

Wyss, M. and Peppoloni, S. (eds.): *Geoethics. Ethical Challenges and Case Studies in Earth Sciences*. Amsterdam–Oxford–Waltham, Elsevier, 2015. 450 p.

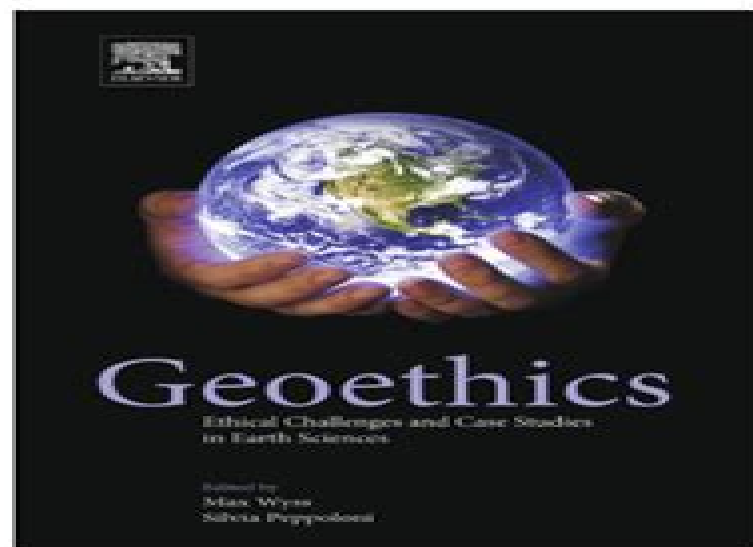
The book provides a unique insight into the emerging field of geoethics and current ethical challenges facing geoscientists. According to a definition in Chapter 1 'geoethics consists of research and reflection on those values upon which to base appropriate behaviour and practice where human activities intersect the geosphere' (p. 4). Like bioethics, geoethics is a form of applied ethics, a new branch of ethics dealing with moral problems, practices and policies especially connected to geosciences, the need for which was first addressed on geological and geoscience conferences in the last two decades. The book is edited by two scholarly geologists devoted to the international enhancement of ethical consciousness in geosciences. Max Wyss (International Centre for Earth Simulation, Geneva, Switzerland) is a worldwide acknowledged geophysicist on earthquake risk reduction, while Silvia Peppoloni (National Institute of Geophysics and Volcanology, Rome, Italy) serves as Secretary General of the International Association for Promoting Geoethics.

The 33 chapters of the book written by 47 different authors shed light on geoethical practice and inquiry from multiple angles. The authors are mainly geophysicists, geologists and also scientists and technical professionals experienced in different areas of risk re-

ductions and disaster mitigation, while some authors are coming from philosophical and ethical institutions. The volume is thematically divided into six sections. 'Philosophical Reflections' (chapters 1–6) is placing geoethics in the context of geosciences and applied ethics. 'Geoscience Community' (chapters 7–9) gives an overview about the ethical endeavours of geoscientists, 'Ethics of Practice' (chapters 10–16) discusses several interesting issues about the ethical dilemmas of those practicing geosciences, while 'Communication with The Public, Officials and The Media' (chapters 17–23) deals with possible ways to communicate environmental uncertainty and risk with a broader public. The section on 'Natural and Anthropogenic Hazards' (chapters 24–29) is followed by writings on the especially vulnerable position of 'Low Income and Indigenous Communities' (chapters 30–33).

