan & Co. Chartered Accountants and Statutory Audit Firm 20 Upper Mount Street Dublin 2
<b>Bankers</b>	Bank of Ireland College Green Dublin 2
<b>Solicitors</b>	Hayes Solicitors Lavery House Earlsfort Terrace Dublin 2

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)  
DIRECTORS' REPORT  
FOR THE YEAR ENDED 31 DECEMBER 2016**

The directors present their report and the audited financial statements for the year ended 31 December 2016.

**Principal Activity**

The principal activity of the company is to promote and advance the science of geology and its professional application in all disciplines and to facilitate exchange of information and ideas in relation thereto.

The Company is limited by guarantee not having a share capital.

**Principal Risks and Uncertainties**

The principal risks and uncertainties facing the company is that of non payment of membership fees.

**Financial Results**

The surplus for the year amounted to €20,414 (2015 - €1,475).

At the end of the year the company has assets of €72,423 (2015 - €54,734) and liabilities of €4,874 (2015 - €7,599). The net assets of the company have increased by €20,414.

**Directors and Secretary**

The directors who served throughout the year, except as noted, were as follows:

Gerard Stanley (Resigned 10 March 2016)  
Marie Fleming  
Peter Glanville  
James Hodgson  
Catherine Buckley (Appointed 10 March 2016)

The secretary who served throughout the year was Peter Glanville.

There were no changes in shareholdings between 31 December 2016 and the date of signing the financial statements.

**Future Developments**

The directors do not envisage any substantial changes to the nature of the company.

**Post Balance Sheet Events**

There have been no important events since the year end.

**Auditors**

The auditors, Kieran Ryan & Co., Chartered Accountants and Statutory Audit Firm have indicated their willingness to continue in office in accordance with the provisions of Section 383(2) of the Companies Act, 2014.

**Statement on Relevant Audit Information**

There is no relevant audit information of which the statutory auditors are unaware. The directors have taken all steps that they ought to have taken to make themselves aware of any relevant audit information and they have established that the statutory auditors are aware of that information.

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)  
DIRECTORS' REPORT  
FOR THE YEAR ENDED 31 DECEMBER 2016**

**Accounting Records**

To ensure that adequate accounting records are kept in accordance with Sections 281 to 285 of the Companies Act 2014, the directors have employed appropriately qualified accounting personnel and have maintained appropriate computerised accounting systems. The accounting records are located at the company's office at 63 Merrion Square, Dublin 2.

**Signed on behalf of the board**

\_\_\_\_\_  
Catherine Buckley  
**Director**

\_\_\_\_\_  
Marie Fleming  
**Director**

**Date:** \_\_\_\_\_

DRAFT

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)  
DIRECTORS' RESPONSIBILITIES STATEMENT  
FOR THE YEAR ENDED 31 DECEMBER 2016**

The directors are responsible for preparing the Directors' Report and the financial statements in accordance with applicable Irish law and regulations.

Irish company law requires the directors to prepare financial statements for each financial year. Under the law the directors have elected to prepare the financial statements in accordance with the Companies Act 2014 and FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" issued by the Financial Reporting Council and promulgated by the Institute of Chartered Accountants in Ireland. Under company law, the directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the assets, liabilities and financial position of the company as at the financial year end date and of the surplus or deficit of the company for the financial year and otherwise comply with the Companies Act 2014.

In preparing these financial statements, the directors are required to:

- select suitable accounting policies for the company financial statements and then apply them consistently;
- make judgements and estimates that are reasonable and prudent;
- state whether the financial statements have been prepared in accordance with applicable accounting standards, identify those standards, and note the effect and the reasons for any material departure from those standards; and
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the company will continue in business.

The directors are responsible for ensuring that the company keeps or causes to be kept adequate accounting records which correctly explain and record the transactions of the company, enable at any time the assets, liabilities, financial position and surplus or deficit of the company to be determined with reasonable accuracy and enable them to ensure that the financial statements and directors' report comply with the Companies Act 2014 and enable the financial statements to be audited. They are also responsible for safeguarding the assets of the company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

**Signed on behalf of the board**

\_\_\_\_\_  
Catherine Buckley  
**Director**

\_\_\_\_\_  
Marie Fleming  
**Director**

**Date:** \_\_\_\_\_



**INDEPENDENT AUDITOR'S REPORT  
TO THE MEMBERS OF INSTITUTE OF GEOLOGISTS OF IRELAND  
COMPANY LIMITED BY GUARANTEE**

**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**

We have audited the financial statements of Institute of Geologists of Ireland Company Limited By Guarantee for the year ended 31 December 2016 which comprise the Income Statement, the Balance Sheet, the Statement of Changes in Equity, the Statement of Cash Flows, the Accounting Policies and the related notes. The relevant financial reporting framework that has been applied in their preparation is the Companies Act 2014 and FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" issued by the Financial Reporting Council and promulgated by the Institute of Chartered Accountants in Ireland.

