

## INTERNATIONAL UNION OF GEOLOGICAL SCIENCES (IUGS)

### Reporting Form for IUGS Affiliated Organizations 2015

#### 1. Name of Affiliated Organization

**IAPG – INTERNATIONAL ASSOCIATION FOR PROMOTING GEOETHICS**

<http://www.geoethics.org/>

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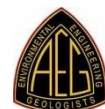
The IAPG is legally recognized by the Italian Republic through a public notarial deed on 21<sup>st</sup> December 2012, repertoire no. 16255, collection no. 8340.

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The IAPG is an affiliated organization of the **International Union of Geological Sciences (IUGS)**, an International Associate Organization of the **American Geosciences Institute (AGI)**, an Associate Society of the **Geological Society of America (GSA)**, an Associated Society of the **Geological Society of London (GSL)**.



The IAPG has agreements of collaboration with: **EuroGeoSurveys (EGS)**, **European Federation of Geologists (EFG)**, **American Geophysical Union (AGU)**, **Association of Environmental & Engineering Geologists (AEG)**, **International Geoscience Education Organisation (IGEO)**, **African Association of Women in Geosciences (AAWG)**, **African Network for Geo-Education (ANGE)**.



## 2. Overall objectives

The IAPG is a multidisciplinary, scientific platform for widening the discussion and creating consciousness about problems of Ethics applied to the Geosciences, in particular on the ethical, social and cultural implications of Earth Sciences education, research and practice. Its overall objectives are:

- developing the discussion on ethical implications in research and practice of Geosciences among geoscientists and in the society, making Geoethics an essential point of reference for any action on the land, waters and atmosphere usage that all stake-holders and decision-makers have to take into proper account;
- increasing the base research on Geoethics and strengthening it from the scientific point of view;
- promoting Geoethics values and principles through international cooperation, encouraging the involvement of geoscientists belonging to low income countries;
- fostering the dissemination of Geoethics through websites and social networks, the publication of scientific papers, the organization of meetings and sessions/symposia on Geoethics within national and international scientific events;
- encouraging the establishment of both regional and specialty groups;
- cooperating with national and international organizations whose aims are complementary to those of the IAPG.

The achievement of the IAPG objectives will lead to the:

- identification of methods for a more effective application of Geoethical principles in geological practice and research;
- reflection on the role that geoscientists can have in society and the identification of suitable forms, positions, means and actions to be adopted by them;
- growth of awareness about our responsibility, both as Geoscientists and as members of the civil society;
- the involvement of the community in the idea of a common and shared “geo-heritage”, to be considered as a cultural, educational and scientific value, as well as a social capital;
- a cultural renewal in the way we perceive and relate to our Planet;
- the sensitization towards the defense of life and the richness of the Earth.

## 2. Relate goals to overall IUGS scientific objectives

The IAPG goals are strongly related to the IUGS’s aims. This is evident by comparing the IUGS and IAPG Constitutions. The IAPG activities aim to develop thoughts and to find best practice solutions regarding global issues (like climate, geohazards, earth resources and geoeducation) with a goal to sustain Earth’s natural environment, to use all natural resources wisely, and to mitigate the impacts of geohazards for the benefit of society in the attainment of their economic, cultural and social goals. Moreover, the IAPG is involved in promoting geo-education in the widest sense, facilitating interaction among geoscientists from all parts of the world and encouraging international cooperation, and fostering the dissemination of Geoethics themes in the society.

### 3. Structure and organization

The bodies of the Association are the:

- 1) Executive Council;
- 2) General Assembly.

The Executive Council consists of:

- a) one President (Prof. Stefano Tinti);
- b) two Vice-Presidents (Prof. Susan Kieffer; Dr. Shrikant Limaye)
- c) one Secretary General (Prof. Silvia Peppoloni);
- d) one Treasurer (Dr. Giuseppe Di Capua);
- e) six Continental Coordinators (Dr. Peter Bobrowsky, Prof. Roberto Greco, Dr. Elizabeth Silva, Prof. Ezzoura Errami, Dr. Meng Wang, Dr. Margaret Brocx).

The General Assembly is composed of all the members of the IAPG. Currently the IAPG network has reached more than 860 members from 100 countries on 5 continents.

