



IAPGeoethics Newsletter n. 2 (2021)

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 4 partnerships with national and international organizations all over the world.

The IAPG is legally recognized as a not-for-profit association, has 2,748 members in 129 countries on 5 continents, and can count on a network of **34 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: <http://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.

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



Website



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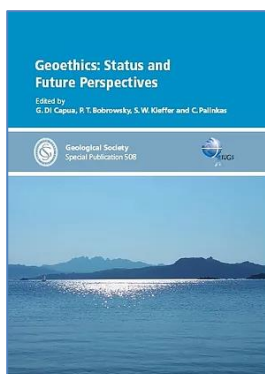


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New GSL book on geoethics

We are proud to inform that a new great book on geoethics (20 chapters, 34 authors) has been just printed:

*Di Capua G., Bobrowsky P.T., Kieffer S.W. and Palinkas C. (2021). **Geoethics: Status and Future Perspectives**. Geological Society, London, Special Publications, 508, <https://doi.org/10.1144/SP508>.*

This is the second volume focused on geoethics published by the Geological Society of London. This is a significant step forward in which authors address the maturation of geoethics. The field of geoethics is now ready to be introduced outside the geoscience community as a logical platform for global ethics that addresses anthropogenic changes. Geoethics has a distinction in the geoscientific community for discussing ethical, social and cultural implications of geoscience knowledge, research, practice, education and communication. This provides a common ground for confronting ideas, experiences and proposals on how geosciences can supply additional service to society in order to improve the way humans interact responsibly with the Earth system. This book provides new messages to geoscientists, social scientists, intellectuals, law- and decision-makers, and laypeople. Motivations and actions for facing global anthropogenic changes and their intense impacts on the planet need to be governed by an ethical framework capable of merging a solid conceptual structure with pragmatic approaches based on geoscientific knowledge. This philosophy defines geoethics.

This book is dedicated to Jan Boon.

Chapters:

Di Capua G., Bobrowsky P.T., Kieffer S.W. and Palinkas C.

Introduction: geoethics goes beyond the geoscience profession ([open access](#))

Peppoloni, S. and Di Capua, G.

Geoethics as global ethics to face grand challenges for humanity

Bohle, M.

Geo-societal sense-making

Keane, C.M. and Asher, P.

Addressing the geoethics skills gap through co-curricular approaches

Cronin, V.S.

Geoethics as a common thread that can bind a geoscience department together

Mogk, D.W.

The intersection of geoethics and diversity in the geosciences

Bonham, O. and Waldie, A.

Geoscience, ethics and enforcement

Dawson, L.A., Di Maggio, R.M., Mckinley, J., Di Capua, G., Peppoloni, S. and Pringle, J.

A proposal for a white paper on geoethics in forensic geology

Fernández-Fuentes, I., Correia, V. and Neumann, M.

The importance of professional regulation of geoscientists and their role in a fast-changing world

Ovadia, D.C. and O'Connor, E.A.

International geoscience cooperation – fair and equitable?

Boon, J.

Sociology for mineral exploration

Bilham, N.

Responsible mining and responsible sourcing of minerals: opportunities and challenges for cooperation across value chains

Mudd, G.M.

Sustainable/responsible mining and ethical issues related to the sustainable development goals

Groenfeldt, D.

Ethical considerations in managing the hydrosphere: an overview of water ethics

Bellaubi, F. and Arasa, A.

Geoethics in groundwater management: the geoethical dilemma in la galera aquifer

Oboni, F. and Oboni, C.H.

Holistic geoethical slopes' portfolio risk assessment

Cerese, A.

From 'good' intuitions to principled practices and beyond: ethical issues in risk communication

Stewart, I.S. and Hurth, V.

Selling Planet Earth: re-purposing geoscience communications

Wuebbles, D.J.

Ethics in Climate Change: A Climate Scientist's Perspective

McLean, M.R.