This report is made solely to the company's members, as a body, in accordance with Section 391 of the Companies Act 2014. Our audit work has been undertaken so that we might state to the company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the company and the company's members as a body, for our audit work, for this report, or for the opinions we have formed.

**Respective responsibilities of directors and auditors**

As explained more fully in the Directors' Responsibilities Statement, the directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view and otherwise comply with the Companies Act 2014. Our responsibility is to audit and express an opinion on the financial statements in accordance with Irish law and International Standards on Auditing (UK and Ireland). Those standards require us to comply with the Auditing Practice Board's Ethical Standards for Auditors.

**Scope of the audit of the financial statements**

An audit involves obtaining evidence about the amounts and disclosures in the financial statements sufficient to give reasonable assurance that the financial statements are free from material misstatement, whether caused by fraud or error. This includes an assessment of: whether the accounting policies are appropriate to the company's circumstances and have been consistently applied and adequately disclosed; the reasonableness of significant accounting estimates made by the directors; and the overall presentation of the financial statements. In addition, we read all the financial and non-financial information in the Directors' Report to identify material inconsistencies with the audited financial statements and to identify any information that is apparently materially incorrect based on, or materially inconsistent with, the knowledge acquired by us in the course of performing the audit. If we become aware of any apparent material misstatements or inconsistencies we consider the implications for our report.

**Opinion on financial statements**

In our opinion the financial statements:

- give a true and fair view of the assets, liabilities and financial position of the company as at 31 December 2016 and of its results for the year then ended; and
- have been properly prepared in accordance with the relevant financial reporting framework and, in particular, the requirements of the Companies Act 2014.

**Matters on which we are required to report by the Companies Act 2014**

- We have obtained all the information and explanations which we consider necessary for the purposes of our audit.
- In our opinion the accounting records of the company were sufficient to permit the financial statements to be readily and properly audited.
- The financial statements are in agreement with the accounting records.
- In our opinion the information given in the Directors' Report is consistent with the financial statements.

**Matters on which we are required to report by exception**

We have nothing to report in respect of the provisions in the Companies Act 2014 which require us to report to you if, in our opinion, the disclosures of directors' remuneration and transactions specified by Sections 305 to 312 of the Act are not made.

Alice Barnes

**for and on behalf of**

Kieran Ryan & Co.

Chartered Accountants and Statutory Audit Firm

20 Upper Mount Street

Dublin 2

**Date:** \_\_\_\_\_

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**INCOME STATEMENT**  
**FOR THE YEAR ENDED 31 DECEMBER 2016**

	Notes	2016 €	2015 €
<b>Income</b>	4	66,133	40,675
<b>Expenditure</b>		(45,736)	(39,225)
<b>Surplus on ordinary activities before interest</b>		20,397	1,450
Interest receivable and similar income	5	17	25
<b>Total Comprehensive Income</b>		20,414	1,475

The company has no recognised gains or losses other than the surplus for the year. The results for the year have been calculated on the historical cost basis. The company's income and expenses all relate to continuing operations.

**Approved by the board on \_\_\_\_\_ and signed on its behalf by:**

\_\_\_\_\_  
Catherine Buckley  
**Director**

\_\_\_\_\_  
Marie Fleming  
**Director**

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**BALANCE SHEET**  
**AS AT 31 DECEMBER 2016**

	Notes	2016 €	2015 €
<b>Current Assets</b>			
Debtors	7	1,552	3,931
Cash and cash equivalents		70,871	50,803
		<u>72,423</u>	<u>54,734</u>
<b>Creditors: Amounts falling due within one year</b>	8	<u>(4,874)</u>	<u>(7,599)</u>
<b>Net Current Assets</b>		<u>67,549</u>	<u>47,135</u>
<b>Total Assets less Current Liabilities</b>		<u>67,549</u>	<u>47,135</u>
<b>Reserves</b>			
Income statement		<u>67,549</u>	<u>47,135</u>
<b>Equity attributable to owners of the company</b>		<u>67,549</u>	<u>47,135</u>

Approved by the board on \_\_\_\_\_ and signed on its behalf by:

