



IAPGeoethics Newsletter n. 1 (2022)



This is the official newsletter of the IAPG.

It contains news about events, initiatives, publications on Geoethics by the IAPG.

The IAPG is a multidisciplinary, scientific community and aims at creating awareness about application of ethical principles to theoretical and practical aspects of Geosciences. The IAPG is affiliated to the IUGS - International Union of Geological Sciences, AGI - American Geosciences Institute, GSA - Geological Society of America, GSL - Geological Society of London, CFES - Canadian Federation of Earth Sciences, CIPSH - International Council for Philosophy and Human Sciences and has **25 agreements for cooperation and 5 partnerships** with national and international organizations all over the world.

The IAPG is legally recognized as a not-for-profit association, has 2,895 members in 127 countries on 5 continents, and can count on a network of **35 national sections**.

Send any kind of information about geoethics that could be published in the IAPG webpages to: iapgeoethics@aol.com

International Website: <https://www.geoethics.org>

Blog: <https://iapgeoethics.blogspot.it>

IAPG newsletter collection: <https://www.geoethics.org/newsletter.html>

Membership

Becoming an IAPG member is easy! Fill in the form in the IAPG website at <https://www.geoethics.org/membership.html>. No fee is required at this time.

Donations: <https://www.geoethics.org/donations>



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journal of **Geoethics and social Geosciences**



The "Journal of Geoethics and Social Geosciences" was born and is open access

The new journal: an international space for the discussion on the issues of geoethics and social geosciences.

Proposing articles on the ethical, social and cultural implications of geosciences, promoting study and research aimed at accompanying safe and sustainable development policies for human communities, providing transdisciplinary food for thoughts and defining proposals and actions aimed at addressing global anthropogenic changes: these are just some of the objectives of the recently launched "Journal of Geoethics and Social Geosciences" of the Istituto Nazionale di Geofisica e Vulcanologia (INGV: National Institute of Geophysics and Volcanology), Rome, Italy.

"Geosciences address numerous issues including defense against natural risks, research and use of georesources, and climate change. These themes have direct repercussions on the structures and processes of society and on people's lives", explains Silvia Peppoloni, researcher at INGV, Editor-in-Chief of the new journal and Secretary General of the International Association for Promoting Geoethics (IAPG). *"For this reason, the topics of interest for geosciences have also to be analyzed from new perspectives that include ethical, social, economic and political considerations".*

An increasing number of researchers from various disciplinary backgrounds are dedicating themselves to basic and applied research on the themes of interest for geoethics and social geosciences, with a growing publishing production of books and articles. Yet, there was no scientific journal entirely dedicated to these themes so far.

"To fill this gap", continues the researcher, *"INGV has promoted and supported the creation of an open access journal, without publication costs for both authors and readers, also open to contributions from those who work in the sector of human and social sciences in a pluridisciplinary perspective".*

The journal, published in English, employs an international team of experts in the fields of geoethics, social geosciences, and the philosophy of geosciences, with backgrounds in scientific, social and humanistic disciplines.

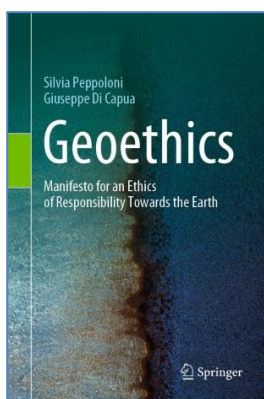
"Among the addressed topics, large space will be given to the responsible management of georesources, to ethical and social

aspects in geo-environmental education and in the communication of geosciences, but also to the philosophy of geosciences, the history of geological and environmental thought and the issues of the professional working environment, with particular attention to inclusiveness, diversity, harassment, discrimination and disability."

"The multidisciplinary nature of the contributions constitutes a necessary requisite to face the global anthropogenic changes that threaten the quality of life of present and future generations, from different points of view. The new journal proposes itself as an international reference point for ideas, reflections and proposals capable of analyzing crucial issues of our time from new perspectives", concludes Silvia Peppoloni.

The new journal is supported by the IAPG - International Association for Promoting Geoethics.

Website of the Journal of Geoethics and Social Geosciences



New book "Geoethics: Manifesto for an Ethics of Responsibility Towards the Earth" published by Springer

Peppoloni S. and Di Capua G. (2022). **Geoethics: Manifesto for an Ethics of Responsibility Towards the Earth**. Springer, Cham, XII+123 pp., ISBN 978-3030980436. <https://doi.org/10.1007/978-3-030-98044-3>

This book outlines the current development of geoethical thinking, proposing to the general public reflections and categories useful for understanding the ethical, cultural, and societal dimensions of anthropogenic global changes.