Reaching out from Earth to the stars

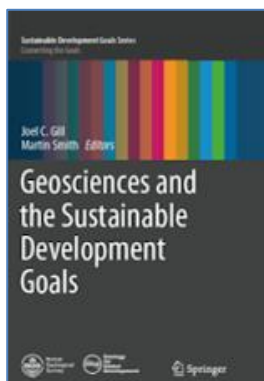
A great thank to all the reviewers of the book chapters:

Ruth Allington, Beth Bartel, Martin Bohle, Jan Boon, Edoardo Borgomeo, Daniela Di Bucci, Vincent S. Cronin, Erle Ellis, Robert Frodeman, Armin Grunwald, Linda Gundersen, Fausto Guzzetti, Jill L. Karsten, Christopher Keane, Helio A. Lazarim, Eduardo Marone, Ellen Pletcher Metzger, David W. Mogk, David Craig Ovadia, Roberto Lencina, Silvia Peppoloni, Rika Preiser, Ortwin Renn and Mike Stephenson.

This book on the GSL (Lyell Collection) website:
<https://sp.lyellcollection.org/content/508/1>

[Download the poster with the list of book chapters](#)

[Other books on geoethics](#)



New book: geosciences and the sustainable development goals

The role of geoscience in achieving the UN Sustainable Development Goals is the subject of a new book, with contributions from 42 authors across six continents – including Silvia Peppoloni (IAPG Secretary General), Ezzoura Errami (IAPG Continental Coordinator, Africa), Nic Bilham (IAPG Continental Coordinator, Europe) and Ranjan Kumar Dahal (IAPG-Nepal co-coordinator):

*Joel C. Gill and Martin Smith, eds. (2021). **Geosciences and the Sustainable Development Goals**. XXIII+474 p., 3 b/w illustrations, 234 illustrations in colour, Springer, ISBN 978-3-030-38814-0. doi:10.1007/978-3-030-38815-7.*

Joel Gill – Lead Editor and IAPG member said: *"We wrote this book to demonstrate how geoscientists can support sustainable growth and decent jobs, resilient cities and infrastructure, access to basic services, food and water security, and effective environmental management. This book is both a call-to-action and a reminder that ensuring lasting, positive change depends on how we work and our commitments to geoethics, equitable partnerships, professional integrity, and ensuring safe, diverse, and inclusive environments."*

The book can be accessed from the [Springer-Nature website](#). Geology for Global Development will be working to help geoscience institutions and development agencies in the Global South access the book.

[Read more](#)

[Other books on geoethics](#)



International Geoethics Day 2021

14 October 2021

The 5th edition of this event is focused on the topic **"geoethics enhances the value of geodiversity"**.

To celebrate the International Geoethics Day 2021, send an email to iapgeoethics@aol.com with a photo of you together with a geological item of the place where you live (outcrop, rock, mineral, fossil, geological landscape and/or process). In alternative, post your photo on social media by using the hashtag: **#geoethicsday2021**.

Moreover, if you want to organize an event (conference, webinar, seminar, field trip, etc.) to celebrate the International Geoethics Day, please inform the IAPG Secretariat by sending an email to: iapgeoethics@aol.com. IAPG will be happy to promote your event.

IAPG officially launched the International Geoethics Day on 12 October 2017, during the Earth Science Week 2017.

The aim of the International Geoethics Day is 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.

The International Geoethics Day is held every year during the Earth Science Week.

Read here:

<https://www.geoethics.org/geoethics-day>



Watch the videos of the short course on geoethics

We have uploaded all the videos of the lectures of the Short Course SC4.4 "Foundations and Perspectives of Geoethics for Earth, Marine and Atmospheric Sciences - In memoriam of Jan Boon" (Conveners: Eduardo Marone, Giuseppe Di Capua, Silvia Peppoloni), organized by the [School on Geoethics \(Schola\)](#) of the IAPG - International Association for Promoting Geoethics and [IOI-TC-LAC - International Ocean Institute Training Centre for Latin America and the Caribbean](#), held at vEGU21 on 29 April 2021.

After completing this course, participants:

1. Will know the basic principles of ethics and how these lead to geoethics.
2. Will be aware of the dilemmas involved in making geoethical decisions.
3. Will have gained some experience in taking a geoethical approach to real-world cases.