The IAPG is also present in 17 countries with national sections (coordinators among brackets): **Argentina** (Dr. Elizabeth I. Rovere and Dr. Roberto A. Violante), **Brazil** (Prof. Eduardo Marone), **Canada** (Prof. Anne-Marie Ryan), **Democratic Republic of Congo** (Dr. Jean-Robert Mweze), **Egypt** (Dr. Kholoud M. Abdelmaksoud), **Greece** (Dr. Gerassimos A. Papadopoulos), **India** (Dr. Surya Gupta Parkash), **Iraq** (Prof. Saleh A. Lazam and Dr. Nawrass N. Ameen), **Italy** (Prof. Silvia Peppoloni), **Jordan** (Prof. Mamoon Allan), **Malawi** (Dr. Hilton Banda Eneya), **Nigeria** (Dr. Arinze Harrison Ikwumelezech), **Peru** (Dr. Sandra Paula Villacorta Chambi), **Portugal** (Prof. Clara M. da Silva de Vasconcelos and Dr. António J. Correia de Almeida), **Spain** (Dr. Emilia H. Lopera Pareja and Prof. Domingo A. Martín Sánchez), **Ukraine** (Prof. Yuriy Kostyuchenko), and **USA** (Prof. Vincent S. Cronin and Prof. Cindy M. Palinkas).

In 2015, the IAPG has enlarged its board of experts ("**Corresponding Citizen Scientist**" - CCS) on specific issues related to geoethics. The CCS has the important cultural function of stimulating our community with papers or news. The CCS is interested in Earth sciences and humanities and in promoting issues on geoethics and the IAPG. Current the board can count on 7 CCSs: Martin Bohle, Belgium (topic: **Interdisciplinary explorations for main-streaming interest in Earth sciences topics**); Tony Mayer, Singapore (topic: **Research Integrity**); Madhumita Das, India (topic: **Geoethical aspects in low income countries**); Nic Bilham, United Kingdom (topic: **Geoscience communication**); Ciro Manzo, Italy (topic: **Geoethics and young geoscientists**); David Mogk, USA (topic: **Geo-education and Teaching Geoethics**); Luis González de Vallejo, Spain (topic: **Geoethics in Engineering Geology**).

In 2015, the IAPG has created the **Young Scientists Club (YSC)**. The YSC is the interface between the IAPG and young geoscientists' organizations and groups, in order to promote geoethics and the IAPG among the youngest colleagues more effectively. Members of the YSC have to be members of the IAPG and their age less than 35 years old. Dr. Marie Charrière, Switzerland, is the YSC Chair. The board of the YSC will be nominated by December 2015 after a public call expired on October 2015.

### 4. Interaction with other International organizations and projects

The IAPG collaborates with the following:

- African Association of Women in Geosciences (AAWG);

- African Geoparks Network (AGN);
- African Network for Geo-Education (ANGE).
- American Geophysical Union (AGU);
- American Geosciences Institute (AGI);
- Association of Environmental & Engineering Geologists (AEG);
- EuroGeoSurveys (EGS);
- European Association for the Conservation of Geological Heritage (ProGEO);
- European Federation of Geologists (EFG);
- European Geosciences Union (EGU);
- Geological Society of America (GSA);
- Geological Society of London (GSL);
- Geology for Global Development (GfGD);
- Global Geoscience Professionalism Task Group (IUGS-TGGGP);
- International Geoscience Education Organisation (IGEO);
- International River Foundation (IRF);
- International Association of Hydrogeologists (IAH);
- Italian Council of Professional Geologists (CNG-Consiglio Nazionale dei Geologi);
- Italian Geological Society (SGI-Società Geologica Italiana);
- Science Education Resource Center (SERC);
- Young Earth-Scientists (YES) Network.