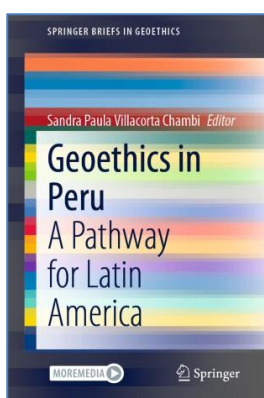
Geoethics identifies and orients responsible behaviors and actions in the management of natural processes, redefining the human interaction with the Earth system based on a critical, scientifically grounded, and pragmatic approach. Solid scientific knowledge and a philosophical reference framework are crucial to face the current ecological disruption. The scientific perspective must be structured to help different human contexts while respecting social and cultural diversity. It is impossible to respond to global problems with disconnected local actions, which cannot be proposed as standard and effective operational models. Geoethics tries to overcome this fragmentation, presenting Earth sciences as the foundation of responsible human action toward the planet. Geoethics is conceived as a rational and multidisciplinary language that can bind and concretely support the international community, engaged in resolving global environmental imbalances and complex challenges, which have no national, cultural, or religious boundaries that require shared governance. Geoethics is proposed as a new reading key to rethinking the Earth as a system of complex relationships, in which the human being is an integral part of natural interactions.

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- [Read more](#)
- [Download the book front matter \(pdf file\)](#)
- [This book on the Springer Link website](#)



New book "Geoethics in Peru" published in the SpringerBriefs in Geoethics series

Villacorta Chambi S.P., ed. (2022). **Geoethics in Peru - A Pathway for Latin America**. SpringerBriefs in Geoethics, Springer International Publishing, pp. XXIII+107. ISBN 978-3030867300. <https://doi.org/10.1007/978-3-030-86731-7>.

The book discusses geoscience issues in Peru from a geoethical perspective, based on the leading experience of the Peruvian section of the International Association for Promoting Geoethics, in its seven years of activity.

The introduction will present past and current activities to promote geoethics in Peru, such as the organization of the MinerLima exhibition (that has teaching purposes); the implementation of geoethics in georisk communication with vulnerable populations, as well as the promotion of adequate knowledge about national geological heritage.

The other chapters will describe the main geoethical issues in Peru, related to georisk management and communication, mining, paleontology and geoheritage, geoducation. Some proposals for actions that should be taken to improve societal awareness and to make progress in problem-solving from a geoethical perspective will be discussed for each issue.

In the final chapter Peruvian geoscience implications and new roles for geoscientists will be discussed, providing clues to their participation in the management of socio-environmental problems that affect Latin American region. It will be also underlined how geoethics represents a new theoretical and practical approach that may contribute in the current process to modernize geoscience education in Latin America.

In this sense, this publication provides a solid base to apply the theoretical framework of Geoethics in Peru that may be suggested as an example to promote geoethics in other Latin American countries. As a result, the need to inform and prepare the population of growing countries such as Peru to face the problems of the modern world is evident.

In order to attract more readers in Latin America, each chapter will be provided with a summary in Spanish.

- [Read more about this book in Springer Link](#)
- [Read the IAPG Forewords by Silvia Peppoloni and Giuseppe Di Capua, and by Roberto Greco](#)



Programme on Geoethics at the EGU General Assembly 2022

23-24 May 2022, Vienna (Austria)

IAPG co-sponsors numerous events at the next EGU General Assembly that will be held in hybrid version (on-site and virtual presentations) in Vienna (Austria) next week.

Here below the events (details about each event are available at <https://www.geoethics.org/egu2022>) that will take place on 23 and 24 May 2022:

- **Session EOS4.1: Geoethics in the face of global anthropogenic changes: how do we intersect different knowledge domains?**
24 May 2022, 13:20–16:34 (CEST), Room 1.14
Conveners: Silvia Peppoloni, Giuseppe Di Capua, John Ludden, Luiz Oosterbeek, Pimnutcha Promduangsri, Billy Williams
Chairpersons: Eduardo Marone, Pimnutcha Promduangsri
- **Session EOS1.8: Climate & ocean literacy: Helping people to care ethically within planetary boundaries**
24 May 2022, 17:00–18:30 (CEST), Room 1.14
Conveners: David Crookall, Giuseppe Di Capua, Bärbel Winkler, Mario Mascagni, Francesca Santoro
Chairpersons: Giuseppe Di Capua, Bärbel Winkler, David Crookall
- **Townhall Meeting TM8: Exploring the nexus of geoethics and climate change education**
24 May 2022, 19:00–20:00 (CEST), Room 1.14
Conveners: Giuseppe Di Capua, David Crookall, Bärbel Winkler, Eduardo Marone, Sabine Undorf, Sylvia Knight
- **Short Course SC4.1: Geoethics for Earth, Marine and Atmospheric Sciences**
23 May 2022, 13:20–14:50 (CEST), Room -2.61/62
Conveners: Eduardo Marone, Silvia Peppoloni

