

# IAPG - INTERNATIONAL ASSOCIATION FOR PROMOTING GEOETHICS: LET'S TAKE STOCK OF THE SITUATION

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EOS4 "Geoethics: ethical, social and cultural implications of geoscience knowledge, education, communication, research and practice"



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## Abstract

The International Association for Promoting Geoethics (IAPG: http://www.geoethics.org) is an international, multidisciplinary and scientific platform for addressing ethical problems, dilemmas and solutions in Earth Sciences, promoting geoethical themes through scientific publications and conferences, strengthening the research base on geoethics, and focusing on case-studies as models for the development of effective and operative strategies.

It was founded in August 2012 to unite global geoscientists to raise the awareness of the scientific community regarding the importance of the ethical, social and cultural implications of geoscience research, education, and practice.

The network continues to grow with more than 1890 members in 124 countries, including 28 national sections. The results achieved are recognized by numerous international organizations, through affiliations, agreements of cooperation and partnerships.

Numerous publications, both books and articles, have been produced and promoted by IAPG to strengthen geoethics from a scientific point of view and establish a firm conceptual substratum. Several initiatives (sessions in congresses, participation in research projects, Geoethics Medal, Geoethics Day) encourage a wide participation of the scientific community in the discussion on geoethical topics. Documents (White Paper on Responsible Mining, the Cape Town Statement on Geoethics, the Geoethical Promise) were released to support the geoscience community in its path towards a more responsible practice of geosciences. Tools and products (courses, videos, interviews, webinars) have been delivered to guide and train geoscientists, as well as raise their ethical and social awareness.

# What is Geoethics

Geoethics is the research and reflection on those values which underpin appropriate behaviours and practices, wherever human activities interact with the geosphere. Geoethics deals with the ethical, social and cultural implications of Earth Sciences education, research and practice, and with the social role and responsibility of geoscientists in conducting their activities.

