The evolution of:
- Geoscience Education (GeoSciEd), conferences
- the International Geoscience Education Organisation (IGEO)
- the International Earth Science Olympiads (IESO) and
- the International Union of Geological Sciences (IUGS) Commission on Geoscience Education and Technology Transfer (COGE)

Chris King, Keele University

Summary
The sections below comprise:
- a timeline of GeoSciEd conferences, IGEO and IESO meetings and development
- a GeoSciEd conference section
- an International Geoscience Education Organisation (IGEO) section
- an International Earth Science Olympiad (IESO) section
- an International Union of Geological Sciences (IUGS) Commission on Geoscience Education and Technology Transfer (COGE) section

Timeline

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1990</td>
<td>International Union of Geological Sciences (IUGS) Commission on Geoscience Education and Training (COGEOED)</td>
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<tr>
<td>1993</td>
<td>International Conference on Geoscience Education and Training, Southampton, UK</td>
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<td>1994</td>
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<td>1995</td>
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<td>1997</td>
<td>GeoSciEd II, Hilo, Hawaii, USA</td>
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<td></td>
<td>International geoscience education association development committee formed, Hilo, Hawaii, USA</td>
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<td>1998</td>
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<td>1999</td>
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<td>2000</td>
<td>GeoSciEd III, Sydney, Australia</td>
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<td></td>
<td>Internal Geoscience Education Organisation (IGEO) formed; first General Meeting, Sydney, Australia</td>
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<td></td>
<td>First IGEO Council meeting, Sydney, Australia</td>
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<td>2001</td>
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<td>2002</td>
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<td>2003</td>
<td>GeoSciEd IV, Calgary, Canada</td>
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<td>Second IGEO General meeting, Calgary, Canada</td>
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<td>Second IGEO Council meeting, Calgary, Canada</td>
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<td>2004</td>
<td>32nd International Geological Congress (IGC), Florence, Italy, IGEO organisation of three themes (school, higher and outreach education)</td>
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<td></td>
<td>Third IGEO Council meeting, Florence, Italy</td>
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<td>Formation of the International Union of Geological Sciences (IUGS) Commission on Geoscience Education and Technology Transfer (COGE), Boulder Colorado, USA</td>
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<td>2005</td>
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<td>2006</td>
<td>GeoSciEd V, Bayreuth, Germany</td>
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<td>Third IGEO General meeting, Bayreuth, Germany</td>
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<td></td>
<td>Fourth IGEO Council meeting, Bayreuth, Germany</td>
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<td>2008</td>
<td>33rd International Geological Congress (IGC), Oslo, Norway, IGEO organisation of an education theme</td>
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<td>Fifth IGEO Council meeting, Oslo, Norway</td>
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<td></td>
<td>Meeting of members of the International Union of Geological Sciences (IUGS) Commission on Geoscience Education and Technology Transfer (COGE), Oslo, Norway</td>
</tr>
<tr>
<td></td>
<td>2nd International Earth Science Olympiad, Manila and Bicol, the Philippines</td>
</tr>
</tbody>
</table>
### GeoSciEd Conferences


- **Senior Officers:**
  - Chair: Gerry Cooray
  - Secretary/Treasurer: Dorrik Stow
  - Newsletter Editor: John Carpenter

**1993 - The first geoscience education conference:**

**International Conference on Geoscience Education and Training**

- **Dates:** 20th – 24th April, 1993
- **Venue:** University of Southampton, UK
- **Main sponsors:** the Association of Geoscientists for International Development (AGID) and the International Union of Geological Sciences (IUGS) Commission on Geoscience Education and Training (COGEOED)
- **Additional sponsors:** ICSU, ASE (International), ESTA (UK), Geological Society, Geographical Association, BGS plus a wide range of financial sponsors
- **Conference convenor:** Dorrik Stow (UK); theme convenors:
  - Geoscience education in schools: Chris King (UK) and David Thompson (UK)
  - Higher Education: Bill Gaskarth (UK) and Brian Daley (UK)
  - Geoscience Training for Business, Industry and Public Service: Tony Reedman (UK)
  - Public understanding of geoscience: Ian Sutton (UK)
- **Abstract volume:** published by the Geology Department, University of Southampton, UK, 1993