Details about each event are available at:
<https://www.geoethics.org/egu2022>



IAPG Declaration against war and authoritarianism for the affirmation of human freedom and dignity

Planet Earth, 26th February 2022

The International Association for Promoting Geoethics (IAPG) expresses its solidarity with all the people who are experiencing their present situation with difficulty and fear due to armed conflicts and who are suffering the repression of fundamental freedoms by authoritarian regimes.

We are close to colleagues from our section in Ukraine who are suffering from the invasion of their nation and are trying to resist the barbarism of war. We are also close to those Russian scientists and intellectuals who are courageously manifesting their rejection of war

and demanding the right to peace.

Likewise, we cannot forget our colleagues in Myanmar who are experiencing government repression and our colleagues in Afghanistan, including those of the local IAPG section, for the harsh living conditions in which freedom, health and safety are not guaranteed. We are also close to our colleagues in Yemen, in the Democratic Republic of Congo and in all those countries in which governments or groups of powers don't respect the fundamental Human Rights of United Nations.

The IAPG rejects war and oppression for the resolution of conflicts and supports all those who fight for the affirmation of human dignity and for freedom from the oppression of dictatorships and fundamentalisms.

We strongly affirm that all human beings must be guaranteed dignity, freedom and knowledge. Everyone has the right to be able to live in freedom, health and safety and at the same time has the duty to responsibly guarantee freedom, health and safety to other human beings.

We are convinced that power must be implemented as a responsible exercise of community service, for the construction of more just, equitable, inclusive, supportive, peaceful, sustainable and ecologically oriented societies.

The revival of nationalistic models is anachronistic and represents a real threat to humanity, which instead, precisely in the recognition of its unity, albeit in the diversity of the cultures that constitute it, is beginning to cultivate that feeling of planetary citizenship that can accompany it towards a future of solidarity.

We invite the international scientific community, geosciences organizations and beyond, to sign this declaration.

Support this declaration by sending an email to:
iapgeoethics@gmail.com

- **Signatories**



IAPG has a new Vice-President, Continental Coordinator for North America, IAPG-USA co-Coordinator

IAPG has a new Vice-President, Peter T. Bobrowsky. He replaces Susan Kieffer who decided to step down from this role. Previously, Peter was IAPG Continental Coordinator for North America. He is an engineering geologist specializing in natural hazards, mapping, sedimentology/stratigraphy, drift prospecting, aggregate studies and interests in geoethics, geoheritage, medical geology and forensic geology. Currently an Emeritus Scientist with the Geological Survey of Canada and Adjunct Professor at Simon Fraser University. Author/coauthor of some 500 publications. Former Vice President and Secretary General of IUGS, President of the International Consortium on Landslides, President of the Geological Association of Canada and President of the Canadian Quaternary Association. Currently an active supporter and contributor to "outreach and

education” he annually delivers dozens of lectures to various public groups around the world. Here the Curriculum Vitae of Peter.

We wish to thank Susan Kieffer for the valuable contribution to develop geoethics, to promote the IAPG and to manage the Association in its ten first years of living. She is our first Legendary Member.

IAPG has a new Continental Coordinator for North America, Vince Cronin. He replaces Peter Bobrowsky who was appointed as new IAPG Vice-President. Previously Vince was IAPG-USA co-Coordinator. Vince Cronin has been interested in geoethics since the 1980s when he worked on engineering geology projects under the supervision of former California State Geologist Dr. Jim Slosson. Cronin earned degrees in geology from Pomona College (AB, '79), Dartmouth College (AM, '82), and Texas A&M University (Ph.D., '88). For most of his career, he has been a tenured professor at the University of Wisconsin-Milwaukee and Baylor University. Professor Cronin and his students' diverse research included Himalayan geology, plate kinematics, geodesy, paleoseismology, neotectonics, and the identification of potentially dangerous seismogenic faults. He is the current editor of the AGI/NAGT Laboratory Manual in Physical Geology — widely used in the US.