Programme of the course and links to videos:

0. Forewords to Honour Jan Boon (Giuseppe Di Capua):

<https://www.youtube.com/watch?v=piQv21HI5so>

1. Theoretical foundations of Geoethics (Silvia Peppoloni):

<https://www.youtube.com/watch?v=Rz5yHyHjzEw>

2. Responsible conduct of research and professionalism (David Mogk):

https://www.youtube.com/watch?v=RZmUEyR_Ri8

3. Development Perspectives for Geoethical Thoughts? (Martin Bohle):

<https://www.youtube.com/watch?v=EcCnxHbIYt0>

4. Education for Confronting (geo)ethical dilemmas (Eduardo Marone):

<https://www.youtube.com/watch?v=r5NIHyjZX4>

5. Geoethics and responsible mining (Nic Bilham):

<https://www.youtube.com/watch?v=Z-EuWOE-CGs>

6. Geoethics in natural hazards from the perspective of an engineering geologist. (Vince Cronin):

<https://www.youtube.com/watch?v=xhyXb6WxyOw>

7. Geoethics' case studies: Paleontology and Geoheritage (Daniel DeMiguel):

<https://www.youtube.com/watch?v=fj3tkjPKqt0>

8. Geoethics' case studies: effects of the EU directive on conflict minerals (Vitor Correia):

<https://www.youtube.com/watch?v=16K0cG7c-h8>

Online resources of the IAPG School on Geoethics and Natural Issues:

<https://www.geoethics.org/geoethics-school>

IAPG YouTube Channel:

<https://www.youtube.com/user/iapgeethics/videos>



10 years of sessions on geoethics at the EGU General Assembly: watch the video

This year we have celebrated 10 years of sessions on geoethics organized by the IAPG - International Association for Promoting Geoethics at the General Assembly of the European Geosciences Union (EGU).

The list of all sessions on geoethics can be found here:

<https://www.geoethics.org/egu2021>

Here the video of the introduction to the session EOS4.2 by Silvia Peppoloni (IAPG Secretary General) with a short description about the contribution of the IAPG to the last ten editions of the EGU General Assembly (watch the video in the IAPG YouTube channel):

<https://youtu.be/aKGmN0kFFM8>



miniGeology interviewed Peter Bobrowsky on geoethics

Peter Bobrowsky (IAPG Continental Coordinator for North America) was interviewed by Daniel Minisini (miniGeology).

Here the link to the video recording on YouTube of the full interview to Peter Bobrowsky:

<https://youtu.be/jf4RM8YGa8Y>

This is the trailer of the interview:

<https://youtu.be/YVwRarLI6AY>

[Read more](#)





**Special Issue of the journal Sustainability (Call for papers):
"New Advances on Geoethics and Sustainable Development"**

Dear Colleagues,

The Earth, understood from a human perspective, is the physical place, but also the cultural and technological space, which humanity have the ethical duty to protect and transfer to future generations. There is a close connection between the social–ecological systems of the planet and their possible degradation if the thresholds of systemic sustainability are exceeded. The serious problems produced by Western development models, gradually accepted or imposed on a global level, cannot now find solutions through actions limited to local or national contexts—these need to be addressed through agreements on implementation methods and actions that are designed at a supranational level. For that reason, in this historical moment, it is essential to develop a global ethics towards the Earth that takes into account local contexts, but which is also able to provide a general vision of the common challenges to be addressed.

Geoethics has been defined as “the research and reflection on the values that underlie appropriate behaviours and practices, wherever human activities interact with the Earth system”. It is proposed as a global ethics that identifies the values on which to base a more responsible and functional interaction between human beings and the planet understood as a system. Geoethics was born and developed to valorize geosciences from a social point of view and to make geoscientists aware of the role they can and have to play in society. At present, its conceptual and practical potentials are increasingly evident, as well as its ability to propose itself as an ethics capable of redefining the relationship between human beings and the Earth system on a global level. Geoethics specifies and qualifies responsible human action through concepts such as sustainability, geo-conservation, adaptation to changes, risk prevention, and geo-environmental education, which give operational concreteness to the modern ecological feeling and which underlie the cultural, technological, energy, and economic changes of our societies.