## Future plans

| 2016 | - 35th International Geological Congress (IGC) planned for Cape Town, South Africa
|      | - Ninth IEGO Council meeting planned for Cape Town, South Africa
|      | - IUGS-COGE Commission meeting planned for Cape Town, South Africa
|      | - 10th International Earth Science Olympiad planned for Mie, Japan
| 2017 | - 11th International Earth Science Olympiad
| 2018 | - GeoSciEd VIII, Sao Paulo, Brazil
|      | - 12th International Earth Science Olympiad planned for Thailand
| 2019 | - 13th International Earth Science Olympiad planned for the Republic of Korea

### 2009
- 3rd International Earth Science Olympiad, Taipei, Taiwan
- IGEO supported the International Conference for Global Development (GeoDev), Dhaka, Bangladesh

### 2010
- GeoSciEd VI, Johannesburg, South Africa
- Fourth IEGO General meeting, Johannesburg, South Africa
- Sixth IEGO Council meeting, Johannesburg, South Africa
- 4th International Earth Science Olympiad, Yogyakarta, Indonesia
- IGEO supported the Joint Assembly of Geoscience Organisations in the Americas, Iguassu Falls, Brazil

### 2011
- 5th International Earth Science Olympiad, Modena, Italy

### 2012
- 34th International Geological Congress (IGC), Brisbane, Australia, IGEO involvement in two themes 1.2 Geoscience education and 2.3 Developing geoscience education and awareness for the benefit of society
- Seventh IEGO Council meeting, Brisbane, Australia
- IUGS-COGE Commission meeting Brisbane, Australia
- 6th International Earth Science Olympiad Argentina

### 2013
- 7th International Earth Science Olympiad, India

### 2014
- GeoSciEd VII, Hyderabad, India
- Fifth IEGO General meeting, Hyderabad, India
- Eighth IEGO Council meeting, Hyderabad, India
- 8th International Earth Science Olympiad, Spain

### 2015
- 9th International Earth Science Olympiad, Brazil

### 2016

| 2016 | - 35th International Geological Congress (IGC) planned for Cape Town, South Africa
|      | - Ninth IEGO Council meeting planned for Cape Town, South Africa
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### Future plans
• Proceedings volume: Geoscience education and training, ed. DAV. Stow and GJH. McCall, Balkema, Rotterdam, 1996.

• Notes:
  o David Thompson, Nir Orion and Chris King met in a small café to discuss the development of an international association.

1997 – GeoSciEd II
• Venue: University of Hawaii at Hilo, Hawai‘i, USA
• Conference convenors: John Carpenter (USA), Vic Mayer (USA), Nir Orion (Israel), Frank Ireton (USA) Laure Wallace (USA)
• Support for production and distribution of Proceedings volume provided by:
  o National Science Foundation, Directorate for Education and Human Resources (US)
  o National Aeronautics and Space Administration, Mission to Planet Earth programme (US)
  o The Ohio State University, School of Natural Resources and Office of Applied Communications
  o The Alphyl Memorial Endowment Fund of the Ohio State University, a fund established in honour of Victor C. and Phyllis C. Mayer.
• Awards for lifetime service to geoscience education:
  o Yolanda Alba de Gonzales (Venezuela)
  o Victor J. Mayer (USA)
  o Emmanuel Mazor (Israel)
  o David Thompson (UK)
• Notes:
  o A group of geoscience educators met in a small restaurant (Uncle Billy’s Hilo Hideaway) in a rainstorm to formalise a proposal for an international association, prompted by Nir Orion.
  o This proposal was put to the general assembly at the conference, and was enthusiastically endorsed.
  o This was the formal beginning of an international association for earth science education.
  o Nir Orion and Chris King agreed to lead a development committee that would, among other things, determine the name of the association
  o Later, having discussed different names, including the International Geoscience Education Association (IGIA), the name of the new association was eventually agreed as the International Geoscience Education Organisation (IGEO).