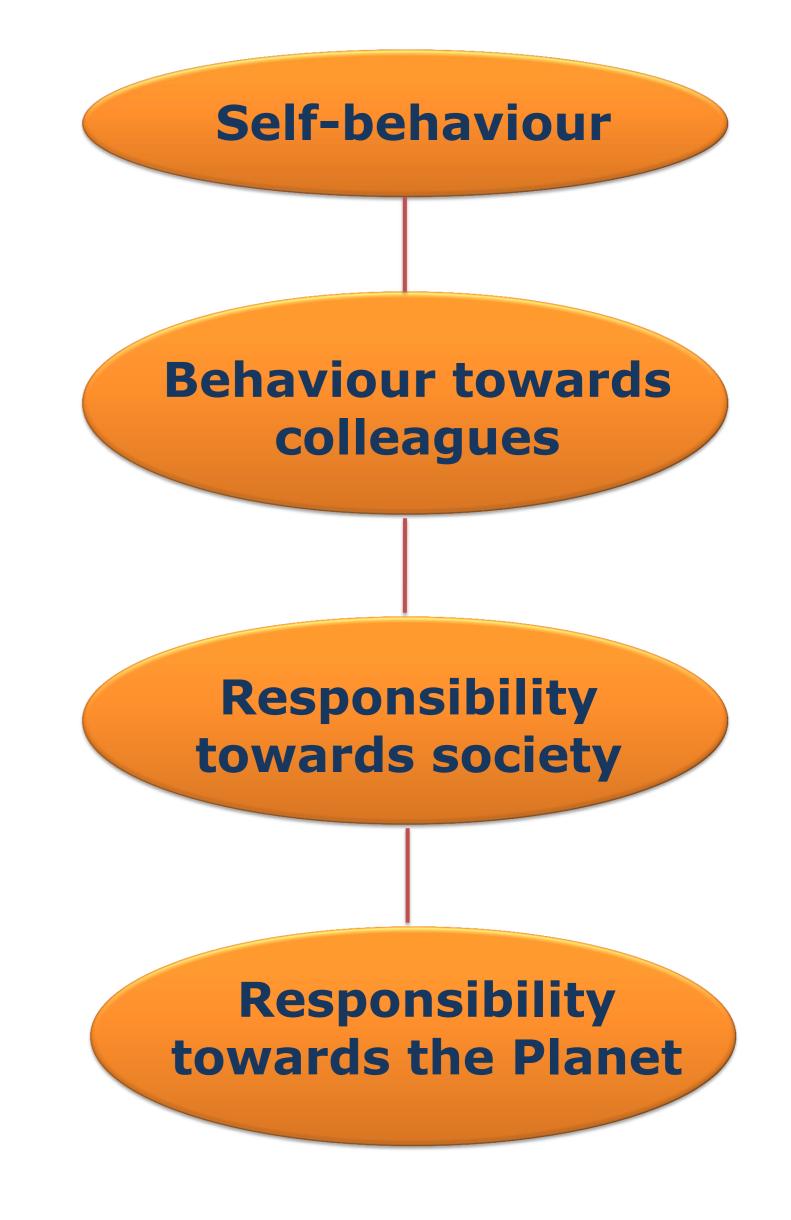


# What is IAPG

The IAPG is a multidisciplinary, scientific platform for widening the discussion and creating consciousness about problems of Ethics as applied to the Geosciences. The IAPG is a nongovernmental, non-political, non-party institution, free from racial, gender, religious or national prejudices

The IAPG is legally recognized as a not-for-profit association, has more than 1890 members in 124 countries in 5 continents, and can count on a network of 28 national sections

## The 4 Levels of Geoethics



Mogk et al. (2015). Teaching Geoethics Across the Geoscience Curriculum. Geophysical Research Abstracts, Vol. 17, EGU2015-7464.

## The IAPG Vision



Geoscientists more aware of the ethical and social implications of their activities, solutions, and decisions will be better able to transfer not only best practices but also best values to society and to contribute to create a knowledgeable society and a sustainable development for future generations.

# 1890 members



on 5 continents



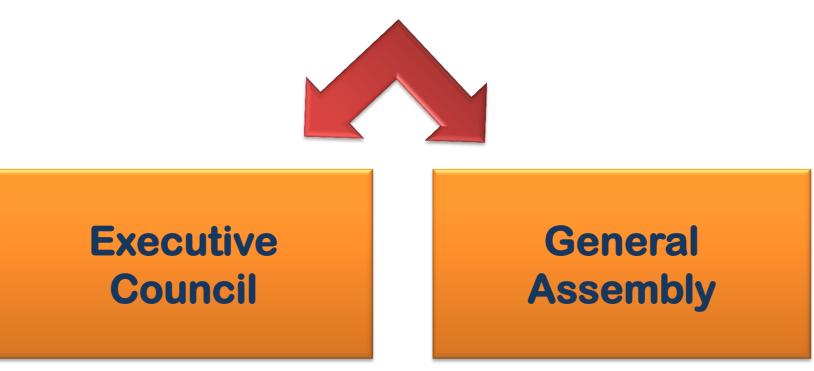
IAPG headquarter, c/o INGV, Rome, Italy

# The IAPG Mission



Promote geoethics values and principles through international cooperation; foster the dissemination of geoethics; increase the research base on geoethics; identify methods for its more effective application; reflect on the role that geoscientists can have in society; raise awareness about geoscientist's responsibility.

# **IAPG Main Bodies**



# The IAPG Strategy







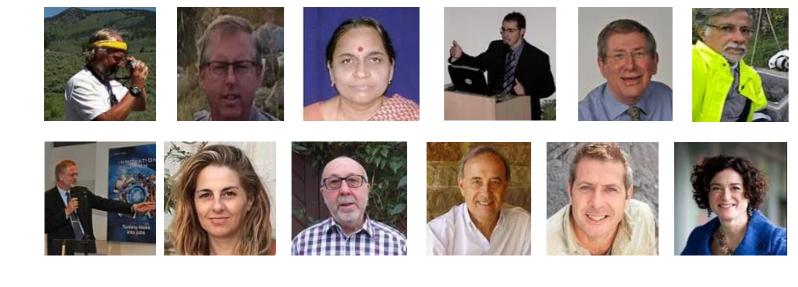


# Networking

#### **National Sections**



#### **Board of Experts**



- Geoethics in Groundwater Management **Manuel Florentino Gomes Abrunhosa**
- Geo-education and Teaching Geoethics **David Mogk**
- Geoethics and Philosophy **Robert Frodema**
- Geoethics and young geoscientists Ciro Manzo
- Geoethics in Engineering Geology Luis González de Vallejo
- Research integrity **Tony Mayer**
- Geoethics for Society **Edmund Nickless**