Finally, IAPG has a new IAPG-USA co-Coordinator, David Mogk, who is also member of the IAPG Board of Expert for Geo-education and Teaching Geoethics. David is Professor of Geology and former Head of the Department of Earth Sciences, Montana State University. He is a metamorphic petrologist by training, with research interests in genesis and evolution of Archean continental crust, mid-crustal petrogenetic processes, and spectroscopy of mineral surfaces. He has worked in mineral exploration for precious, base and industrial minerals, and has also worked on environmental remediation of mine sites. For the past 25 years he has worked to promote excellence in geoscience education. He was program officer in NSF's Division of Undergraduate Education; Chair of GSA's Education Division; worked to establish the Digital Library for Earth Science Education and the National Science Digital Library; has been co-PI of the On the Cutting Edge Program for geoscience faculty professional development; has served on the EarthScope and EarthChem advisory boards; was a panelist on NRC Board On Science Education panels on Integrating Research and Education in Biocomplexity Projects, Promising Practices in STEM Education, and Discipline-Based Education Research; and is co-editor of GSA Special Paper volume on Earth and Mind: How Geologists Think and Learn About the Earth and Field Geology Instruction: Historical Perspectives and Modern Approaches. He is past chair of the U.S. National Committee for Geosciences to the IUGS where he worked to promote development of geoheritage sites. For the past decade he has led the initiative in the United States to promote Teaching Geoethics Across the Geoscience Curriculum including website development of Teaching Geoethics Across the Geoscience Curriculum: <https://serc.carleton.edu/geoethics/index.html>.

See the new IAPG Executive Council:
<https://www.geoethics.org/executive-council>



Welcome to IAPG-Germany

The section is officially established on 13 December 2021 and will work under the responsibility of Simon Schneider, left-top (Ludwig Maximilian University of Munich) and Dominic Hildebrandt, left-down (Ludwig Maximilian University of Munich and ETH Zurich).



The section is based at the Department of Earth and Environmental Sciences of the Ludwig Maximilian University of Munich.

IAPG-Germany is the 35th national section of our Association.

- [Read more](#)
- [Other IAPG national sections](#)



Call for abstracts: Session 10.2 "Geoethics – fostering ethical perspectives in Geosciences" at GeoMinKöln 2022

Deadline: 31 May 2022

Session 10.2 title:

Geoethics – fostering ethical perspectives in Geosciences

Conveners:

Dominic Hildebrandt (IAPG-Germany co-coordinator)

Simon Schneider (IAPG-Germany co-coordinator)

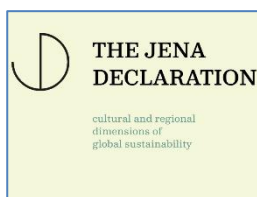
Martin Bohle (IAPG Board of Experts)

Session description: Geoethics is a dynamically evolving concept framing various kinds of ethical aspects of Geoscience activities. As an expression of critical thinking and taking responsibility, Geoethics is fundamental to all kinds of Geoscience subdisciplines, however raising different types of questions and problems depending on the specific context. Many of these are intimately linked to specialties of our discipline, e.g. its historically male-dominated character as well as a strong focus on field work. With this session we aim to provide a platform for current works featuring critical analysis of 1) geoscience history and its implications, 2) intra-scientific issues such as gender inequalities or racism, 3) working methods and their implications for the environment, research objects and local communities, 4) geoscientists' work at the interface to society, politics and other stakeholders including geocommunication and geoeducation. We encourage you to submit your work to our session even if your specific topic is not covered above, but has a geoethical dimension.

Submit your abstract:

<https://www.geominkoeln2022.de/call-for-abstracts.html>

Congress website: <https://www.geominkoeln2022.de/>



IAPG endorsed the Jena Declaration

The Executive Council of the IAPG decided to endorse the Jena Declaration (TJD).

The Jena Declaration (TJD) establishes guidelines and practices to accelerate progress to attain the United Nations Sustainable Development Goals (SDGs). It calls for enabling fundamental change in the everyday actions of hundreds of millions of people all over the world. Specifically, the declaration aims to stimulate more culturally-sensitive policies and programs that enhance, promote and facilitate grass roots movements that lie at the heart of such mobilization. By respecting cultural and regional diversities, the aim is to exceed the expectations of the UN SDGs before 2030, and to set the table for even greater success with each successive decade. The Jena Declaration was organized by the UNESCO-Chair on Global Understanding for Sustainability (University of Jena, Germany) in March 2021 and is available in English, Farsi, French, German, Hindi, Indonesian, Italian, Portuguese.

- [Read more](#)
- [Website of the Jena Declaration](#)



Geoethics Medal 2022: Call for nominations

The Geoethics Medal rewards scientists/scholars who have distinguished themselves in applying/favouring/assuring ethical approaches in the geoscience research and practice.