\_\_\_\_\_  
Catherine Buckley  
**Director**

\_\_\_\_\_  
Marie Fleming  
**Director**

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**STATEMENT OF CHANGES IN EQUITY**  
**AS AT 31 DECEMBER 2016**

	Retained surplus	Total
	€	€
<b>At 1 January 2015</b>	45,660	45,660
Surplus for the year	<u>1,475</u>	<u>1,475</u>
<b>At 31 December 2015</b>	47,135	47,135
Surplus for the year	<u>20,414</u>	<u>20,414</u>
<b>At 31 December 2016</b>	<u><u>67,549</u></u>	<u><u>67,549</u></u>

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**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**STATEMENT OF CASH FLOWS**  
**FOR THE YEAR ENDED 31 DECEMBER 2016**

	Notes	2016 €	2015 €
<b>Cash flows from operating activities</b>			
Surplus for the year		20,414	1,475
Adjustments for:			
Interest receivable and similar income		(17)	(25)
		<u>20,397</u>	<u>1,450</u>
Movements in working capital:			
Movement in debtors		2,379	656
Movement in creditors		(2,725)	(156)
		<u>20,051</u>	<u>1,950</u>
<b>Cash flows from investing activities</b>			
Interest received		17	25
		<u>20,068</u>	<u>1,975</u>
<b>Net increase in cash and cash equivalents</b>		<u>20,068</u>	<u>1,975</u>
<b>Cash and cash equivalents at beginning of financial year</b>		<u>50,803</u>	<u>48,828</u>
<b>Cash and cash equivalents at end of financial year</b>	10	<u><u>70,871</u></u>	<u><u>50,803</u></u>

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)  
NOTES TO THE FINANCIAL STATEMENTS  
FOR THE YEAR ENDED 31 DECEMBER 2016**

**1. General Information**

Institute of Geologists of Ireland Company Limited By Guarantee is a company limited by guarantee incorporated in the Republic of Ireland.

**2. Accounting Policies**

The following accounting policies have been applied consistently in dealing with items which are considered material in relation to the company's financial statements.

**Statement of compliance**

The financial statements of the company for the year ended 31 December 2016 have been prepared on the going concern basis and in accordance with generally accepted accounting principles in Ireland and Irish statute comprising the Companies Act 2014 and in accordance with the Financial Reporting Standard applicable in the United Kingdom and the Republic of Ireland (FRS 102) issued by the Financial Reporting Council.

**Basis of preparation**

The financial statements have been prepared on the going concern basis and in accordance with the historical cost convention except for certain properties and financial instruments that are measured at revalued amounts or fair values, as explained in the accounting policies below. Historical cost is generally based on the fair value of the consideration given in exchange for assets. The financial reporting framework that has been applied in their preparation is the Companies Act 2014 and FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" issued by the Financial Reporting Council and promulgated by the Institute of Chartered Accountants in Ireland.

**Income**

Income represents membership subscriptions, course fees and other income for the year.

**Tangible fixed assets and depreciation**

Tangible fixed assets are stated at cost or at valuation, less accumulated depreciation. The charge to depreciation is calculated to write off the original cost or valuation of tangible fixed assets, less their estimated residual value, over their expected useful lives as follows:

Computer equipment	- 33.33% Straight-line
--------------------	------------------------

The carrying values of tangible fixed assets are reviewed annually for impairment in periods if events or changes in circumstances indicate the carrying value may not be recoverable.

**Trade and other debtors**

Trade and other debtors are initially recognised at fair value and thereafter stated at amortised cost using the effective interest method less impairment losses for bad and doubtful debts except where the effect of discounting would be immaterial. In such cases the receivables are stated at cost less impairment losses for bad and doubtful debts.

**Trade and other creditors**

Trade and other creditors are initially recognised at fair value and thereafter stated at amortised cost using the effective interest rate method, unless the effect of discounting would be immaterial, in which case they are stated at cost.

**Taxation**

The company is exempt from corporation tax under Sections 76 and 78 Taxes Consolidation Act, 1997.

**3. Departure from Companies Act 2014 Presentation**

The directors have elected to present an Income and Expenditure Account instead of a Profit and Loss Account in these financial statements as this company is a not-for-profit entity.

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**FOR THE YEAR ENDED 31 DECEMBER 2016**

continued

**4. Income**

The income for the year has been derived from:-

	2016 €	2015 €
Professional member subscription	29,921	29,706
Member MIT subscription	800	640
Member retired	320	320
Member MIT application	150	150
European geologists application fee	600	500
Sponsorship	2,600	-
European geologists memberships subscription	4,680	4,646
Courses	7,445	4,698
Other income	63	15
Grant	13,518	-
Philcox Award Evening	6,036	-
	<u>66,133</u>	<u>40,675</u>

The whole of the company's income is attributable to its market in the Republic of Ireland and is derived from the principal activity of promoting and advancing the science of geology and its professional application in all disciplines and to facilitate exchange of information and ideas in relation thereto.