- **Geoethics and Geoparks Elizabeth Silva**
- Geoethical aspects in low income countries **Madhumita Das**
- Harassment and Discrimination in Geosciences **Christine McEntee**
- Geoscience Education and Communication **Iain Stewart**
- Interdisciplinary explorations for main-streaming interest in Earth sciences topics **Martin Bohle**

#### **Affiliations and Agreements**



IAPG promotes geoethics through the international cooperation with Associations, Organizations and Institutions

#### **Young Scientists Club (YSC)**

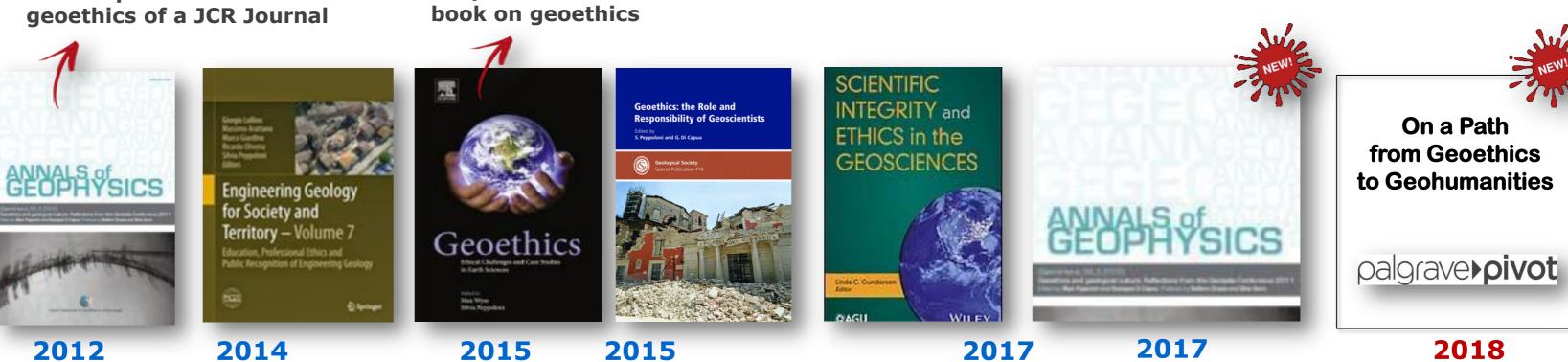




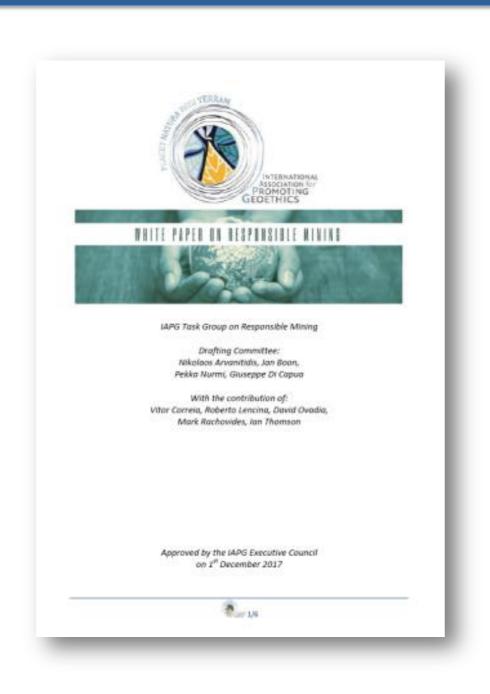
Become an IAPG member. No fees. Fill in the form: http://www.geoethics.org/membership-html