Responsibility towards the Earth, its social-ecological systems, and future generations introduces the fundamental concept of sustainability, which in turn implies the human capability to manage production and consumption mechanisms in a long-term perspective and to respect natural environments and processes in order to contribute to their ecological sustainability. Sustainability is based on the awareness that the natural resources of the Earth system are limited, that ecosystem services can be extremely delicate, and that their management by human communities must take into account planetary limits, so as to develop a safe operating space. A more sustainable society is a more just, equitable, inclusive, prepared, participatory, and ecologically oriented society, in line with the values expressed by the 17 Sustainable Development Goals of the United Nations.

This Special Issue aims to enrich and broaden the discussion on the concept of sustainability, analyzing it also in the light of the values of geoethics and considering its ethical, social, and cultural implications, so as to enrich the theoretical perspectives and

practical applications of a global ethics towards the Earth. To this end, authors are invited to submit papers with scientific considerations, but also reflections relating to philosophical, historical, sociological, economic, and technological aspects, also with the help of practical examples and case studies. The Special Issue is promoted by the IAPG - International Association for Promoting Geoethics (<https://www.geoethics.org>).

Silvia Peppoloni (INGV Rome, Secretary General of the IAPG)
Giuseppe Di Capua (INGV Rome, Treasurer of the IAPG)
Guest Editors

More information about this special issue:

https://www.mdpi.com/journal/sustainability/special_issues/geoethics

Keywords: geoethics, sustainability, human niche, social-ecological systems, planetary boundaries, safe operating space, ecosystem services, Sustainable Development Goals, Earth system governance, Earth stewardship

2 new papers were published in this special issue and can be freely downloaded (other 2 ones, already published, are available on the IAPG website):



Conversi D. (2021). Exemplary Ethical Communities. A New Concept for a Livable Anthropocene. Sustainability, 13(10), 5582, <https://doi.org/10.3390/su13105582>.

Abstract: This article argues that we need to look at living examples provided by non-state communities in various regions of the world that are, perhaps unwittingly, contributing to the maintenance of the Earth's optimal thermal balance. These fully sustainable communities have been living outside the mainstream for centuries, even millennia, providing examples in the global struggle against the degradation of social-ecological systems. They have all, to varying degrees, embraced simple forms of living that make them 'exemplary ethical communities' (EECs)—human communities with a track record of sustainability related to forms of traditional knowledge and the capacity to survive outside the capitalist market and nation-state system. The article proceeds in three steps: First, it condenses a large body of research on the limits of the existing nation-state system and its accompanying ideology, nationalism, identifying this institutional-ideological complex as the major obstacle to tackling climate change. Second, alternative social formations that could offer viable micro-level and micro-scale alternatives are suggested. These are unlikely to identify with existing nation-states as they often form distinct types of social communities. Taking examples from hunter-gatherer societies and simple-living religious groups, it is shown how the protection and maintenance of these EECs could become the keystone in the struggle for survival of humankind and other forms of life. Finally, further investigation is called for, into how researchers can come forward with more examples of actually existing communities that might provide pathways to sustainability and resistance to the looming global environmental catastrophe.



Georgousis E., Savelides S., Mosios S., Holokolos M.-V., and Drinia H. (2021). **The Need for Geoethical Awareness: The Importance of Geoenvironmental Education in Geoheritage Understanding in the Case of Meteora Geomorphes, Greece.** *Sustainability*, 13(12), 6626, <https://doi.org/10.3390/su13126626>.