For the IAPG Geoethics Medal 2022 **nominations should be submitted by 30 September 2022**, by providing the following material about the candidate:

- A CV (about 1 page) and a list of up to 10 selected publications that show the focus on ethical/social/cultural implications in the geoscience work.
- A concise statement of achievements for merits in the geoethical field (no more than 250 words).
- A brief encomium of the candidate and his/her work (no more than 600 words).

Proposals have to be submitted through an email to: iapgeoethics@aol.com, with the subject "Nomination for the IAPG Geoethics Medal 2022".

Nominations will be evaluated by an international committee.

IAPG officers (Members of the Executive Council, Coordinators of National Sections, Corresponding Citizen Scientists, Members of Task Groups, Members of the Board of the Young Scientists Club) cannot be nominated for the Geoethics Medal.

Geoethics Medal recipients

2021: Sandra Villacorta (Peru) and Iain Hay (Australia)

2020: John Geissman (USA)

2019: Linda Gundersen (USA)

2018: Chris King (United Kingdom)

[Geoethics Medal website](#)



Video: "Ecological crisis and geosciences: the need for geoethics"

Giuseppe Di Capua (IAPG Treasurer and geologist at National Institute of Geophysics and Volcanology, Rome, Italy) contributed to the "State of the Planet" event organized by the IUGS - International Union of Geological Sciences within the initiatives to celebrate 60 years from the foundation of the IUGS (IUGS60) and the Earth Day 2022. He was speaker and panelist at that event.

He delivered a talk entitled "Ecological crisis and geosciences: the need for geoethics".

This event took place on 22 April 2022 - 2:00-4:30 pm (BST)

Video: <https://youtu.be/Qnh066e9VGM>

- [Download the flyer on this event \(pdf file\)](#)
- [Download the flyer on talks \(pdf file\)](#)
- [Download the flyer on panel \(pdf file\)](#)

This event on the IUGS and IUGS60 websites:

- <https://www.iugs.org/iugs60>
- <https://iugs60.org/state-of-the-planet/>

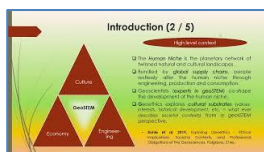


Video: "Responsible management of water: a resource that recalls us to dialogue"

Silvia Peppoloni (IUGS Councilor and IAPG Secretary General) gave a speech entitled "Responsible management of water: a resource that recalls us to dialogue" at the IUGS60 virtual event for celebrating the World Water Day 2022 on 22 March.

See the video at: <https://iugs60.org/world-water-day/>

- [Download the flyer \(pdf file\)](#)



Video: "Geoethics: Bridging geoSTEM and the social sciences"

Martin Bohle (IAPG Board of Experts) explains the concept of geoethics and why social scientists need to know about it in his talk "Geoethics: Bridging geoSTEM and the social sciences" at the Edgeryders seminar, held online on 22 March 2022.

Video: <https://youtu.be/fxvaTezYEZw>

- [Download the abstract \(pdf file\)](#)



Video: Silvia Peppoloni interviewed for the UN International Day of Women and Girls in Science

The International Union of Geological Sciences – IUGS (IUGS60 initiative) interviewed some women in geoscience, among them

Silvia Peppoloni (IAPG Secretary General), to celebrate the UN International Day of Women and Girls in Science on 11 February 2022.

Silvia is a geologist, researcher at the Italian National Institute of Geophysics and Volcanology (Istituto Nazionale di Geofisica e Vulcanologia), Rome (Italy).

Video at:

<https://iugs60.org/iugs-women-in-geoscience-event/>



Video: "4th Roundtable on Geoethics in Peru"

The "4^{ta} Mesa Redonda sobre Geoética en Perú" was organized by IAPG-Peru and took place online on 18 December 2022.

Video (in Spanish): <https://youtu.be/Z1OQPPWAeUo>

[Read more \(in Spanish\)](#)



IAPG is now partner of the Earth Future Festival (EFF)

The Earth Futures Festival aims to raise international awareness of the role of Earth Science (geoscience) in our sustainable future. Geoscience is key to understanding the relationships between the planet's physical and biological systems, human interaction with the environment and climatic impacts. It is essential to reaching the United Nations Sustainable Development Goals, plays a vital role in disaster risk reduction and is critical in achieving the Paris Climate Agreement. The festival is a global collaboration to showcase how geoscience is addressing current sustainability challenges through media, with a key focus on education, diversity and inclusion. The festival aims to educate and inspire others, create diverse role models, motivate positive global change and attract a diverse range of people towards both study and careers in the field of geoscience.