**5. Interest Receivable and Similar Income**

	2016 €	2015 €
Bank interest	<u>17</u>	<u>25</u>

**6. Tangible Fixed Assets**

	Computer equipment €	Total €
<b>Cost</b>		
At 31 December 2016	<u>1,153</u>	<u>1,153</u>
<b>Depreciation</b>		
At 31 December 2016	<u>1,153</u>	<u>1,153</u>
<b>Net book value</b>		
At 31 December 2016	<u>-</u>	<u>-</u>



**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**FOR THE YEAR ENDED 31 DECEMBER 2016**

continued

**6.1. Tangible Fixed Assets Prior Year**

	Computer equipment €	Total €
<b>Cost</b>		
At 31 December 2015	1,153	1,153
<b>Depreciation</b>		
At 31 December 2015	1,153	1,153
<b>Net book value</b>		
At 31 December 2015	-	-

<b>7. Debtors</b>	2016 €	2015 €
Trade debtors	118	2,870
Prepayments and accrued income	1,434	1,061
	<u>1,552</u>	<u>3,931</u>

<b>8. Creditors</b>	2016	2015
<b>Amounts falling due within one year</b>	€	€
Accruals	4,054	7,599
Deferred Income	820	-
	<u>4,874</u>	<u>7,599</u>

**9. Status**

The liability of the members is limited.

Every member of the company undertakes to contribute to the assets of the company, in the event of the same being wound up while he is a member or within one year after he ceases being a member, for a payment of the debts and liabilities of the company contracted before he ceases to be a member, and of the costs, charges and expenses of winding up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required, not exceeding €1.27.

<b>10. Cash and Cash Equivalents</b>	2016 €	2015 €
Cash and bank balances	27,301	7,251
Cash equivalents	43,570	43,552
	<u>70,871</u>	<u>50,803</u>

**11. Approval of Financial Statements**

The financial statements were approved and authorised for issue by the board of directors on \_\_\_\_\_.

**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**

**SUPPLEMENTARY INFORMATION**

**RELATING TO THE FINANCIAL STATEMENTS**

**FOR THE YEAR ENDED 31 DECEMBER 2016**

**NOT COVERED BY THE REPORT OF THE AUDITORS**

**THE FOLLOWING PAGES DO NOT FORM PART OF THE AUDITED FINANCIAL STATEMENTS**

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**INSTITUTE OF GEOLOGISTS OF IRELAND COMPANY LIMITED BY GUARANTEE**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**SUPPLEMENTARY INFORMATION RELATING TO THE FINANCIAL STATEMENTS**  
**DETAILED INCOME AND EXPENDITURE ACCOUNT**  
**FOR THE YEAR ENDED 31 DECEMBER 2016**

	2016 €	2015 €
<b>Income</b>		
Professional member subscription	29,921	29,706
Member MIT subscription	800	640
Member retired	320	320
Member MIT application	150	150
European geologists application fee	600	500
Sponsorship	2,600	-
European geologists membership subscription	4,680	4,646
Courses	7,445	4,698
Other income	63	15
Grant	13,518	-
Philcox Award Evening	6,036	-
	<hr/> 66,133 <hr/>	<hr/> 40,675 <hr/>
<b>Expenditure</b>		
Rent	2,402	2,402
Insurance	177	885
Conference costs	10,559	708
Courses	2,536	4,732
Publications and printing	-	326
Mail and secretarial	29	111
Telephone	742	753
Website and computer costs	4,363	3,617
Travelling and entertainment	617	-
Consultancy fees	13,044	13,287
Bank charges	2,129	1,601
General expenses	553	578
European Federation of Geologists expenses	1,033	1,735
European Federation of Geologists subscriptions	4,592	4,530
Sponsorship	500	1,500
Auditor's remuneration	2,460	2,460
	<hr/> 45,736 <hr/>	<hr/> 39,225 <hr/>
<b>Miscellaneous income</b>		
Bank interest	<hr/> 17 <hr/>	<hr/> 25 <hr/>
<b>Net surplus</b>	<hr/> <hr/> 20,414 <hr/> <hr/>	<hr/> <hr/> 1,475 <hr/> <hr/>