2000 – GeoSciEd III
• Dates: 16th – 21st January, 2000
• Venue: University of New South Wales, Sydney, Australia
• Major sponsor: Australian Geological Survey Organisation (AGSO)
• Conference convenors: Malcolm Buck (Australia), Ian Clark (Australia), Gary Lewis (Australia)
• Award for lifetime service to geoscience education:
  o John Carpenter (USA)
• Notes:
  o The International Geoscience Education Organisation name was formally approved.
  o IGEO Chair elected: Chris King.
  o Later, the IGEO logo, website and constitution were developed.

2003 – GeoSciEd IV
• Venue: University of Calgary, Alberta, Canada.
• Major sponsors: IGEO, EnCana Corporation, Canadian Society of Petroleum Geologists Educational Trust
• Conference convenors: Alan Morgan and Godfrey Nowlan
• Awards for lifetime service to geoscience education:
  o Gerry Cooray
  o Ward Neale
• Notes:
  o IGEO Chair elected: Ian Clark (Australia).
  o The IGEO contribution to the forthcoming 32nd International Geological Congress in Florence, Italy in 2004 was planned.

2006 – GeoSciEd V
• Dates: 18th – 21st September, 2006.
• Venue: University of Bayreuth, Germany.
• Major sponsors: IGEO
• Conference convenors: Sylke Hlawatsch (Germany), Gabriele Obermaier (Germany), Ulrike Martin (Germany)
• Notes:
  o IGEO Chair elected: Chan-Jong Kim (Korea).
  o Plans were presented for the 1st Earth Science Olympiad, to be held at Seoul National University in Korea in October 2007.
  o Presentations were made to host GeoSciEd V by India and South Africa; South Africa was chosen.
  o Later the Senior Officers decided that IGEO should support:
    • the International Conference for Global Development (GeoDev) to be held in Dhaka, Bangladesh, on the 26th – 31st October, 2009 and
    • the Joint Assembly of Geoscience Organisations in the Americas, to be held at the Iguassu Falls, Brazil, on the 8th - 13th August, 2010.

2010 – GeoSciEd VI
• Venue: University of the Witwatersrand, Johannesburg, South Africa.
• Major sponsors: IGEO
• Conference convenor: Ian McKay
• Notes:
  o IGEO Chair elected: Sylke Hlawatsch (Germany).
  o The IGEO contribution to the forthcoming 34th International Geological Congress in Brisbane, Australia, in 2012 planned.
A presentation was made by India to host GeoSciEd VI, which was approved.

2014 – GeoSciEd VII
- Venue: University of Hyderabad, Hyderabad, India
- Major sponsors: IGEO
- Conference convenor: Shankar

Notes:
- IGEO Chair elected: Shankar (India).
- IGEO Chair elect elected: Roberto Greco (Brazil)
- The IGEO contribution to the forthcoming 35th International Geological Congress in Cape Town, South, in 2016 was planned.
- Brazil was elected to host GeoSciEd VIII in 2018.
International Geoscience Education Organisation (IGEO)

1997  The formation of an international geoscience education association proposed and endorsed
Chairs of the association development committee: Nir Orion and Chris King.

First General Meeting.

Senior Officers, 2000 - 2003:
  o  Chair: Chris King (UK).
  o  Newsletter editors: Laure Wallace (USA) and Mary Dowse (USA)

IGEO logo, constitution and website developed.