Abstract: The purpose of this article is to explore the young generation's geocultural consciousness. The research uses the case of Meteora Geomorphes, which have been proposed as a geological heritage site and are known to students for aesthetic, cultural and religious reasons. The sample of the research consisted of third grade Junior High school (Gymnasium) pupils, who have been taught Geography–Geology courses in previous classes, and students from departments of the University of Thessaly, Central Greece, wherein their subjects are taught cultural heritage courses. The data collection was conducted through a structured questionnaire that examines their knowledge, values, geoethical attitudes, behaviors and beliefs about geocultural heritage understanding. The result of the research shows the lack of understanding of the geological heritage in relation to cultural heritage and of the sense of responsibility for the environment and a code of ethics for protection and conservation. The need for strategic educational planning of geoeeducation in school practice with the integration of geoheritage in the theme of environmental education (geoenvironmental education) is obvious.



New article on linking geological heritage and geoethics

DeMiguel D., Brilha J., Alegret L., Arenillas I., Arz J.A., Gilabert V., Strani F., Valenciano A., Villas E. and Azanza B. (2021). **Linking geological heritage and geoethics with a particular emphasis on palaeontological heritage: the new concept of 'palaeontoethics'.** *Geoheritage*, 13, 69, <https://doi.org/10.1007/s12371-021-00595-3>.

Abstract: Geoconservation and geoethics are two emergent domains in geosciences. During the last decade, both topics have increasingly gained the attention of geoscientists and the society, but the main geoethical dilemmas related to the conservation and management of geoheritage are not clearly identified yet. This work aims at providing an overview on the meaning and scope of geoethics and how it intersects geoheritage and the practice of geoconservation. Some case studies—many of which are under current debate and have a high potential as geoeeducational resources—are presented for addressing ethical, social and cultural settings as well as dilemmas affecting geoheritage. We find that there are particular cases (mostly concerning the trade of fossils, and in particular the growing concern about activities that rely on amber from Myanmar) for which a clear dichotomy of views makes them much more problematic and complex. These cases deserve more suitable legal frameworks that help implement more balanced ethical standards and practice guidelines for geoconservation, guarantee human rights and needs in relation to that heritage and contribute to the advancement of geosciences. Particular attention is given to palaeontological heritage, as fossils are among the most threatened elements of the Earth's diversity and are in need of more effective and statutory protection measures. In the context of geoethics applied to

palaeontological heritage, and given the need of a clear understanding of what ethics in palaeontology means, a new concept—palaeontoethics—is proposed and formally defined.



IAPG supports the Lisbon Declaration on Humanities, Open Research and Innovation

The IAPG Executive Council expressed its full support to the Lisbon Declaration on Humanities, Open Research and Innovation. This important document is a result of the European Humanities Conference 2021, Lisbon, 7th May 2021.

The Lisbon Declaration can be downloaded here:

<https://europeanhumanities2021.pt/lisbon-declaration/>

or here:

https://f420cbad-ec08-4c39-902f-b0e5afecb44a.filesusr.com/ugd/5195a5_1fb3dd25b0cc4b2d81ca27d768320ccb.pdf?index=true

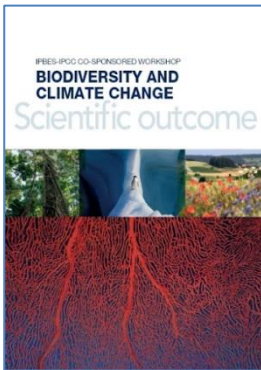
These are the key-points of the Lisbon Declaration:

1. Invite humanities scholars to mobilize their institutions and relevant stakeholders to guarantee that every single youngster throughout Europe has open access to humanities research, education and innovation by 2025, contributing effectively to increase humanities literacy throughout all European regions. Encourage humanities scholars to engage actively in research, education and innovation activities under “open science principles” and in close collaboration with activities throughout different disciplines, as well as policy-level discussion, contributing to new modes of knowledge production and diffusion, together with innovative concepts and understandings of evidence.
2. Request education leaders and higher education institutions to ensure that, from primary through all levels of education, including doctorate levels, integrate, transversally, course units on humanities and sciences interaction, strengthening the value of universal knowledge for addressing societal challenges.
3. Request research and higher education institutions and employers to actively promote mobility of students and researchers in the humanities, across geographic borders and disciplinary fields.
4. Further request higher education and research institutions to reach out to a wide range of stakeholders, through education, research and innovation initiatives aimed at sustainable innovation, co-designed with local communities, building from the humanities and their interaction with sciences and techniques.
5. Undertake to strengthen support for the humanities autonomy through existing funding mechanisms as well as innovative forms of financing.
6. Invite UNESCO, together with the institutions of the European Union, to seek appropriate modalities to bring together

governments at Ministerial level, both in Europe and beyond, to further promote humanities research, education and innovation and to help designing corresponding policy actions.