**Company Number: 314400**

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**

**DIRECTORS' REPORT AND FINANCIAL STATEMENTS**

**FOR THE YEAR ENDED 31 DECEMBER 2015**

**Kieran Ryan & Co.  
Chartered Accountants and Statutory Audit Firm  
20 Upper Mount Street  
Dublin 2**

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
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**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**DIRECTORS AND OTHER INFORMATION**

<b>Directors</b>	Gerard Stanley (Resigned 10 March 2016) Marie Fleming Peter Glanville James Hodgson Catherine Buckley (Appointed 10 March 2016)
<b>Company Secretary</b>	Peter Glanville
<b>Company Number</b>	314400
<b>Registered Office</b>	20 Upper Mount Street Dublin 2
<b>Business Address</b>	63 Merrion Square Dublin 2
<b>Auditors</b>	Kieran Ryan & Co. Chartered Accountants and Statutory Audit Firm 20 Upper Mount Street Dublin 2
<b>Bankers</b>	Bank of Ireland College Green Dublin 2
<b>Solicitors</b>	Hayes Solicitors Lavery House Earlsfort Terrace Dublin 2
<b>Charity Number</b>	13580

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**DIRECTORS' REPORT**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

The directors present their report and the audited financial statements for the year ended 31 December 2015.

**Principal Activity**

The principal activity of the company is to promote and advance the science of geology and its professional application in all disciplines and to facilitate exchange of information and ideas in relation thereto.

The Company is limited by guarantee without a share capital.

**Principal Risks and Uncertainties**

The principal risks and uncertainties facing the company is that of non payment of membership fees.

**Financial Results**

The surplus for the year after providing for depreciation amounted to €1,475 (2014 - €2,483).

At the end of the year the company has assets of €54,734 (2014 - €53,415) and liabilities of €7,599 (2014 - €7,755). The net assets of the company have increased by €1,475.

**Directors and Secretary**

The directors who served throughout the year, except as noted, were as follows:

Gerard Stanley (Resigned 10 March 2016)

Marie Fleming

Peter Glanville

James Hodgson

Catherine Buckley (Appointed 10 March 2016)

The secretary who served throughout the year was Peter Glanville

There were no changes in shareholdings between 31 December 2015 and the date of signing the financial statements.

**Future Developments**

The directors do not envisage any substantial changes to the nature of the company.

**Post Balance Sheet Events**

There have been no important events since the year-end.

**Auditors**

The auditors, Kieran Ryan & Co., (Chartered Accountants) have indicated their willingness to continue in office in accordance with the provisions of Section 383(2) of the Companies Act, 2014.



**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**DIRECTORS' REPORT**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

**Accounting Records**

To ensure that adequate accounting records are kept in accordance with Sections 281 to 285 of the Companies Act 2014, the directors have employed appropriately qualified accounting personnel and have maintained appropriate computerised accounting systems. The accounting records are located at the company's office at 63 Merrion Square, Dublin 2.

**Signed on behalf of the board**

\_\_\_\_\_  
Catherine Buckley

**Director**

\_\_\_\_\_  
Marie Fleming

**Director**

**Date:** \_\_\_\_\_

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**DIRECTORS' RESPONSIBILITIES STATEMENT**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

The directors are responsible for preparing the Directors' Report and the financial statements in accordance with applicable Irish law and regulations.

Irish company law requires the directors to prepare financial statements for each financial year. Under the law the directors have elected to prepare the financial statements in accordance with the Companies Act 2014 and FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" issued by the Financial Reporting Council and promulgated by the Institute of Chartered Accountants in Ireland. Under company law, the directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the assets, liabilities and financial position of the company as at the financial year end date and of the surplus or deficit of the company for the financial year and otherwise comply with the Companies Act 2014.

In preparing these financial statements, the directors are required to:

- select suitable accounting policies for the company financial statements and then apply them consistently;
- make judgements and estimates that are reasonable and prudent;
- state whether the financial statements have been prepared in accordance with applicable accounting standards, identify those standards, and note the effect and the reasons for any material departure from those standards; and
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the company will continue in business.

The directors are responsible for ensuring that the company keeps or causes to be kept adequate accounting records which correctly explain and record the transactions of the company, enable at any time the assets, liabilities, financial position and surplus or deficit of the company to be determined with reasonable accuracy and enable them to ensure that the financial statements and directors' report comply with the Companies Act 2014 and enable the financial statements to be audited. They are also responsible for safeguarding the assets of the company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

**Signed on behalf of the board**

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Catherine Buckley  
**Director**

---

Marie Fleming  
**Director**

**Date:** \_\_\_\_\_

**INDEPENDENT AUDITOR'S REPORT  
TO THE MEMBERS OF INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**

We have audited the financial statements of Institute of Geologists of Ireland Limited for the year ended 31 December 2015 which comprise the Income and Expenditure Account, the Balance Sheet, the Statement of Changes in Equity, the Statement of Cash Flows, the Accounting Policies and the related notes. The relevant financial reporting framework that has been applied in their preparation is the Companies Act 2014 and FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" issued by the Financial Reporting Council and promulgated by the Institute of Chartered Accountants in Ireland.