'Philosophical Reflections' introduces the case studies presented in the book, provides definitions of geoethics and outlines the broader academic and social context. The opening chapter entitled 'The Meaning of Geoethics' employs a practical notion, focusing on geoscientists' responsibility while practicing research, and sharing strategies for a more ethically conscious future. The second chapter connects geoethics more to the domain of philosophy. Using hermeneutic and phenomenological approaches, this chapter argues for an applied ethics based on a reciprocal communication not just between theory and practice in general, but also between ethicists/philosophers and geoscientists in particular. The following chapters of this part of the book are also reflecting the integrative notion of geoethics. We can read about how geoethics can serve to meet goals of sustainability (Chapter 3), about the flagship position of disaster research in the field of geoethics (Chapter 4), and about the need for an inclusive, interdisciplinary and application oriented field of geoethics (Chapter 5) in line with that 'Science and Technology can no longer be seen as value-neutral providers of knowledge and certain means, leaving only the user and society to think about the moral dimension of their "application"' (p. 51). Chapter 6 offers an interesting insight from the perspective of evolutionary biology into the constraints of human mind when dealing with deep time and historical contingency, which are worth considering when probabilities and uncertainties of geoscientific results are communicated to a broader public. The ideas concerned in the first six chapters lead up effectively to the more special cases analysed in the later chapters of the book.

The second section ('Geoscience Community'), concentrates on the professional ethics of geoscientists, and



# Geoethics Ethical Challenges And Case Studies In Earth Sciences

**Linda C. Gundersen**



## **Geoethics Ethical Challenges And Case Studies In Earth Sciences:**

*Geoethics* Max Wyss, Silvia Peppoloni, 2014-11-13 Edited by two experts in the area Geoethics Ethical Challenges and Case Studies in Earth Sciences addresses a range of topics surrounding the concept of ethics in geoscience making it an important reference for any Earth scientist with a growing concern for sustainable development and social responsibility This book will provide the reader with some obvious and some hidden information you need for understanding where experts have not served the public what more could have been done to reach and serve the public and the ethical issues surrounding the Earth Sciences from a global perspective Written by a global group of contributors with backgrounds ranging from philosopher to geo practitioner providing a balance of voices Includes case studies showing where experts have gone wrong and where key organizations have ignored facts wanting assessments favorable to their agendas Provides a much needed basis for discussion to guide scientists to consider their responsibilities and to improve communication with the public

**Geoethics** Silvia Peppoloni, Giuseppe Di Capua, 2022-04-12 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     Exploring Geoethics Martin Bohle, 2019-03-13 This book explores the potential of geoethics as designed within the operational criteria of addressing the deeds and values of the human agent as part of the Earth system It addresses three key questions i what should be considered geoethics in an operational sense ii what is peripheral to it and iii is there a case therefore to establish a denomination such as geo humanities or geosophy to capture a broader scope of thinking about geoscience and its interactions with society and the natural world for the benefit of the geo professionals and others The book begins by framing contextualising and describing contemporary geoethics then goes on to cover several examples of geoethical thinking and explores the societal intersections of geosciences in the planetary human niche The concluding chapter discusses the challenges facing the emerging field of

geoethics and how it may evolve in the future Bringing together a set of experts across multiple interdisciplinary fields this collection will appeal to scholars researchers practitioners and students within geosciences and social sciences political sciences as well as the humanities It will interest those who are curious about how ethical reflections relate to professional duties scholarly interests activities in professional geoscience associations or responsible citizenship in times of anthropogenic global change

**Scientific Integrity and Ethics in the Geosciences** Linda C. Gundersen, 2017-10-17 Science is built on trust The assumption is that scientists will conduct their work with integrity honesty and a strict adherence to scientific protocols Written by geoscientists for geoscientists *Scientific Integrity and Ethics in the Geosciences* acquaints readers with the fundamental principles of scientific ethics and shows how they apply to everyday work in the classroom laboratory and field Resources are provided throughout to help discuss and implement principles of scientific integrity and ethics Volume highlights include Examples of international and national codes and policies Exploration of the role of professional societies in scientific integrity and ethics References to scientific integrity and ethics in publications and research data Discussion of science integrity ethics and geoethics in education Extensive coverage of data applications *Scientific Integrity and Ethics in the Geosciences* is a valuable resource for students faculty instructors and scientists in the geosciences and beyond It is also useful for geoscientists working in industry government and policymaking Read an interview with the editors to find out more <https://eos.org/editors-vox/ethics-crucial-for-the-future-of-the-geosciences>