## 5. Chief products

### Volumes

- Book: Peppoloni S. and Di Capua G. (Eds.). *Geoethics: the Role and Responsibility of Geoscientists*. Geological Society, London, Special Publications, (2015), 419, ISBN 978-1-86239-726-2. <http://sp.lyellcollection.org/content/419/1>.
- Book: Wyss M. & Peppoloni S. (Eds.). *Geoethics: Ethical Challenges and Case Studies in Earth Sciences*. 450 p. Elsevier (2014). <http://store.elsevier.com/Geoethics/isbn-9780127999357/>.
- Book: Lollino G., Arattano M., Giardino M., Oliveira R., Peppoloni S. (Eds.). *Engineering Geology for Society and Territory - Volume 7: Education, Professional Ethics and Public Recognition of Engineering Geology*. XVII, 274 p. 103 illus., 86 illus. in color., Springer (2014). <http://www.springer.com/earth+sciences+and+geography/environmental+science+%26+engineering/book/978-3-319-09302-4>
- Special volume: Peppoloni S. and Di Capua G. (Eds.). *Geoethics and geological culture. Reflections from the Geoitalia Conference 2011*. Annals of Geophysics, Vol. 55, No 3 (2012). <http://www.annalsofgeophysics.eu/index.php/annals/issue/view/482>.

### Videos

- 7 videos uploaded on the YouTube channel of the IAPG: <http://www.youtube.com/user/iapgeoethics>
- 3 interviews to the IAPG President, Secretary General and IAPG members:
  - for the Austrian Radio (ORF1) program on Geoethics: "Dimensionen - die Welt der Wissenschaft: Was soll ich tun - global gesehen? Die Ethik in den Geowissenschaften" ("Dimensions - the world of science: What should I do - a global perspective? The Ethics in the geosciences"), by Wolfgang Däuble: <http://oe1.orf.at/programm/404157>
  - for the Italian Radio Television Network (RAI). The interview begins from 16m 30s: <http://www.raiscuola.rai.it/articoli/nautilus-seguendo-il-tempo/26025/default.aspx>;
  - for the Science Festival in Genoa (Italy):

Part 1 [https://www.youtube.com/watch?v=Xt0\\_Z6mAGeI&list=UUP-Fngse1pu9sFvyBgN3AzQ](https://www.youtube.com/watch?v=Xt0_Z6mAGeI&list=UUP-Fngse1pu9sFvyBgN3AzQ)

Part 2 <https://www.youtube.com/watch?v=M2aYspo0p5Y&feature=youtu.be>

Many scientific papers on Geoethics have been included in the books mentioned above. More than 110 papers on Geoethics (with a peer-review process) have been published since 2012.

Orals and Posters have been given in scientific sessions or course at the EGU General Assembly (2012, 2013, 2014, 2015), Geoitalia conference (2013), IAEG Congress (2014), GSA Annual Meeting (2014, 2015), AGU Fall Meeting (2014, 2015), 3rd WCRI (2013, 2015), AGU-GAC-MAC-CGU Joint Assembly (2015), EFG Workshop (2014), Foro Internacional sobre Gestión del Riesgo Geológico - International Forum on Geological Risks Management (2015), First Colloquium on Geoethics in Peru (2015), First conference of the African Association of Women in Geosciences Nigeria (2015), OTC Conference (2014), SERC workshop in Montana (2014), AEG course in Texas (2014), CNG course in Palermo (2014), Science Festival in Genoa (2013, 2014).

#### Website and social networks

- Official Website: <http://www.geoethics.org>
- Blog: <http://iapgeoethics.blogspot.com>
- LinkedIn Group “Geoethics and Culture of Geosciences” (768 members): [http://www.linkedin.com/groups/Geoethics-Culture-Geosciences-4615518?gid=4615518&trk=hb\\_side\\_g](http://www.linkedin.com/groups/Geoethics-Culture-Geosciences-4615518?gid=4615518&trk=hb_side_g)
- Facebook Page (: <http://www.facebook.com/pages/International-Association-for-Promoting-Geoethics-IAPG/102926009863246>
- Twitter Page (@IAPGeoethics) (964 followers): <https://twitter.com/IAPGeoethics>
- Global Ethics Network: <http://www.globalethicsnetwork.org/group/iapgeoethics>
- Other IAPG national sections webpages at: <http://www.geoethics.org/sections.html>

Thousands of posts have been published in the IAPG webpages, regarding articles, news, call for abstracts, meetings-conferences, seminars, events and other kind of information on Geoethics.