This report is made solely to the company's members, as a body, in accordance with Section 391 of the Companies Act 2014. Our audit work has been undertaken so that we might state to the company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the company and the company's members as a body, for our audit work, for this report, or for the opinions we have formed.

**Respective responsibilities of directors and auditors**

As explained more fully in the Directors' Responsibilities Statement, the directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view and otherwise comply with the Companies Act 2014. Our responsibility is to audit and express an opinion on the financial statements in accordance with Irish law and International Standards on Auditing (UK and Ireland). Those standards require us to comply with the Auditing Practice Board's Ethical Standards for Auditors.

**Scope of the audit of the financial statements**

An audit involves obtaining evidence about the amounts and disclosures in the financial statements sufficient to give reasonable assurance that the financial statements are free from material misstatement, whether caused by fraud or error. This includes an assessment of: whether the accounting policies are appropriate to the company's circumstances and have been consistently applied and adequately disclosed; the reasonableness of significant accounting estimates made by the directors; and the overall presentation of the financial statements. In addition, we read all the financial and non-financial information in the Directors' Report to identify material inconsistencies with the audited financial statements and to identify any information that is apparently materially incorrect based on, or materially inconsistent with, the knowledge acquired by us in the course of performing the audit. If we become aware of any apparent material misstatements or inconsistencies we consider the implications for our report.

**Opinion on financial statements**

In our opinion the financial statements:

- give a true and fair view of the assets, liabilities and financial position of the company as at 31 December 2015 and of its results for the year then ended; and
- have been properly prepared in accordance with the relevant financial reporting framework and, in particular, the requirements of the Companies Act 2014.

**Matters on which we are required to report by the Companies Act 2014.**

- We have obtained all the information and explanations which we consider necessary for the purposes of our audit.
- In our opinion the accounting records of the company were sufficient to permit the financial statements to be readily and properly audited.
- The financial statements are in agreement with the accounting records.
- In our opinion the information given in the Directors' Report is consistent with the financial statements.

**Matters on which we are required to report by exception**

We have nothing to report in respect of the provisions in the Companies Act 2014 which require us to report to you if, in our opinion, the disclosures of directors' remuneration and transactions specified by Sections 305 to 312 of the Act are not made.

Alice Barnes  
**for and on behalf of**  
Kieran Ryan & Co.  
Chartered Accountants and Statutory Audit Firm  
20 Upper Mount Street  
Dublin 2

**Date:** \_\_\_\_\_

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**INCOME AND EXPENDITURE ACCOUNT**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

	Notes	2015 €	2014 €
<b>Income</b>	5	40,675	50,663
<b>Expenditure</b>		(39,225)	(48,206)
<b>Surplus on ordinary activities before interest</b>		1,450	2,457
Interest receivable and similar income	7	25	26
<b>Total Comprehensive Income</b>		1,475	2,483

The company has no recognised gains or losses other than the surplus for the year. The results for the year have been calculated on the historical cost basis. The company's income and expenses all relate to continuing operations.

**Approved by the board on \_\_\_\_\_ and signed on its behalf by:**

\_\_\_\_\_  
Catherine Buckley  
**Director**

\_\_\_\_\_  
Marie Fleming  
**Director**

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**BALANCE SHEET**  
**AS AT 31 DECEMBER 2015**

	Notes	2015 €	2014 €
<b>Current Assets</b>			
Debtors	9	3,931	4,587
Cash and cash equivalents		50,803	48,828
		<u>54,734</u>	<u>53,415</u>
<b>Creditors: Amounts falling due within one year</b>	10	<u>(7,599)</u>	<u>(7,755)</u>
<b>Net Current Assets</b>		<u>47,135</u>	<u>45,660</u>
<b>Total Assets less Current Liabilities</b>		<u>47,135</u>	<u>45,660</u>
<b>Reserves</b>			
Income and expenditure account		<u>47,135</u>	<u>45,660</u>
<b>Members' Funds</b>		<u>47,135</u>	<u>45,660</u>

Approved by the board on \_\_\_\_\_ and signed on its behalf by:

\_\_\_\_\_  
Catherine Buckley  
**Director**

\_\_\_\_\_  
Marie Fleming  
**Director**

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**STATEMENT OF CHANGES IN EQUITY**  
**AS AT 31 DECEMBER 2015**

	Retained surplus	Total
	€	€
<b>At 1 January 2014</b>	43,177	43,177
Surplus for the year	<u>2,483</u>	<u>2,483</u>
<b>At 31 December 2014</b>	45,660	45,660
Surplus for the year	<u>1,475</u>	<u>1,475</u>
<b>At 31 December 2015</b>	<u><u>47,135</u></u>	<u><u>47,135</u></u>

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**STATEMENT OF CASH FLOWS**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

	Notes	2015 €	2014 €
<b>Cash flows from operating activities</b>			
Surplus for the year		1,475	2,483
Adjustments for:			
Interest receivable and similar income		(25)	(26)
Depreciation		-	225
		<u>1,450</u>	<u>2,682</u>
Movements in working capital:			
Movement in debtors		656	(271)
Movement in creditors		(156)	2,718
		<u>1,950</u>	<u>5,129</u>
<b>Cash flows from investing activities</b>			
Interest received		25	26
		<u>1,975</u>	<u>5,155</u>
<b>Net increase in cash and cash equivalents</b>		<u>1,975</u>	<u>5,155</u>
<b>Cash and cash equivalents at beginning of financial year</b>		<u>48,828</u>	<u>43,673</u>
<b>Cash and cash equivalents at end of financial year</b>	12	<u><u>50,803</u></u>	<u><u>48,828</u></u>

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

**1. General Information**

Institute of Geologists of Ireland Limited is a company limited by guarantee incorporated in the Republic of Ireland.

**2. Accounting Policies**

The following accounting policies have been applied consistently in dealing with items which are considered material in relation to the company's financial statements.

**Statement of compliance**

The financial statements of the company for the year ended 31 December 2015 have been prepared on the going concern basis and in accordance with generally accepted accounting principles in Ireland and Irish statute comprising the Companies Act 2014 and in accordance with the Financial Reporting Standard applicable in the United Kingdom and the Republic of Ireland (FRS 102) issued by the Financial Reporting Council.

**Basis of preparation**

The financial statements have been prepared on the going concern basis and in accordance with the historical cost convention except for certain properties and financial instruments that are measured at revalued amounts or fair values, as explained in the accounting policies below. Historical cost is generally based on the fair value of the consideration given in exchange for assets. The financial reporting framework that has been applied in their preparation is the Companies Act 2014 and FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" issued by the Financial Reporting Council and promulgated by the Institute of Chartered Accountants in Ireland.

**Income**

Income represents membership subscriptions, course fees and other income for the year.

**Tangible fixed assets and depreciation**

Tangible fixed assets are stated at cost or at valuation, less accumulated depreciation. The charge to depreciation is calculated to write off the original cost or valuation of tangible fixed assets, less their estimated residual value, over their expected useful lives as follows:

Computer equipment	- 33.33% Straight-line
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The carrying values of tangible fixed assets are reviewed annually for impairment in periods if events or changes in circumstances indicate the carrying value may not be recoverable.

**Trade and other debtors**

Trade and other debtors are initially recognised at fair value and thereafter stated at amortised cost using the effective interest method less impairment losses for bad and doubtful debts except where the effect of discounting would be immaterial. In such cases the receivables are stated at cost less impairment losses for bad and doubtful debts.

**Trade and other creditors**

Trade and other creditors are initially recognised at fair value and thereafter stated at amortised cost using the effective interest rate method, unless the effect of discounting would be immaterial, in which case they are stated at cost.

**Taxation**

The company is exempt from corporation tax under Sections 76 and 78 Taxes Consolidation Act, 1997.



**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

continued

**3. Adoption of FRS 102**

This is the first set of financial statements prepared by Institute of Geologists of Ireland Limited in accordance with accounting standards issued by the Financial Reporting Council, including FRS 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland" ("FRS 102"). The company transitioned from previously extant Irish and UK GAAP to FRS 102 as at 1 January 2014. There were no material differences to be reported on transition.

**4. Departure from Companies Act 2014 Presentation**

The directors have elected to present an Income and Expenditure Account instead of a Profit and Loss Account in these financial statements as this company is a not-for-profit entity.