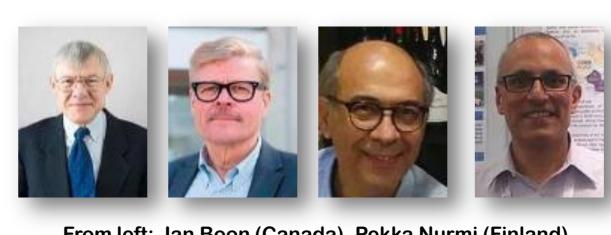
## Publications

1<sup>st</sup> Special Issue on 1<sup>st</sup> peer reviewed



# White Paper on Responsible Mining





From left: Jan Boon (Canada), Pekka Nurmi (Finland), Nikolaos Arvanitidis (Sweden), Giuseppe Di Capua (Italy)

... to draw up a framework of reference values and concepts in modern mining: efficient and prudent extraction and use of minerals; the impacts of mining minimization activities on environment, health and safety, local populations and cultures; development of innovative technologies / processes and eco-friendly / socio-friendly best practices.

## **Cape Town Statement on Geoethics**

SPREADING GEOETHICS THROUGH THE LANGUAGES OF THE WORLD

**Fundamental values of geoethics** and ethical duties of geoscientists

- **Translations in 35 languages**
- Supported by 18 geoscience organizations

"If you talk to a man in a language he understands, that goes to his head. If you talk to him in his language, that goes to his heart."

**Nelson Mandela** 

TRANSLATIONS OF THE CAPE TOWN STATEMENT ON GEOETHICS ENTIRE Skow Reprodut UPS Secretary General www.gooethics.org/ctog

# **Upcoming Events**



#### RESOURCES FOR FUTURE GENERATION CONFERENCE

Vancouver (Canada) ,16-21 June 2018

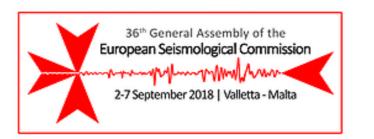
5 IAPG Sessions – 54 abstracts

Topics: georesources, georisks, research integrity, geoscience communication, education and citizen scientists, forensic geology



#### 89TH CONGRESS OF THE GEOLOGICAL SOCIETY OF ITALY Catania (Italy), 12-14 September 2018

IAPG joint session: "History of geosciences and Geoethics: the right way for social responsibility"



#### 36TH GENERAL ASSEMBLY OF THE EUROPEAN SEISMOLOGICAL COMMISSION

Valletta (Malta), 2-7 September 2018 IAPG supported session: Seismology and Society



#### 8<sup>TH</sup> GEOSCIED and 8<sup>TH</sup> ENSINOGEO

Campinas (Brazil), 22-27 July 2018

IAPG Partnership: Environmental Education, Education for **Sustainability and Geoethics** 

# **Geoethics Day**



... to reward scientists who have distinguished themselves in favor of applying / favouring / assuring ethical approaches in the practice of geoscience ...

# **Geoethics Medal**

... to raise the awareness of the geoscience community and society as a whole about the importance of ethical, social and cultural aspects of geoscience knowledge, research, practice, education and communication ...



### **Geoethical Promise**

On a Path

2018

... I will practice geosciences being fully aware of the societal implications, and I will do my best for the protection of the Earth system for the benefit of

... I understand my responsibilities towards society, future generations and the Earth for sustainable development. ... I will put the interest of society foremost in my work.

- ... I will never misuse my geoscience knowledge, resisting constraint or coercion. ... I will always be ready to provide my professional
- assistance when needed, and will be impartial in making my expertise available to decision makers. ... I will continue lifelong development of my geoscientific
- ... I will always maintain intellectual honesty in my work, being aware of the limits of my competencies and skills.
- ... I will act to foster progress in the geosciences, the sharing of geoscientific knowledge, and the dissemination
- of the geoethical approach. ... I will always be fully respectful of Earth processes in my
- work as a geoscientist.



# Participation in Projects



H2020 - Envri Plus Project



Erasmus Plus G.O.A.L. Project **Geoethics Outcomes and** 



**Awareness Learning** - INTERMIN **International Network of Raw** 



SMART EXPLORATION

**Materials Training Centres** 

 SMART Exploration Sustainable mineral Resources by utilizing new

exploration technologies

# **IAPG** Contribution to Official Documents





"Exploitation of Mineral Resources"





"Towards a Pollution-Free Planet"









"Harassment and Discrimination"