#### Webinar and Video-Lectures

- Video-Lecture on Geoethics at the First National Conference of the African Association of Women in Geosciences Nigeria - AAWGN, June 2015). Video at <https://www.youtube.com/watch?v=f-ki8cwP8bk>.
- Organization of a webinar on Geoethics at the EGU General Assembly 2013. Video at [http://www.egu2013.eu/nh9\\_8\\_video.html](http://www.egu2013.eu/nh9_8_video.html). In collaboration with YES-Network and AGI – American Geological Institute.

#### Newsletter

IAPG releases a Newsletter from May 2015. 6 numbers have been published and are downloadable at: <http://www.geoethics.org/newsletter.html>.

## **6. Chief accomplishments 2015 and plans for 2016**

### Chief accomplishments 2015

- The IAPG attends the 68th Executive Committee meeting of the IUGS - International Union of Geological Sciences in Vancouver (Canada) and presents its 2014 activities report (January).
- New Corresponding Citizen Scientists: Das M. (Geoethical aspects in low income countries),

Nic Bilham (Geoscience communication), Ciro Manzo (Geoethics and young geoscientists), (January).

- Opening of the sections IAPG-Portugal (February).
- IAPG gives an invited speech on Geoethics at the Forum on Georisks in Turin (Italy) (February).
- Memorandum of Agreement (MoA) between IAPG and ANGE - African Network for Geo-Education (February).
- Opening of the sections IAPG-Greece (March).
- The IAPG is recognized as an Associate Society of the GSA - Geological Society of America (March).
- New Corresponding Citizen Scientists: David Mogk (Geo-education and Teaching Geoethics), Luis González de Vallejo (Geoethics in Engineering Geology) (March).
- The IAPG attends the 38th General Meeting of the EGS - EuroGeoSurveys and gives a speech on Geoethics and the IAPG network (March).
- Agreement on Collaboration (MoA) between IAPG and EGS - EuroGeoSurveys (March).
- IAPG Session EOS8 "Geoethics for society: general aspects and case studies in geosciences" at the EGU - General Assembly 2015: 12 Orals and 29 Posters (April).
- IAPG Session ED42A "How Do We Build a Healthy Geoscience Community That Better Serves Society?" (7 Orals) and Workshop "Teaching Geoethics in Undergraduate Science Programs" at the AGU-GAC-MAC-CGU Joint Assembly 2015 (May).
- Interviews to IAPG members for the Austrian Radio (ORF1) program on Geoethics: "Dimensionen - die Welt der Wissenschaft: Was soll ich tun - global gesehen? Die Ethik in den Geowissenschaften" ("Dimensions - the world of science: What should I do - a global perspective? The Ethics in the geosciences") (May).
- Opening of the sections IAPG-Spain (May).
- Geoethics included in the European Project ENVRI-Plus: Theme 4 "Societal relevance and understanding" - Work Package 13 "Developing an Ethical Framework for Research Infrastructures" (WP Leader: Silvia Peppoloni, IAPG Secretary General).
- Agreement of Co-operation between IAPG and IGEO - International Geoscience Education Organisation (May).
- The IAPG released the first number of its Newsletter (<http://www.geoethics.org/newsletter.html>) (May).
- The IAPG presents two papers at the 4th World Conference on Research Integrity (WCRI) in Rio de Janeiro (Brazil) (May-June).
- The IAPG gives a video-lecture at the First conference of the African Association of Women in Geosciences Nigeria (AAWGN) (June).
- The IAPG co-organizes the MINERLIMA 2015 ("Primera Feria Internacional de Minerales y Fósiles en el Perú" - First International Exhibition of Minerals and Fossils in Peru) in collaboration with the Geological Society of Peru and the Peruvian Chapter of the YES Network (June).
- Opening of the sections IAPG-Iraq and IAPG-Egypt (June).
- New IAPG Publication released for free download: *Peppoloni S. (Ed.). Sharing ethical principles through cultural diversity. Translations of the Montreal Statement on Research Integrity in Cross Boundary Research Collaborations, May 2015, International Association for Promoting Geoethics* (June).
- Publication of the new IAPG website at <http://www.geoethics.org>. The old website at <http://www.iapg.geoethics.org> is no more updated, even if still accessible (June).
- For the Ocean Day, IAPG-Brazil organizes a round table discussing the Ocean Governance, Ocean Sciences and Geoethics themes (June).
- Opening of the Young Scientists Club (YSC) of the IAPG (July).