**5. Income**

The income for the year has been derived from:-

	2015 €	2014 €
Professional member subscription	29,706	26,441
Member MIT subscription	640	385
Member retired	320	210
Member MIT application	150	280
European geologists application fee	500	1,508
Sponsorship	-	4,000
European geologists memberships subscription	4,646	4,309
Courses	4,698	13,212
Other income	15	318
	<u>40,675</u>	<u>50,663</u>

The whole of the company's income is attributable to its market in the Republic of Ireland and is derived from the principal activity of promoting and advancing the science of geology and its professional application in all disciplines and to facilitate exchange of information and ideas in relation thereto.

<b>6. Operating Surplus</b>	2015 €	2014 €
<b>Operating surplus is stated after charging:</b>		
Depreciation of tangible fixed assets	-	225
	<u>-</u>	<u>225</u>
<b>7. Interest Receivable and Similar Income</b>	2015 €	2014 €
Bank interest	25	26
	<u>25</u>	<u>26</u>

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

continued

**8. Tangible Fixed Assets**

	Computer equipment €	Total  €
<b>Cost or Valuation</b>		
At 31 December 2015	1,153	1,153
<b>Depreciation</b>		
At 31 December 2015	1,153	1,153
<b>Net book value</b>		
At 31 December 2015	-	-

**8.1. Tangible Fixed Assets Prior Year**

	Computer equipment €	Total  €
<b>Cost or Valuation</b>		
At 31 December 2014	1,153	1,153
<b>Depreciation</b>		
At 1 January 2014	928	928
Charge for the year	225	225
At 31 December 2014	1,153	1,153
<b>Net book value</b>		
At 31 December 2014	-	-
At 31 December 2013	225	225

**9. Debtors**

	2015 €	2014 €
Trade debtors	2,870	3,927
Prepayments and accrued income	1,061	660
	3,931	4,587

**10. Creditors**  
**Amounts falling due within one year**

	2015 €	2014 €
Accruals	7,599	7,755

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

continued

**11. Status**

The liability of the members is limited.

Every member of the company undertakes to contribute to the assets of the company, in the event of the same being wound up while he is a member or within one year after he ceases being a member, for a payment of the debts and liabilities of the company contracted before he ceases to be a member, and of the costs, charges and expenses of winding up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required, not exceeding €1.27.

**12. Cash and Cash Equivalents**

	2015 €	2014 €
Cash and bank balances	7,251	5,301
Cash equivalents	43,552	43,527
	<u>50,803</u>	<u>48,828</u>

**13. Approval of Financial Statements**

The financial statements were approved and authorised for issue by the board of directors on \_\_\_\_\_.

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED  
(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**

**SUPPLEMENTARY INFORMATION**

**RELATING TO THE FINANCIAL STATEMENTS**

**FOR THE YEAR ENDED 31 DECEMBER 2015**

**NOT COVERED BY THE REPORT OF THE AUDITORS**

**THE FOLLOWING PAGES DO NOT FORM PART OF THE AUDITED FINANCIAL STATEMENTS**

**INSTITUTE OF GEOLOGISTS OF IRELAND LIMITED**  
**(A COMPANY LIMITED BY GUARANTEE, WITHOUT A SHARE CAPITAL)**  
**SUPPLEMENTARY INFORMATION RELATING TO THE FINANCIAL STATEMENTS**  
**DETAILED INCOME AND EXPENDITURE ACCOUNT**  
**FOR THE YEAR ENDED 31 DECEMBER 2015**

	2015 €	2014 €
<b>Income</b>		
Professional member subscription	29,706	26,441
Member MIT subscription	640	385
Member retired	320	210
Member MIT application	150	280
European geologists application fee	500	1,508
Sponsorship	-	4,000
European geologists membership subscription	4,646	4,309
Courses	4,698	13,212
Other income	15	318
	<hr/> 40,675 <hr/>	<hr/> 50,663 <hr/>
<b>Expenditure</b>		
Rent	2,402	2,752
Insurance	885	1,589
Conference costs	708	8,819
Courses	4,732	1,150
Publications and printing	326	254
Mail and secretarial	111	731
Telephone	753	787
Website and computer costs	3,617	3,060
Consultancy fees	13,287	13,898
Bank charges	1,601	746
General expenses	578	1,861
European Federation of Geologists expenses	1,735	2,127
European Federation of Geologists subscriptions	4,530	6,997
Sponsorship	1,500	750
Auditor's remuneration	2,460	2,460
Depreciation	-	225
	<hr/> 39,225 <hr/>	<hr/> 48,206 <hr/>
<b>Miscellaneous income</b>		
Bank interest	<hr/> 25 <hr/>	<hr/> 26 <hr/>
<b>Net surplus</b>	<hr/> <hr/> 1,475 <hr/> <hr/>	<hr/> <hr/> 2,483 <hr/> <hr/>