Documents and online resources on topics of interest for geoethics on the IAPG website:

<https://www.geoethics.org/resources>



Geoethics in the 2021 IPBES-IPCC document

Geoethics was included into the "Scientific Outcome of the IPBES-IPCC co-sponsored workshop on biodiversity and climate change" (IPBES: Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services; IPCC: Intergovernmental Panel on Climate Change)

This document can be downloaded here:

https://www.ipbes.net/sites/default/files/2021-06/2021_IPCC-IPBES_scientific_outcome_20210612.pdf

In the Section 4.2 "Human and Social Dimensions" (page 49) you can read the following sentences, that include also the definition of geoethics by IAPG:

"Ethical behaviour with respect to nature ("geoethics") is at the core of several discussions regarding adaptation. The values which underpin appropriate behaviours and practices wherever human activities interact with the Earth system play an important role in the awareness of society regarding problems with biodiversity and NCP. Ethical, social, and cultural implications of both scientific knowledge and humankind's role as an active geological force on the planet and the ethical responsibility that this implies need to be addressed in every plan of action (Bobrowsky et al., 2017). This includes equity issues linked to biodiversity related interventions. These are often not distributionally neutral and have equity implications both within and between generations."

The paper on geoethics cited in the document is:

Bobrowsky, P., Cronin, V.S., Di Capua, G., Kieffer, S.W., & Peppoloni, S. (2017). The emerging field of geoethics. *Sci. Integr. Ethics Geosci*, 73, 175.

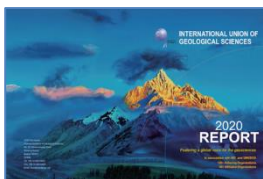
This paper can be read here:

https://f420cbad-ec08-4c39-902f-b0e5afecb44a.filesusr.com/ugd/5195a5_2d21386d650f4f418cb05d0d7dad395c.pdf

A detailed definition of geoethics is provided in:

Di Capua G. and Peppoloni S. (2019). Defining geoethics. Website of the IAPG - International Association for Promoting Geoethics, <http://www.geoethics.org/definition>.





IAPG report included in the 2020 Annual Report of the IUGS

IAPG was invited to contribute to the 2020 Annual Report of the International Union of Geological Sciences - IUGS (<https://www.iugs.org/>). This is the result of the great efforts that IAPG community is doing to develop and promote geoethics worldwide. The IAPG is an affiliated organization of the IUGS from 2013.

[Download the 2020 Annual Report of the IUGS and read the IAPG report from page 73 to page76](#)



The IAPG section of Bolivia

The section is officially established on 5 July 2021 and will work under the responsibility of Wilfredo Ramos Collorana (Universidad Mayor San Andrés - UMSA, La Paz; President of "Colegio de Geólogos de Bolivia"). Wilfredo is Professor at the Geological Engineering Department of the "Universidad Mayor San Andrés" (UMSA), La Paz and current President of "Colegio de Geólogos de Bolivia". He is also the Bolivian representative of LAIGEO and IGEO.



He got his PhD at the "Universidad Nacional de La Plata", Argentina. He was Specialist on Environmental Engineering at the "Universidad Tecnológica Nacional, Facultad Regional de La Plata", Argentina. He worked on mining exploration and prospecting in Bolivia, also as researcher, and on mining geology in Argentina and Chile (1998-2015). He was Director of Prospecting and Exploration at the "Servicio Geológico Minero" (SERGEOMIN) from 2014 to 2015. He worked on geology at the "Servicio Geológico de Bolivia" from 1993 to 1997.

IAPG-Bolivia is one of the **[thirty-four sections of the IAPG](#)**.



