

Editorial to the fifth issue of “International Journal of Terrestrial Heat Flow and Applied Geothermics”

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The fifth issue of the *International Journal of Terrestrial Heat Flow and Applied Geothermics – IJTHFA* stands out as a remarkable step in bringing together important works on global geothermal research. It is indication that this journal is being recognized as a convenient and useful forum for dissemination of research results and information within the IHFC community.

Overview of Accepted Contributions

The organizers of volume 5 of the International Journal of Terrestrial Heat Flow and Applied Geothermics (IJTHFA) received twelve manuscripts, which after due review process were accepted for publication. Given below is a brief overview of the accepted contributions. These are:

Continental Heat Flow Studies: The first paper in group is by Wenjing Zhu, Shaowen Liu, Shaopeng Huang of the School of Geography and Ocean Science, Nanjing University, China. This is an invited paper dealing with analysis of heat flow data of 56 countries in the Asian continent.

The second one is a similar work on heat flow data in Siberia, by Raisa Dorofeeva of the Russian Academy of Sciences, Siberian Branch, Irkutsk Russia and Albert Duchkov Trofimuk from the Institute of Petroleum Geology and Geophysics, Russian Academy of Sciences, Siberian Branch, Novosibirsk, Russia.

Oceanic Heat Flow Studies: The only paper on marine heat flow in this group is that by Maria Rosa Duque. She is professor at Department of Physics/ Science and Technology School, University of Évora, Portugal. Her work is focused on analysis of marine heat flow in north Atlantic.

Geothermal Resources: Problems in assessment of geothermal resources constitute the third group. A notable contribution is that by Professor Ladislaus Rybach of the Department of Earth Sciences (ETH) Zurich and Institute of Geophysics and GEOWATT AG, both in Zurich, Switzerland.

This work is followed by a review contribution of geothermal resources of the Asian continent by the geothermal group at the National Observatory, Rio de Janeiro, Brazil led by Valiya M. Hamza, Fábio P. Vieira, Suze N.P. Guimarães and Jorge L.S. Gomes.

Geothermal Resources Utilization: Problems in practical utilization of geothermal resources is considered in the work by Salakhov S. Sh. of the Ministry of Ecology and Natural Resources of Azerbaijan Republic.

Climate Change Studies: The contribution of the group led by Fiorenza Deon, Hans-Jürgen Förster, Frank van Ruitenbeek and Oona Appelt deals with results of analytical techniques (SWIR imaging, XRD, EPMA) for the identification of minerals frequently formed during natural and technological geothermal processes.

The physical model for estimation of climate changes of the recent past is addressed by Dmitry Demezhko, Anastasia Gornostaeva and Bogdan Khatskevich.

Mineral Thermometric Studies: This section deals with studies of mineral thermometric data for understanding of paleo heat flow by Carlos Alexandrino, André Froede and Carlos Mirez.

Memories: The last group is devoted to memories of late Arthur Harold Lachenbruch who made brilliant contributions to studies of geothermal research.

Tributes: This section is devoted for tributes of works by Prof. Dr. Vladimir Cermak.

With publication of this fifth issue we expect to inform scholars of recent advances, evolving trends and new ideas being put forward in our own particular areas of specialty, both for enlivened discussions and for promoting research by next generations of experts.

The academic world is mostly driven by cross-disciplinary visions and models, but the importance of intra-disciplinary approach cannot be underestimated. The approach embraced in IJTHFA is expected to provide a broadened and modern perspective of international geothermal research.

Concluding Remarks

The editors of this journal are indebted to members of the International Geothermal Community who contributed to successful publication of this issue.

Special thanks are due to those who took part in reviewing the manuscripts. The list of distinguished reviewers for this issue includes Antonio Correa (University of Évora, Portugal), Jacek Majorowicz (now retired) of the Geological Survey of Canada, Jan Safanda (Institute of Geophysics, Academy of Sciences, Czech Republic), Ladislaus Rybach (Earth Science Institute, Switzerland), Maria Rosa Duque (University of Evora, Portugal), Massimo Verdoya (Department of Earth, Environment and Life Sciences, University of Genova, Italy), Sven Fuchs (Thermal Petrophysics Lab, Geo Forschung Zentrum, Potsdam, Germany), Shaopeng Huang (Xi'an Jiaotong University, China and University of Michigan, USA) and Vladimir Cermak (Institute of Geophysics, Academy of Sciences, Czech Republic).

We also thank the editorial staff of IJTHFA in contributing with suggestions for improving the grammatical structure and style of writing in the original versions of most manuscripts. These have been most useful for producing this volume.