- Opening of the sections IAPG-Argentina and IAPG-Nigeria (July).
- IAPG launches the call for 2 symposia on Geoethics at the 35th IGC - International Geological Congress. One of the symposium is a joint event IAPG - GSL (Geological Society of London) - EFG (European Federation of Geologists) - EGS (EuroGeoSurveys) (August).
- New IAPG book on Geoethics published in the Lyell Collection of the Geological Society of London: *Peppoloni Silvia and Giuseppe Di Capua (Eds.). Geoethics: the Role and Responsibility of Geoscientists. 2015, Geological Society, London, Special Publications, 419. ISBN 978-1-86239-726-2* (September).
- New IAPG Publication released for free download: *Allan M. Concepts related to Geotourism (tourism with a geological purpose) – English and Arabic Version. September 2015, International Association for Promoting Geoethics - Jordan section* (September).
- The IAPG launches the call for a Symposium on Geoethics in Spain that it has proposed for the first time at the IX Congreso Geológico de España (Geological Congress of Spain) on September 2016 (September).
- The IAPG is a formal signatory of the "*Consensus Statement Regarding Access and Inclusion of Individuals Living with Disabilities in the Geosciences*", by AGI (American Geosciences Institute) (September).
- Agreement on Cooperation between IAPG and AAWG - African Association of Women in Geosciences (September).
- IAPG gives a Special Lecture on “Tools and Technologies for Capacity Enhancement to Reduce Landslides Risks and Promote Community Resilience” at the International Conference on Landslides and Slope Stability (SLOPE 2015) in Bali (Indonesia) (September).
- The IAPG co-organizes the "First Colloquium on Geoethics in Peru" with the SGP - Peruvian Geological Society (Sociedad Geologica del Perú) in Lima (Peru). The IAPG gives two invited speeches on Geoethics (October).
- The IAPG gives a Lectio Magistralis on Geoethics at the Foro Internacional sobre Gestión del Riesgo Geológico (International Forum on Geological Risk Management) in Arequipa (Peru). The IAPG patronizes this event (October).
- The IAPG organizes a seminar on Geoethics at the Department of Geosciences of the University of Colombia in Bogotá.
- The IAPG is recognized as an Associated Society of the Geological Society of London (October).
- IAPG seminar on "Geoethics in Landslides Management" at the National Institute of Disaster Management in New Delhi (India) during the meeting of the IAPG-India members (October).
- The proposal for a new special Volume of the International Journal "Annals of Geophysics" entirely dedicated to Geoethics is accepted (October).
- Agreement on Cooperation between IAPG and AEG - Association of Environmental & Engineering Geologists (October).
- IAPG seminar on "Geoethics in Education and Research" at the National Institute of Disaster Management in New Delhi (India) (November).
- IAPG session "T72. Ethics of Geoscience in Practice and Application" at the GSA Annual Meeting 2015 in Baltimore (USA): 15 Orals (November).
- Memorandum of Understanding (MoU) between IAPG and AGU - American Geophysical Union (November).
- IAPG seminar on "Geoethics in Disaster Management" at the National Institute of Disaster Management in New Delhi (India) (December).
- IAPG session "ED13E. Geoethics and Critical Thinking in Undergraduate Geoscience Classes" at the AGU Fall Meeting 2015 in San Francisco (USA) (December).
- In 2015 IAPG-Brazil has performed an in-deep reformulation of curricula of undergraduate

training courses of the International Ocean Institute (IOI), introducing the first specific course on Geoethics in Brazil.

