

5th Young Earth Scientist YES Congress 2019



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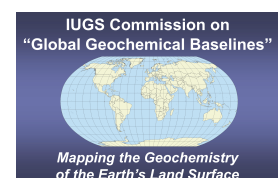
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BGR Bundesanstalt für
Geowissenschaften
und Rohstoffe

GFZ
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The **5th International YES Congress** will be held from the 9th to 13th September 2019 in the vibrant city of Berlin. The YES Network is an international association of early career Earth scientists who are primarily under the age of 35 and are from universities, geosciences organizations and companies from across the world.



The YES Congress in 2019 will be a special opportunity for young scientists from all over the world to share their experiences, their science and culture and to expand their skills.

We offer numerous summer schools and a *Workshop on Global Geochemical Baselines and Resourcing* in the period before and after the congress. Different events, ranging from invited keynote lectures across „elevator pitches“ to a „market of opportunities“ offer young talents the possibility to introduce themselves to potential future employers from industry, business, universities and public authorities and to discover opportunities for training and research in Germany.

In 2019 the 5th YES Congress will have the theme **Rocking Earth's Future**.

Global change confronts us with major challenges such as rapid population growth, increasing urbanization, global warming, soil destruction and water pollution. Globalization processes increases further our vulnerability. For early career researchers, the task is to ensure that humanity is prepared to tackle all these challenges in a smart and sustainable way. This requires hard facts, reproducible and transparent science and a sound commitment.

The YES Congress 2019 will attempt at „Rocking Earth's Future“ by focusing on six large topical issues:

ASHES to ASHES - Understanding Earth processes: Knowledge of the physical and chemical nature of the deep interior of the Earth is the key to understanding many of the processes that shape our planet: from mantle convection to volcanism, from plate tectonics to sedimentation. These processes not only shape the surface of the earth but also influence the deep biosphere.

Unboxing Earth - Interdisciplinary Problem Solving: Due to its complexity, science is split into disciplines and knowledge put into neatly labeled boxes. Unfortunately, an attempt to constrain a continuum like nature into boxes is destined to fail in most cases. Out-of-the box and interdisciplinary science is a challenging path as many mental and physical hurdles are to be taken. Those who take this path have extraordinary stories to tell. Fellow wanderers should make camp and invite others to tell of problems and solutions found on this bumpy road.

Heritage Earth - Sustainable Resource Management: Resources of all kinds are limited and this already is or will be in conflict with their ever increasing demand. At the same time, their exploitation often has huge impacts on the envi-

ronment. Sustainable resource management covers both aspects and includes, among others, the development of more effective and environmentally less harmful technologies in exploitation, increasing recycling, designing remediation strategies of mining wastes, and holistic post-utilization concepts. In this topic, we welcome all session contributions aiming towards a (more) sustainable resource management.

Society at Risk - Impacting Earth Phenomena: The adventure between humans and the Earth has started 4.5 million years ago with the appearance of our ancestors and we, their successors, changed the 'Blue Marble' significantly. As a result of population growth, necessity of the natural sources has significantly increased. Human activities - such as agriculture, mining, settlements, etc., - impact the natural environment considerably and most of the time dramatically. Humans affect water resources, wetlands, forests, air quality, in fact nature in a single word. As a consequence of these impacts, humankind has to learn how to do responsible and sustainable management of natural resources. In this session, we would like to discuss different aspects of the human impacts on Earth phenomena from different perspectives.



Brave New World - Advanced Technologies in Earth sciences: Nowadays every scientist has to keep up with the latest advances in technologies since most research depends on novel techniques. Whether it is the faster, more efficient or more precise way to collect and process data, new technology is what makes science more exciting. Therefore in this topic we accept session proposals related to methods aiming to visualize, collect, process or organize data using emerging techniques. This can include a variety of topics ranging from new instrumentation over 4D imaging to new softwares in geoscience.

Beyond Printing - Communicating Science: Communicating your science to a variety of audiences is critical for us as scientists. Be it communicating to policy makers, to journalists, companies or to schools - making others understand why your research matters, how its results impact them, and how it helps to tackle our current global challenges is just as important as doing the science itself. We therefore accept session proposals that focus on a variety of ways of communicating your geoscientific research!