The IAPG section of Afghanistan

The section is officially established on 2 August 2021 and will work under the responsibility of Mohammad Salem Hussaini (Kabul Polytechnic University) (top-left) and Asadullah Farahmand (Ministry of Energy and Water, Kabul) (bottom-left).



Mohammad Salem Hussaini got the B.Sc. in Geology, Department of Geoscience, Faculty of Science, Sistan and Baluchestan University, Iran; M.Sc., Department of Geoscience, Isfahan University, Iran; and from 2017 is Assistant Professor at the Department of Engineering Geology and Hydrogeology of the Kabul Polytechnic University. His current research field is on groundwater management for Kabul city and other districts in Afghanistan. He is working on artificial groundwater recharge (site section for managed aquifer recharge in Kabul city which includes spatial multi-criteria decision making techniques integrated by remote sensing and GIS), and on climate change impact on groundwater resources, depletion of groundwater potential zones, and ground subsidence in Kabul city area.



Asadullah Farahmand has a B.Sc. Bachelor's degree focused in Engineering Geology and Hydrogeology from Kabul Polytechnic University. From 2019 he works at the Department of Groundwater Resources (MEW) of the Ministry of Energy and Water in Kabul City. He is working in groundwater field for Kabul city and other districts

in Afghanistan. In particular, on groundwater potential zones in Arghandab sub basin using remote sensing and AHP, ANP technique and on artificial groundwater recharge (site selection for managed aquifer recharge in Kabul city which includes spatial multi-criteria decision-making techniques integrated by remote sensing and GIS). In addition he is working on the assessment of the origin and source of interaction between surface waters and groundwaters of Kabul basin using hydrochemistry and environmental isotopes (deuterium, oxygen-18 and tritium).

IAPG-Afghanistan is one of the **thirty-four sections of the IAPG**.

P.S.: due to recent events occurred in Afghanistan, we contacted our colleagues who informed us being safe and waiting for the evolving situation. We will keep you informed.



IAPG-Peru has a new coordinator

Pedro Isique is the new coordinator of IAPG-Peru from 1 June 2021. He is a geologist with experience in applied Geology, Environmental Geology, Environmental vulnerability of water sources, Quarry Research and sources of construction materials. He graduated as a geologist from the University of San Marcos-Lima. He got a Msc. Environmental Management at the Federico Villareal University, a Diploma in Geotechnics USAT-University of Valencia. He was Leadership Course at the UPC-Harvard University, Professor at the Universidad Peruana de Ciencias Aplicadas, Professor at the Universidad San Martín de Porres, Geologist of the Geology Division of the Ministry of Transport – Peru. Finally, he is an International Consultant in applied geology and groundwater vulnerability. He worked in all regions of Peru, as well as in Ecuador, Bolivia, Chile, Panama, the Dominican Republic, Brazil and Angola (Africa). He has also been an Advisor for the ministerial office of the Ministry of Transport, former President of the Peruvian Association of Geological Engineering, former Director of the Peruvian Consulting Association, former Director of the Geological Society of Peru. Currently, he is President of the XX Peruvian Congress of Geology (2021). Pedro takes over from Carlos Toledo Gutierrez in chairing the IAPG-Peru section.

IAPG wishes to thank Carlos for the excellent job he has done in the last 2 years, strengthening the IAPG-Peru's position as the leading group actively promoting geoethics in South America.

IAPG-Peru is one of the **thirty-four sections of the IAPG**.



New member of the IAPG Board of Experts

Mike Buchanan was appointed as IAPG expert on "Geoethics in Speleology".

He has thirty years' experience as speleologist, karstologist. He has focused his interest on the management and conservation of karst groundwater systems and their subterranean component. He has professional experience in the exploration of caves and confined spaces; groundwater tracing and vulnerability mapping of karst freshwater aquifers, in relation to catchments; pollution point source identification by chemical analysis.

He was co-author of The Management of Karst Landscapes and Caves for UNESCO Cradle of Humankind World Heritage Site 2002.

Welcome to Mike in the IAPG Board of Experts!

