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Institute of Geoscience colloquium series

## Geoethics

A keynote lecture by **John Geissmann**, Professor of Geosciences, University of Texas at Dallas

*Monday, 4. January, 16:15 (CET)*

To join the online conference via zoom, please contact Dr. Simon Schneider ([simschne@uni-potsdam.de](mailto:simschne@uni-potsdam.de)) for login information before January 2<sup>nd</sup>. This keynote will be recorded.

The International Association for Promoting Geoethics (IAPG) describes the core elements of Geoethics on its websites as follows:

- Geoethics provides a reference and guidelines for behaviour in addressing concrete problems of human life by trying to find socio-economic solutions compatible with a respect for the environment and the protection of Nature and land.
- Geoethics reflects the social role played by Geoscientists and their responsibilities highlighting the ethical, cultural and economic repercussions that their behavioral choices may have on society.
- Geoethics encourages a critical analysis of the use and management of geo-resources.
- Geoethics deals with problems related to the risk management and the mitigation of geohazards.
- Geoethics fosters the proper and correct dissemination of the results of scientific studies and other information on risks.
- Geoethics aims to improve the relationships between the scientific community, the mass media and the public.
- Geoethics promotes the development of the geoparks and geo-tourism, in order to create social awareness about the value of the geological heritage and geodiversity.
- Geoethics highlights the value and usefulness of the geological and geophysical knowledge in daily life by promoting disciplines like geo-medicine and forensic geosciences.
- Geoethics aims to organize effective teaching tools to develop awareness, values and responsibility, especially amongst the young people.

About John Geissmann:

In 2020, John W. Geissman has earned recognition as the IAPG 2020 Geoethics medalist "... in recognition of career-long dedication to the highest ethical standards and practices of the

geoscience profession. He has demonstrated this commitment to geoethics in his work with international geoscience professional societies by applying the highest standards of research and publication through his leadership as Editor/Associate Editor of the Geological Society of America Bulletin, Journal of Geophysical Research, Tectonics, and EOS, and as Councilor and Past President of the Geological Society of America. Geissman's contributions to the profession are recognized by his Fellowship in both the Geological Society of America and the American Geophysical Union. He has imparted the importance of geoethics to generations of students as he has played a leading role in incorporating geoethics training for undergraduate students in the geoscience curriculum, and through his mentorship of over 70 graduate students, from the Colorado School of Mines, to the University of New Mexico, to, finally, the University of Texas at Dallas. His work has extended beyond the geosciences to address issues of contemporary concern such as the teaching of evolution in public schools, and has proactively addressed the importance of conveying the importance of science to society and removing ignorance and fear of science from society."

John W. Geissman has graduate studies at the University of Michigan (1974) and is a researcher of the highest order, applying the methods of paleomagnetism and rock magnetism to "big questions" in geoscience including studies of the tectonic evolution of the western United States, central and southern Mexico, and the Himalayas, the Karoo intrusive suite (South Africa), paleomagnetism and magnetostratigraphy of Permian/Triassic strata in west Texas and the Karoo Basin, South Africa, and western China, Xinjiang Province, and studies of magnetic fabrics of igneous rocks using anisotropy of magnetic susceptibility/anisotropy of magnetic remanence methods. A common thread in this body of research is an absolute commitment to the integrity of data, data products, and their interpretations. In this research, John has selflessly shared his experience and results in numerous collaborative research projects, and has invited students and colleagues to work with him in his state-of-the-art paleomagnetism laboratory. John was one of the early innovators who has advocated for inclusion of geoethics instruction into classes across the geoscience curriculum—an essential contribution to the long-term health and growth of the geoscience professions. And, John has addressed the persistent issues of diversity and equity in the geosciences, particularly as these affect women and people from underrepresented populations.

For further information, please contact

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## Geoethics

Ein Gastvortrag von **John Geissmann**, Professor für Geowissenschaften, University of Texas at Dallas

*Montag, 4. Januar, 16:15 (CET)*

Um an der online-Konferenz via zoom teilzunehmen, kontaktieren Sie bis zum 2. Januar bitte Dr. Simon Schneider ([simschne@uni-potsdam.de](mailto:simschne@uni-potsdam.de)) für die Zugangsdaten. Der Vortrag wird aufgezeichnet.

Die International Association for Promoting Geoethics (IAPG) beschreibt die Kernelemente von Geoethics auf ihren Webseiten wie folgt:

- Geoethics beschreibt Referenzen und Rahmenbedingungen für das Verhalten bei der Ansprache konkreter Probleme und Herausforderungen des täglichen Lebens und bei der Findung sozioökonomischer Lösungen, die mit einem Respektvollen Umgang mit der Umwelt und dem Schutz von Natur und Landschaften einhergehen sollen.
- Geoethics reflektiert die soziale Rolle, die von Geowissenschaftlern eingenommen wird und deren Verantwortung gegenüber ethischen, kulturellen und ökonomischen Auswirkungen auf das Miteinander.
- Geoethics spornt zur kritischen Analyse der Nutzung und des Managements natürlicher Ressourcen an.
- Geoethics spricht Probleme und Herausforderungen an, die mit dem Management von Geo-Risiken und der Verringerung natürlicher Gefahren einhergehen.
- Geoethics fördert die angemessene und korrekte Verbreitung von wissenschaftlichen Erkenntnissen und von Informationen über mögliche, damit verbundene Risiken.
- Geoethics zielt darauf ab, die Beziehungen zwischen Wissenschaft, Gesellschaft und Medien zu verbessern.
- Geoethics unterstützt die Entwicklung und Konzeption von Geo-Parks und Geo-Tourismus, um die öffentliche Aufmerksamkeit stärker auf den Wert des Naturerbes und der Geodiversität zu richten.
- Geoethics hebt den Wert und den Nutzen von geologischen und geophysikalischen Wissen und Erkenntnissen für den Alltag hervor, indem Disziplinen wie Geo-Health und forensischen Geowissenschaften vorgestellt werden.
- Geoethics zielt darauf ab, gemeinsame Bildungskonzepte zu entwickeln, um das Bewusstsein für den Wert und die Verantwortung von Forschung bei jungen Menschen zu steigern.



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Über John Geissmann:

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