2003  Second IGEO General meeting (Calgary, August 2003)
Second IGEO Council meeting (Calgary, August 2003)

Senior Officers, 2003 - 2006:
  o  Chair: Ian Clark (Australia)
  o  Vice-Chair (retiring): Chris King (UK)
  o  Vice-Chair (elect): Chan-Jong Kim (Korea)
  o  Secretary/treasurer: Alan Morgan (Canada)
  o  Newsletter editor: Bronte Nicholls (Australia)

2004  Third IGEO Council meeting (Florence, Italy, August 2004)

2006  Third IGEO General meeting (Bayreuth, Germany, September 2006)
Fourth IGEO Council meeting

Senior Officers, 2006 - 2010:
  o  Chair: Chan-Jong Kim (Korea)
  o  Vice-Chair (retiring): Ian Clark (Australia)
  o  Vice-Chair (elect): Sylke Hlawatsch (Germany)
  o  Secretary/treasurer: Alan Morgan (Canada)
  o  Newsletter editor: Bronte Nicholls (Australia)

2008  Fifth IGEO Council meeting (Oslo, Norway, August 2008)

2010  Fourth IGEO General meeting (Johannesburg, South Africa, September 2010)
Sixth IGEO Council meeting (Johannesburg, South Africa, September 2010)

Senior Officers, 2010 - 2014:
  o  Chair: Sylke Hlawatsch (Germany)
  o  Vice-Chair (retiring): Chan-Jong Kim (Korea)
  o  Vice-Chair (elect): Shankar Rajasekharaiah (India)
  o  Secretary: Roberto Greco (Italy)
  o  Treasurer: Gabriele Obermaier (Germany)
  o  Newsletter editor: Bronte Nicholls (Australia)

2012  Seventh IGEO Council meeting (Brisbane, Australia, August 2012)

2014  Fifth IGEO General meeting (Hyderabad, India, September 2014)
Eighth IGEO Council meeting (Hyderabad, India, September 2014)

Senior Officers, 2014 - 2018:
  o  Chair: Shankar Rajasekharaiah, India
  o  Vice-Chair (retiring): Sylke Hlawatsch, Germany
  o  Vice-Chair (elect): Roberto Greco, Brazil
  o  Secretary: Anish Warrier, India
  o  Treasurer: Gabriele Obermaier (Germany)
- Newsletter editor: Bronte Nicholls (Australia)
- Advisor: Chris King, United Kingdom
**International Earth Science Education Olympiads (IESOs)**

**1st Earth Science Education Olympiad**
- Venue: Daegu and Youngwol, Korea.
- Convenor: Moo Young Song
- Number of participating countries: 8
- Chair of the IESO Advisory Committee: Chan-Jong Kim
- Chair of the IESO Coordinating Committee: Moo Young Song

**2nd Earth Science Education Olympiad**
- Dates: 31st August – 8th September, 2008
- Venue: Manila and Bicol, the Philippines.
- Convenor: Miguel Cano
- Theme: Cooptition in Addressing Climate Change
- Number of participating countries: 7
- Chair of the IESO Advisory Committee: Chan-Jong Kim
- Chair of the IESO Coordinating Committee: Moo Young Song

**3rd Earth Science Education Olympiad**
- Dates: 14th – 22nd September, 2009
- Venue: National Taiwan Normal University, Taipei, Taiwan.
- Convenor: Chun-Yen Chang
- Theme: Human environment
- Number of participating countries: 17
- Chair of the IESO Advisory Committee: Chan-Jong Kim
- Chair of the IESO Coordinating Committee: Moo Young Song

**4th Earth Science Education Olympiad**
- Venue: Gadjah Mada University, Yogyakarta, Indonesia.
- Convenor: Hendra Amijaya
- Theme: The present is the key to the future
- Number of participating countries: 18
- Chair of the IESO Advisory Committee: Chan-Jong Kim
- Chair of the IESO Coordinating Committee: Moo Young Song

**5th Earth Science Education Olympiad**
- Dates: 5th – 14th September, 2011.
- Venue: Department of Earth Science of Modena and Reggio Emilia University, Modena, Italy.
- Convenor: Roberto Greco
- Number of participating countries: 34
- Chair of the IESO Advisory Committee: Sylke Hlawatsch
- Chair of the IESO Coordinating Committee: Moo Young Song

**6th Earth Science Education Olympiad**
- Dates: 8-12 October 2012
- Venue: Argentina
- Convenor: Jose Selles Martinez
- Theme: Energy, Water and Minerals for Sustainable Development
- Number of participating countries: 18
- Chair of the IESO Advisory Committee: Sylke Hlawatsch
- Chair of the IESO Coordinating Committee: Moo Young Song