**Geoethics** G. Di Capua, P.T. Bobrowsky, S.W. Kieffer, C. Palinkas, 2021-06-08 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

**Geoethics for the Future** Silvia Peppoloni, Giuseppe Di Capua, 2024-07-13 *Geoethics for the Future Facing Global Challenges* offers the latest points of view on highly topical issues in geosciences including climate change sustainable development and energy transition enabling readers to acquire multifaceted knowledge of topics of global relevance and highlighting the importance of the issues affecting geosciences in the 21st Century The book outlines how geoethical considerations are integral in providing new insights and analyses for improving the theoretical structure of

geoethics and its practical applications with an aim to create conditions for sharing perspectives on the best ways for implementing scientific action to face global anthropogenic changes Covers upcoming and current key topics and emphasizes the urgency to find reference frameworks and effective solutions to the issues associated with them Includes multifaceted analyses on relevant topics by leveraging the cross cutting contributions of experts to address urgent global and complex issues related to human Earth system interaction Provides an indispensable basis for discussion to guide scientists in considering their own responsibilities and to highlight the societal relevance of the geosciences Discusses philosophical ethical social political economic legal and theological aspects of geoscience technological applications and anthropogenic impacts on physical environment through the lens of geoethics in time of profound planetary changes Bridges the geosciences social sciences and humanities aiming to address the socio ecological crisis from multiple perspectives and with greater effectiveness

Geoethics In Latin America Rogelio Daniel Acevedo, Jesús Martínez Frías, 2018-03-24 This book studies geoethics in Latin America and offers comprehensive research on geoethics and geoeducation Its respective chapters explore geoethics in relation to UNESCO geoparks mining activities in Latin America natural hazards and risk management Geoethics is a key discipline in the field of Earth and Planetary Sciences and not only includes scientific technological methodological and social cultural aspects but also addresses the need to consider appropriate protocols scientific integrity issues and a code of good practice when studying the abiotic world The position of Latin America s recently created geoethics associations is based on protection of the environment together with a reassurance that the balance of nature and the rights of human beings to enjoy it will be preserved

**Geoscience in Action** American Geophysical Union, UNESCO, 2023-03-23

Advances in Natural Hazards and Volcanic Risks: Shaping a Sustainable Future Ana Malheiro, Francisco Fernandes, Helder I. Chaminé, 2023-04-20 This book comprises the selected proceedings of the 3rd International Workshop on Natural Hazards NATHAZ 22 Angra do Heroísmo Terceira Island Azores 2022 The book interests all researchers and practitioners in Earth Sciences Volcanic Risks Natural Hazards Geoethics Environmental Sciences and Engineering Terceira is a volcanic island with volcanic systems with caldera Cinco Picos Guilherme Moniz Santa Bárbara and Pico Alto central volcanoes and an active fissural zone defined by various alignments of small volcanic cones lava domes and fault zones The agricultural landscape the natural and forest reserve as well as the natural pools make the island a unique place to visit The historic downtown of Angra do Heroísmo is a UNESCO world heritage and several iconic buildings witness the island s geodynamic history Natural hazards result from a threat of a naturally occurring event that will have a negative effect on humans That damaging effect is often called natural disasters Among the natural hazards and potential disasters to be considered are earthquakes volcanic eruptions landslides subsidence floods droughts and coastal erosion In addition anthropogenic hazards occur as a result of human interaction with the environment They comprise technological risks due to exposure to hazardous substances in the environment Natural systems in different frameworks require a comprehensive