### Plans for 2016

- Editorial projects with peer-review process:
  - Special Volume: Peppoloni S. & Di Capua G. (Eds). Geoethics. Annals of Geophysics. In preparation.
- International conferences/meetings:
  - IAPG session at the 2016 Ocean Sciences Meeting (OSM) in New Orleans (USA): ID#9330 "Ethical principles and practices in the Ocean Sciences" (February).
  - IAPG session at the EGU – General Assembly 2016 in Vienna (Austria): EOS5 “Geoethics: theoretical and practical aspects from research integrity to relationships between geosciences and society” (April).
  - IAPG sessions on Geoethics at the 35th IGC - International Geological Congress in Cape Town (South Africa): "Geoethics: general aspects and case-studies" (Theme: Global Geoscience Professionalism and Geoethics) and "Geoethical perspectives on meeting the resource needs of future generations" in collaboration with GSL - Geological Society of London, EFG - European Federation of Geologists, EGS - EuroGeoSurveys (Theme: Resourcing Future Generations) (August-September).
  - IAPG session on Geoethics at the 88° Congresso della Società Geologica Italiana (Italian Geological Society Congress) in Naples (Italy) (September).
  - IAPG symposium at the IX Congreso Geológico de España (IX Geological Congress of Spain) in Huelva (Spain): S6: "Geoética" (September).
- Other activities:
  - IAPG is partner of DESAME - Day of Earth Sciences in Africa and the Middle East 2016.
  - IAPG-Italy will give an invited speech on Geoethics at the 8th Conference of the African Association of Women in Geosciences (AAWG) (October).
  - IAPG-Italy will continue activities on Geoethics into the EU Project ENVRI-Plus "Common Operations of Environmental Research Infrastructures".
  - IAPG-Portugal will start activities on Geoethics in the EU Project "WISE - Widening Interdisciplinary Sustainability Education".
  - IAPG-Argentina will introduce Geoethics into courses in different organisations (Consejo Superior Profesional de Geología, Buenos Aires) and National Universities (La Plata, Río Cuarto, Catamarca), and will give talks on Geoethics in different institutions and associations.
  - IAPG-Nigeria is organizing an event on the topic "Observance of Geoethics in the exploration and production of oil and gas in Nigeria", where major stakeholders could converge to exchange knowledge, ideas on current concepts to reduce hazards in oil industry.
  - IAPG Spain will contribute to the courses "*Ethics and Values in Engineering*" and "*Towards Social Entrepreneurship and Service-Learning*", offered as optional at the Higher Technical School of Mine and Energy Engineering, and also available for the whole Polytechnic University of Madrid learning community.
  - IAPG-Spain will organize a seminar on Geoethics at the Faculty of Geological Sciences, Complutense University of Madrid.
  - IAPG-Spain will publish a chapter titled “Integrative learning towards social responsibility in teaching engineering” for the *Handbook of Research on Quality and Value Management in Higher Education*, edited by IGI Global.
  - IAPG-India has planned seminars on " Ground Water Ethics", "Geoethics in Hydrel Sector",



"Ethical Strategies for reducing risks from flash floods" and "Geoethics - Challenges and Opportunities in Landslides Management" at the National Institute of Disaster Management in New Delhi (India).

- IAPG-Peru is organizing a Conference on Geoethics at the INGEMMET - Instituto Geológico Minero y Metalúrgico of Perú.
- IAPG-Peru is organizing a Forum on Geoethics in the Peruvian Geological Society Congress.
- IAPG-Peru will organize the 2nd Edition of MINERLIMA "Feria Internacional de Minerales y Fósiles en el Perú" (International Exhibition of Minerals and Fossils in Peru).
- IAPG-Canada, IAPG-Italy, IAPG-USA are continuing to work for building a course on Geoethics that will help the geoscience education community to bring ethics education into the college curriculum for student geoscientists.
- IAPG-Brazil is continuing to work on the organization of a regular training course, which will include geoethics as its main core, relevant to ocean and coastal issues, together with the International Ocean Institute, and other relevant international organizations;
- IAPG-Italy and IAPG-Ukraine will continue in popularizing Geoethics through interviews and participations in science festivals;
- IAPG-Brazil, IAPG-Canada, IAPG-Iraq, IAPG-Italy, IAPG-Jordan, IAPG-Ukraine, IAPG-USA will teach principles of Geoethics in seminars and courses for students, professional geologists and researchers;
- IAPG-USA will work to organize geoethics symposia at meetings of professional society like AEG, AIPG, GSA, AGU and AAPG.
- IAPG-Italy will work to include Geoethics principles in research projects;
- IAPG-Italy and IAPG-USA will work on proposals for new editorial projects, with peer-review process, to strengthen Geoethics from a scientific point of view and to collect experiences and case-studies;
- IAPG will continue in spreading news, information, activities, initiatives on Geoethics through its webpages.