**7th Earth Science Education Olympiad**
- Dates: 11-19 September
- Venue: Mysore, India
Convenor: Shankar Rajasekhariah
Theme: The Earth is indeed a family
Number of participating countries: 27
Chair of the IESO Advisory Committee: Sylke Hlawatsch
Chair of the IESO Coordinating Committee: Sylke Hlawatsch

8th Earth Science Education Olympiad
Dates: 22-29 September 2014
Venue: Santander, Spain
Convenor: Shankar
Theme: Sea and Mountains
Number of participating countries: 24
Chair of the IESO Advisory Committee: Shankar Rajasekhariah
Chair of the IESO Coordinating Committee: Shankar Rajasekhariah

9th Earth Science Education Olympiad
Dates: 13-20 September 2015
Venue: Poços de Caldas, Brasil
Convenor: Marcelo Bregagnoli
Theme: Soil
Number of participating countries: 27
Chair of the IESO Advisory Committee: Shankar Rajasekhariah
Chair of the IESO Coordinating Committee: Shankar Rajasekhariah
The International Union of Geological Sciences (IUGS) Commission on Geoscience Education and Technology Transfer (COGE)

The Commission was formed in November, 2004 in Boulder, Colorado with the following membership:

- Gary Lewis - Commission chairperson (Geological Society of America - USA)
- Wesley Hill - Commission secretary and treasurer (Geological Society of America - USA)
- Chan-Jong Kim (Seoul National University - South Korea)
- Greg McNamara (Geological Society of Australia - Australia)
- Alan Morgan (Waterloo University - Canada)
- Chris King (Keele University - United Kingdom)
- Hans Albert Dahlheim (Germany)
- Ian Clarke (University of Adelaide - Australia)


Membership from 2011:

- Jesús Martínez Frías - Chair (Spanish National Research Council, Spain)
- Chris King – Vice Chair (Kelee University - United Kingdom)
- Jennifer Nocerino (Secretary/Treasurer – Geological Society of America)
- Miguel Cano (Bicol University - Philippines)
- Ian Clarke (University of Adelaide - Australia)
- Ochir Gerel Mongolian University of Science & Technology, Mongolia)
- Chan-Jong Kim (Seoul National University - South Korea)
- Gary Lewis (Geological Society of America)
- Greg McNamara (Geological Society of Australia - Australia)
- Alan Morgan (Waterloo University - Canada)
- Adriana Niz (National University of Catamarca, Argentina)
- R Shankar (Mangalore University - India)
- Ashvin Wickramasooriya (South Eastern University of Sri Lanka)

Membership in 2016:

- Jesús Martínez Frías - Chair (Spanish National Research Council, Spain)
- Chris King – Vice Chair (Kelee University - United Kingdom)
- Jennifer Nocerino (Secretary/Treasurer – Geological Society of America)
- Miguel Cano (Bicol University - Philippines)
- Ian Clarke (University of Adelaide - Australia)
- Ochir Gerel Mongolian University of Science & Technology, Mongolia)
- Chan-Jong Kim (Seoul National University - South Korea)
- Gary Lewis (Geological Society of America)
- Greg McNamara (Geological Society of Australia - Australia)
- Alan Morgan (Waterloo University - Canada)
- Adriana Niz (National University of Catamarca, Argentina)
- R Shankar (Mangalore University - India)
- Ashvin Wickramasooriya (South Eastern University of Sri Lanka)
- Kmar Ben Ismail - Lattrache (University of Tunis El Manar, Tunisia)
- Yamina Bourgeoini (Cadi Ayyad University, Morocco)
- Elyvin Nkhonjera (Community Improvement Project, Malawi)

The latest website can be found at: [http://www.iugscoge.com/](http://www.iugscoge.com/) and is still hosted by Greg McNamara.
Note: This series of histories is the best recollections of some of those involved. Please email any corrections or updates to the Webmaster.