IAPG Board of Experts (Corresponding Citizen Scientists):

<https://www.geoethics.org/experts>



IAPG Task Group on Responsible Speleology

This new IAPG Task Group is active from 21 June 2021 and is formed by Mike Buchanan (United Kingdom), Oana T. Moldovan (Romania), and Aleksandar Antić (Serbia).

One of the founder member of the Task Group on Responsible Speleology (TGRS) is Carolyn Ramsey (Canada), that served the TGRS till 30 August 2021; then she was replaced by Oana T. Moldovan from 1 September 2021.

[Read more](#)

Past events



28 June 2021

Lorna Dawson gave a pre-recorded talk entitled "Geoethics in Forensic Geology: A White Paper" at the 50th Brazilian Congress on Geology. The presentation was co-authored by L. Dawson, R. Di Maggio, J. McKinley, G. Di Capua, S. Peppoloni, J. Pringle, D. Auchie, D. Parratt.



21 May 2021

Vincent Cronin (IAPG-USA co-coordinator) represented the IAPG at the American Geosciences Institute's (AGI) virtual Spring 2021 Member Society Council (MSC) meeting. IAPG is an International Associate Society of the AGI from 2014.



16 May 2021

Luis Alberta Araujo Ramos (IAPG-Peru board) delivered an online talk (in Spanish), entitled "Geoethics in Peru".



7 May 2021

Silvia Peppoloni (IAPG Secretary General) was invited speaker at the round table on health and humanities in the European Humanities Conference 2021.



27 May 2021

IAPG-Italy informs that Silvia Peppoloni and Giuseppe Di Capua presented their book in Italian "Geoetica - Manifesto per un'etica della responsabilità verso la Terra" (<https://www.donzelli.it/libro/9788855221696>) (in English: Geoethics - Manifesto for ethics of responsibility towards the Earth" on 27 May 2021, during the event "Progetto Gutenberg 2021 - XVIII edizione, dal titolo Homo sapiens? Fragile civiltà" (in English:



Gutenberg Project: XVIII edition, entitled Homo sapiens? Fragile civilization (<https://gutenbergcalabria.it/2021-homo-sapiens-fragile-civilta/>, in Italian). "Progetto Gutenberg" is a laboratory of critical reading of books, conceived by Prof. Armando Vitale.

Watch the video recording of the meeting (in Italian) on YouTube (from catanzaroinforma.it):

https://youtu.be/zLIQnoS8_FA

Articles from the IAPG Blog



The Ethics of Deep Sea Mining

(by David Ovadia, United Kingdom)

Read here:

<http://iapgeoethics.blogspot.com/2021/04/the-ethics-of-deep-sea-mining-by-david.html>



Geoethics as a Point of Intersection of Humans' Cultural Experiences

(by Silvia Peppoloni and Giuseppe Di Capua, Italy)

Read here:

<http://iapgeoethics.blogspot.com/2021/05/geoethics-as-point-of-intersection-of.html>



A planet of geodiversity

(by Silvia Peppoloni, Italy)

Read here:

<https://iapgeoethics.blogspot.com/2021/06/a-planet-of-geodiversity-by-silvia.html>



Sustainable Mining – what exactly does it mean?

(by David Ovadia, United Kingdom)

Read here:

<https://iapgeoethics.blogspot.com/2021/07/sustainable-mining-what-exactly-does-it.html>



Meteorological or anthropogenic drought? A recent study illustrates the environmental, social and economic risks

(by Silvia Peppoloni, Italy)

Read here:

<https://iapgeoethics.blogspot.com/2021/07/meteorological-or-anthropogenic-drought.html>





The "dark" side of the Moon (and space), between jurisprudence, politics and ecology

(by Silvia Peppoloni, Italy)

Read here:

<https://iapgeoethics.blogspot.com/2021/08/the-dark-side-of-moon-and-space-between.html>



What's news about socio-hydrogeology

(by Enrico Cameron, Italy)

Read here:

<https://iapgeoethics.blogspot.com/2021/08/whats-news-about-socio-hydrology-by.html>

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