IAPG is partner of EFF from April 2022.

Website: <https://www.earthfuturesfestival.com/>

Video: <https://youtu.be/WJGXwfCNaxU>

- [Flyer](#)
- [Press release](#)



Peter Bobrowsky awarded by the IUGS

The IAPG - International Association for Promoting Geoethics is very happy for Peter Bobrowsky (IAPG Vice President) who received an award of the IUGS - International Union of Geological Sciences for his long and valuable service to the Union.

Congratulations Peter!

[Download the flyer \(pdf file\)](#)



Croatian Geological Society supports the Cape Town Statement on Geoethics and provided its translation in Croatian

Hrvatsko Geološko Društvo (HGD) (Croatian Geological Society) is the 28th geoscience organization that supports the Cape Town Statement on Geoethics. This important document contains the Geoethical Promise.

Thanks to Dr. Zoran Peh (HGD) the Cape Town Statement on Geoethics and the Geoethical Promise are now available also in Croatian. The Cape Town Statement on Geoethics is translated in 36 languages.

[Read more on the Cape Town Statement on Geoethics](#)



Keynote on Geoethics to face natural risks at NatHaz22

26 May 2022

Silvia Peppoloni (IAPG Secretary General) will give a keynote speech, entitled "Geoethics to face natural risks by improving societal resilience", at the International Workshop on Natural Hazards (NatHaz22) that will be held in Angra do Heroísmo, Terceira Island (Azores).

NatHaz22 website: <https://nathaz.azores.gov.pt/>

- **[Programme \(pdf file\)](#)**



Talk on Geoethics in Germany

28 May 2022 (2:30-2:50 pm CEST)

Dominic Hildebrandt will give a talk (in German), entitled "Geoethik – kritisches Denken der Problemlöser*innen von morgen" (Geoethics – critical thinking of problem solvers of tomorrow), in the framework of the Bundesfachschaftentagung in Halle an der Saale (Germany). The Bundesfachschaftentagung is a meeting, where student representatives in the Geosciences from Germany, Austria and Switzerland come together for several days to exchange thoughts on student affairs. This time the event is held together with the student representatives in Geography.



2nd Peruvian Conference on Geotechnics

26-27 May 2022

IAPG-Peru co-organizes this online event. Theme "Geological Engineering and Civil Engineering: Building the Future".

Website:

<https://iapgperuviansection.wixsite.com/2daconfpergeotec>



IAPG supports the Oxford Geoheritage Virtual Conference 2022

6-9 June 2022

The Oxford Geoheritage Virtual Conference (OxGVC) will be held online, is free to attend, and open to all!

"The first OxGVC of 2020 was setup in response to the cancellation of a number of meetings due to COVID-19. In 2022, the meeting returns, once again providing an online space for the discussion and promotion of all topics within geoheritage. We hope OxGVC will continue to bring together the geoheritage community, wherever you may be in the world."

This conference is supported by the Oxford University Museum of Natural History, the Charnwood Forest Geopark, ProGEO and the IAPG - International Association for Promoting Geoethics.

- [Abstract volume \(pdf file\)](#)

Website: <https://www.oxgvc.co.uk/>



IAPG supported the First Brazilian Meeting of Geoethics

The First Brazilian Meeting of Geoethics in Brazil (in Portuguese), was organized by the Geoethics Commission of the Brazilian Geological Society (SBGEO) and took place in virtual mode from 9 to 11 May 2022.

Clara Vasconcelos (IAPG-Portugal Coordinator) gave a lecture entitled "Geoethics in Education". Bárbara Zanbelli Azevedo (IAPG Early Career Scientists Team) was panelist in the debate "Geoethics, Mining and Water".

Lectures and debates were broadcasted on the Youtube channel of the Brazilian Society of Geology:

<https://www.youtube.com/c/SociedadeBrasileiradeGeologia>

- [Programme \(pdf file\)](#)



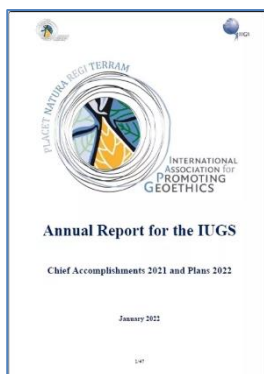
1st Peruvian Geoscience Olympiad

IAPG-Peru organized the 1st Geoscience Olympiad in Peru. The organizing committee was formed by Sandra Villacorta (General Coordinator), Luz Tejada, Judith Sullón and Claudia Sánchez. The Peruvian group of IAEG, IUGS-COGE and IGEO supported this initiative.