understanding of climatology geology hydrology and volcanic data processes and dynamics Thus it is important to perform hazard and risk assessment studies to accomplish hazard mitigation In addition it highlighted the role of variability and climate change in Earth systems Furthermore an accurate understanding of the natural systems and interactions with engineering geodiversity and natural resources is vital to the entire socioeconomic sector This book is expected to offer an overview of natural hazards in model regions in Europe America Asia and the Atlantic islands It gives new insights into the characterization assessment protection and modelling of geological hazards volcanic systems urban areas coastal zones and engineering approaches by international researchers and professionals The scientific committee comprises lead geoscientists natural hazards related practitioners and academics worldwide The main topics include 1 Multi hazards and risks sustainable society disasters and geoethics 2 Natural hazards and assessment rock falls landslides urban planning and management 3 Sustainable Earth systems hazards and climate change 4 Terceira Island geology and geodiversity meeting volcanological hazards in the Azores

**Geoethics in Peru** Sandra Paula Villacorta Chambi, 2022-01-24 The book discusses geoscience

Oosterbeek,2023-02-20 This book contributes to the current discussion on geoethics and global ethics within the geoscience and humanities communities It provides new content and insights into developing convergent human actions in response to global anthropogenic changes based on perspectives that make it possible to combine geoscience knowledge with humanities and social sciences approaches Selected authors present their reflections findings and insights regarding the vision of

geoethics ethics of responsibility towards the Earth as global ethics from philosophical humanities and social sciences perspectives In addition they discuss ethical frameworks from diverse cultural traditions searching for points of intersection with geoethics The goal for global environmental problems to be managed via multi perspective approaches that can more effectively accommodate complexity Combining the strengths of the geosciences humanities and social sciences can pave the way for a paradigm shift in how human societies develop adaptive sustainable responses to environmental changes and societal inequalities

Advances in Geoethics and Groundwater Management : Theory and Practice for a Sustainable Development Manuel Abrunhosa, António Chambel, Silvia Peppoloni, Helder I. Chaminé, 2021-03-30 This book gathers the peer reviewed proceedings of the 1st congress on Geoethics Groundwater Management GEOETH GWM 20 held in Porto Portugal in an online format on 18 22 May 2020 Hosted in School of Engineering ISEP Polytechnic of Porto based on Porto city a UNESCO World Heritage Site the international conference focused on what has now been dubbed hydrogeoethics a novel transdisciplinary scientific field integrating all dimensions of geoethics in groundwater science and practice Given its scope the book is of interest to all researchers and practitioners in the geosciences hydrology water resources hydrogeology natural resources management environment engineering law sociology education philosophy culture among others This joint congress is the result of a collaborative agreement between the IAH International Association of Hydrogeologists and IAPG International Association for Promoting Geoethics and reflects the need for concerted actions to achieve sustainable development The diversity scale significance and increasing magnitude of anthropogenic interactions with aquifers and groundwater which often involve conflicting values or interests call for analysis discussions and decisions on the part of the agents involved e g groundwater scientists policymakers managers organisations professionals and citizens This approach calls for a responsible sustainable and human approach to groundwater use and management The groundwater community involved in the exploration and exploitation use and management of this increasingly vital natural resource is becoming more and more aware that ethical issues pervade all our attitudes from concept to action and need to be addressed Diverse values and cultures science and education law and policies human and natural environments and the public and the economic sectors view groundwater and its value and or role differently The authors believe that in a globalised and interconnected world common ground must be found in the interest of peace human development and sustainability The main topics covered here include 1 Fundamentals of hydrogeoethics cultures principles and geoethical values on groundwater science and engineering 2 Lessons for a resilient and sustainable future with hydrogeoethics case studies of geoethics in groundwater science engineering profession and management 3 Scientific and humanistic components of hydrogeoethics in groundwater education and professional training 4 Socio hydrogeology and ethical groundwater management 5 Geoethics of decision making under uncertainty and ethical issues in neglecting groundwater functioning 6 Groundwater geological legal social and ethical challenges of a unique natural resource