The Peruvian Geoscience Olympiad was held in April 2022.

Website:

<https://iapgperuviansection.wixsite.com/geolympiadperu>



IAPG Annual Report 2021 for the IUGS

The IAPG Annual Report 2021 for the IUGS - International Union of Geological Sciences is available for the download.

The report (47 pages) contains:

- Overall objectives of the IAPG
- Relate goals to overall IUGS scientific objectives
- How has the IAPG been actively involved with IUGS related activities
- Structure and organization of the IAPG
- Interaction with other international organizations and projects
- IAPG chief products
- IAPG chief accomplishments 2021 and plans for 2022

The IAPG annual report was prepared by Giuseppe Di Capua (IAPG Treasurer).

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- [IAPG Annual Reports](#)



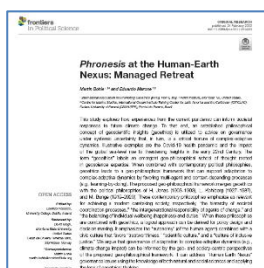
New article in Sustainability (open access)

Procesi M., Di Capua G., Peppoloni S., Corirossi M. and Valentinelli A. (2022). **Science and Citizen Collaboration as Good Example of Geoethics for Recovering a Natural Site in the Urban Area of Rome (Italy)**. *Sustainability*, 14(8), 4429. <https://doi.org/10.3390/su14084429>.

Abstract: Natural sites in urban spaces can have a key role in citizen well-being, providing fundamental ecosystem services to the population and assuring a multitude of benefits. Therefore, cities should guarantee a number of green areas and their conservation in time as an essential part of urban architecture. In this framework, cooperation between scientists, decision makers and citizens is critical to ensure the enhancement of green public spaces. Social and scientific communities are called to work in a tuned way to combine scientific knowledge and methods to local socio-economic contexts, driven by the values of geoethics. The Bullicante Lake case study, discussed in this work, represents an example of application of geoethical values, such as inclusiveness, sharing, sustainability and conservation of bio- and geodiversity. This urban lake in Rome appeared following illegal excavation works in 1992 and remained closed until 2016 favouring re-naturalization processes. Over time, this site was often threatened by pending actions for building. The aim of this study was to highlight how fruitful cooperation between science and citizens is able to transform a degraded urban area into a place of knowledge, recreation, enjoyment and eco-systemic preservation. Moreover, on the basis of this experience, the authors proposed a generalised approach/strategy to be developed and applied in other contexts. The active involvement of citizens and the cooperation among scientists, artists and institutions were able to redress opportunistic behaviours well by preventing site degradation and its improper use, favouring environmental safeguarding and making possible the site's recognition as a natural monument. The

results of these actions led to the improved quality of citizen life, showing an excellent example of virtuous cooperation between science and society.

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New article in Frontiers in Political Science (open access)

Bohle M. and Marone E. (2022). **Phronesis at the Human-Earth Nexus: Managed Retreat**. *Frontiers in Political Science*. <https://doi.org/10.3389/fpos.2022.819930>.

Abstract: This study explores how experiences from the current pandemic can inform societal responses to future climate change. To that end, an established philosophical concept of geoscientific insights (geoethics) is utilized to advice on governance under systemic uncertainty that, in turn, is a critical feature of complex-adaptive dynamics. Illustrative examples are the Covid-19 health pandemic and the impact of the global sea-level rise to threatening heights in the early 22nd Century. The term “geoethics” labels an emergent geo-philosophical school of thought rooted in geoscience expertise. When combined with contemporary political philosophies, geoethics leads to a geo-philosophical framework that can support adaptation to complex-adaptive dynamics by favoring multi-agent and context-depending processes (e.g., learning-by-doing). The proposed geo-philosophical framework merges geoethics with the political philosophies of H. Jonas (1903–1993), L. Kohlberg (1927–1987), and M. Bunge (1919–2020). These contemporary philosophies emphasize as relevant for achieving a modern caretaking society, respectively, “the hierarchy of societal coordination processes,” “the intergenerational responsibility of agents of change,” and “the balancing of individual wellbeing (happiness) and duties.” When these philosophies are combined with geoethics, a logical approach can be derived for policy design and decision-making. It emphasizes the “autonomy” (of the human agent) combined with a civic culture that favors “trustworthiness,” “scientific culture,” and a “culture of inclusive justice.” We argue that governance of adaptation to complex-adaptive dynamics (e.g., climate change impact) can be informed by the geo- and society-centric perspectives of the proposed geo-philosophical framework. It can address “Human Earth Nexus” governance issues using the knowledge of both natural and social sciences and applying the lens of geoethical thinking.

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New article in Geosciences (open access)

Handl S., Calheiros C.S.C., Fiebig M. and Langergraber G. (2022). **Educational Resources for Geoethical Aspects of Water Management**. *Geosciences*, 12(2), 80. <https://doi.org/10.3390/geosciences12020080>.

Abstract: Global water resources are a critical value for the future of humankind. Conflicts and wars seem to rise because of such critical resources. While water-scarce countries are under extreme pressure on the long-term scale, also water-rich countries in Europe, such as

Austria, face local conflicts of interest between water supply, tourism, agriculture, hydropower and ecology, for instance. Higher Education must address these conflicts and the new concepts of geoethics offer the conceptional thinking to do so. Based on educational resources for Higher Education that have been developed in the field of "Geoethics and Water Management" under the Erasmus+ co-funded project GOAL (Geoethics Outcomes and Awareness Learning), selected water-related conflicts are discussed. The cases selected for developing the educational resources are water use conflicts and geoethical aspects of hydropower plants. The educational resources include a subsequent procedure for applying them with students. Outcomes from the educational resources show that issues related to water management often create geoethical conflicts and dilemmas, and an interconnection between several Sustainable Development Goals can be established. Applying the educational resources shall enable geoscientists to contribute towards sustainable development of Earth's future by a more holistic view.

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New article in The Future of Science and Ethics (open access, in Italian)

Peppoloni S. and Di Capua G. (2021). **Geoetica: un'etica per la relazione tra gli esseri umani e la terra (Geoethics: an ethics for the relationship between humans and the Earth)**. *The Future of Science and Ethics*, 6, 42-53. <https://doi.org/10.53267/20210104>.

Abstract: Human beings live in a globalized society, dematerialized in its spatiality and temporality, technologized, increasingly homogenized in cultural forms and economic structures, with increased inequalities in the recognition of human rights and in the possibilities of self-determination and access to natural resources. The SARS-CoV-2 pandemic has highlighted the criticality and potential of the globalized society. Anthropogenic environmental changes, which modify the physical-chemical-biological characteristics of the Earth system, pose a similar if not more serious threat to the habitability of the planet by humanity and many other living species. Addressing such changes urgently requires strong international cooperation among States. At the same time, it needs that human communities share principles and values on which to base new forms of relationship between human beings and nature. In this perspective, geoethics is proposed as global ethics for a complex world, founded on the principles of dignity, freedom and responsibility.

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Short note in Nature correspondence

Di Capua G., Bohle M., Hildebrandt D., Marone E., Peppoloni S. & Schneider S. (2022). **Push for ethical practices in geoscience fieldwork**. *Nature*, 601, 26. <https://doi.org/10.1038/d41586-021-03837-0>.

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Articles from the IAPG Blog

<http://www.geoethics.org/articles-from-iapg-blog>



Human War and War against Nature: The latest IPCC Report and the Prospect of a Lost Conflict

(By Silvia Peppoloni, Italy)

"... every war is also a war between human beings and nature. ... There is no law, there are no rules. ... Its effects, extended over space and time, are insidious, altering, and irreversible."

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A Geo-philosophical Topic – Agency at the Human-Earth Nexus

(By Martin Bohle, Germany)

"... Methodologically it can be undertaken by enlarging the foundations of 'Cape Town Geoethics' with specific political and moral philosophies, which apply a realist-materialist scientific epistemology (Bunge, 2006) to understand the societal fabric, for example, describing differentials of power, voice, sense-making skills, group pressure or access to resources."

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Geomorphological heritage and beyond

(By Enrico Cameron, Italy)

"... The pros and cons of the proposed method and of the exclusion approach are of course open to debate, but perhaps it can be agreed that geoconservation should be further extended to everyday territories as much as ecological conservation cannot be identified anymore with protected areas only."

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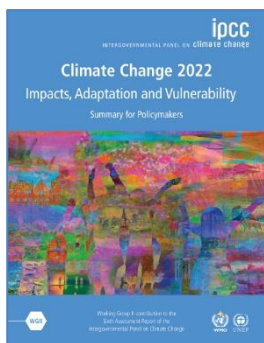
COP26 and Geoethics

(By Enrico Cameron, Italy)

"... Geoscientists should be at the forefront of providing evidence-based advice, yet seem strangely muted. Our ethics are about telling the truth, the whole truth and nothing but the truth, ..."

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Climate Change 2022: Impacts, Adaptation and Vulnerability

(Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)])

February, 2022

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