*Computational Intelligence for Water and Environmental Sciences*

Omid Bozorg-Haddad, Babak Zolghadr-Asli, 2022-07-08 This book provides a comprehensive yet fresh perspective for the cutting edge CI oriented approaches in water resources planning and management The book takes a deep dive into topics like meta heuristic evolutionary optimization algorithms e g GA PSA etc data mining techniques e g SVM ANN etc probabilistic and Bayesian oriented frameworks fuzzy logic AI deep learning and expert systems These approaches provide a practical approach to understand and resolve complicated and intertwined real world problems that often imposed serious challenges to traditional deterministic precise frameworks The topic caters to postgraduate students and senior researchers who are interested in computational intelligence approach to issues stemming from water and environmental sciences

Geo-societal Narratives Martin Bohle, Eduardo Marone, 2021-09-23 This book provides an accessible overview of the societal relevance of contemporary geosciences Engaging various disciplines from humanities and social sciences the book offers philosophical cultural economic and geoscientific insights into how to contextualise geosciences in the node of Culture and Nature The authors introduce two perspectives of societal geosciences both informed by the lens of geoethics Throughout the text core themes are explored human agency the integrity of place geo centrality economy and climate justice subjective sense making and spirituality nationalism participatory empowerment and leadership in times of anthropogenic global change The book concludes with a discussion on culture education or philosophy of science as aggregating concepts of seemingly disjunct narratives The diverse intellectual homes of the authors offer a rich resource in terms of how they perceive human agency within the Earth system Two geoscientific perspectives and fourteen narratives from various cultural social and political viewpoints contextualise geosciences in the World s of the Anthropocene The STEAM Revolution Armida de la Garza, Charles Travis, 2018-10-24 This volume is dedicated to collaborative research across STEM disciplines the arts and humanities It includes six sections framed from a global perspective and exhibits contributions from key experts in the field emerging scholarly voices and STEAM practitioners The added value of STEAM projects in research is highlighted in the first section of this book Ranging from the spatial medical and environmental humanities to heritage science this section discusses the course and paths STEAM projects may evolve to in the near future The second section features reflective essays by scientists and artists on the development of their research their professional growth and personal learning experiences that the art science collaborations have afforded their work and careers Sections III and IV provides practical guidance and advice on facilitating STEAM teams and describe successful collaborative projects By presenting the objectives and outcomes of relevant research the chapters in these sections discuss the various steps taken by different teams to achieve project fruition Paying particular attention to barriers inhibiting STEAM collaboration these sections also explore the ways in which research teams were able to work effectively The fifth section presents a review of policy issues and the potential impacts of STEAM research for administrators funders and policy makers In its pursuit for balance and inclusion the volume concludes with a critical reflection on STEAM that argues a different perspective and will



prove food for thought to readers      **Geospatial Science for Smart Land Management** Walter Timo de Vries, Iwan Rudiarto, N.M.P. Milinda Piyasena, 2023-12-22 Responsible land distribution in Asia with ever increasing limitations in space requires the use of smart technologies sophisticated models intelligent algorithms and big data repositories This book presents new land management perspectives and fit for purpose flexible dynamic and effective solutions for land management and land administration problems Written by global experts from different Asian countries including China India Indonesia Iran Japan South Korea Thailand Vietnam etc all these cases demonstrate how and why the uptake of geospatial technologies is booming and how to handle land scarcity and competing spatial interests in both urban and rural areas in Asia FEATURES Summarizes trends of geospatial technologies in Asia Describes and applies leading edge geospatial models Explains fit for purpose digital land administration Provides case studies and examples that include the use of smart land management tools Helps readers advance their understanding of geospatial and land management science Truly an interdisciplinary book this text is a practical guide for an array of readers such as practitioners in public and private companies involved in both geospatial and land management applications as well as graduate students researchers academics and professionals working in land administration land management spatial planning real estate studies geosciences geoinformatics and geodesy      **Geoscience Education** Clara Vasconcelos, 2016-11-14 This book presents research in Geoscience Education focusing on indoor and outdoor environments in which teaching geoscience gains particular relevance significance and contextualization The research areas that are presented throughout the thirteen chapters cover a wide variety of subjects ranging from educational resources and fieldwork to science models Chapters discuss specific geoscience topics such as earthquakes rocks fossils and minerals Other chapters present a more interdisciplinary approach addressing topics that aren't usually examined such as geomedicine and geoethics with a specific focus on sustainable development and their alignment with the school curricula Throughout the book readers can find research based arguments illustrated with practical examples which will help them to innovate in their curriculum development area classroom practices and pre and in service teachers education The book challenges readers to improve Geoscience Education by changing the ways of teaching by enabling students to exploit their natural curiosity and by spurring a learning process that should not be confined to the classroom but rather maintained throughout life

**Transdisciplinarity** Nima Rezaei, 2022-11-13 This contributed volume book aims at discussing transdisciplinary approaches to address common problems By working transdisciplinarily researchers coming from different disciplines can work jointly using a shared conceptual framework bringing together disciplinary specific theories and concepts There are numerous barriers that can obstruct effective communication between different cultures communities religions and geographies This book shows that through bringing together different disciplines researchers not only can surpass these barriers but can effectively produce new venues of thought that can positively affect the development and evolution of

research and education The book discusses new and emerging applications of knowledge produced by transdisciplinary efforts and covers the interplay of many disciplines including agriculture economics mathematics engineering industry information technology marketing nanoscience neuroscience space exploration human animal relationships among others Consequently it also covers the relationship between art and science as one of the most remarkable transdisciplinary approaches that paves the way for new methods in engineering design architecture and many other fields

**Research Directions, Challenges and Achievements of Modern Geography** Jerzy Bański, Michael Meadows, 2023-12-01 This book identifies and discusses research directions challenges and achievements in contemporary geography It also documents the most current theoretical and methodological considerations undertaken by scientists representing various sub disciplines of geography with particular reference to human geography It was assumed that the thematic structure of the currently active International Geographical Union IGU problem commissions corresponds to the most relevant and current research directions in geography Reflecting this assumption the book consists of 14 chapters contributed by geographers representing 14 problem commissions of the IGU which allows us to examine geography from different perspectives and to provide the reader with a complete overview of contemporary research issues in human geography The first part discusses contemporary research problems and issues related to scientific methodology and achievements of selected geographical sub disciplines including urban geography agricultural geography transport geography and political geography among others The second part focuses on the interdisciplinarity of geography and the topics of global dimension undertaken by geographers such as global change GIS and geospatial technology marginalization and environmental change This part also discusses the internal relations between geographical specializations and their links with other related sciences including geology sociology and economics The third part discusses the holistic approaches of geography applied to particular regions territories or conditions Africa coastal systems geomorphology and local development

Geoethics S. Peppoloni, G. Di Capua, 2015-08-24 This Special Publication will be an important tool for geoscientists aimed at increasing the awareness of their societal role and responsibility in conducting education research and practice activities What are the responsibilities of a geoscientist And what motivations are needed to push geoscientists to practice the Earth sciences in an ethical way The major environmental challenges affecting human communities require not only a strictly scientific and technical preparation by the geoscientists but also a reflection on their broader obligations towards society It is important that geoscientists consider geoethics as an indispensable framework on which to base their training and activity The principles of geoethics can guide them to pursue the common good by weighing the benefits and costs of each choice and identifying eco friendly and society friendly solutions that guarantee the respect of the right balance between human life and the dynamics of the Earth Communication and dissemination of geosciences should become core activities in building a knowledge based society which is able better to protect itself and the Earth ecosystems in order to guarantee a life in harmony with our planet for future generations

The Enigmatic Realm of **Geoethics Ethical Challenges And Case Studies In Earth Sciences**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Geoethics Ethical Challenges And Case Studies In Earth Sciences** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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