International Union of Geodesy and Geophysics

IUGG UGGI

Union Géodésique et Géophysique Internationale

Commission on Mathematical Geophysics

Call for nominations: The 2022 Vladimir Keilis-Borok Medal

Scope

The Vladimir Keilis-Borok Medal of the IUGG Commission on Mathematical Geophysics (CMG), established by the IUGG Bureau in May 2021, recognizes middle career scientists who made important contributions to the field of mathematical geophysics. The aim of the Medal is to honor the legacy of Keilis-Borok – a visionary science leader and organizer, prolific seismologist and mathematical geophysicist, the CMG founder, and former IUGG President – in promoting transformative scientific advancement and selfless leadership.

Award presentation

The Medal will be presented biennially at CMG conferences. The inaugural medal will be presented at the 2022 CMG meeting in South Korea. The awardee will deliver the invited Keilis-Borok Lecture.

Eligibility

A scientist, after 10 years and within 20 years of receiving their PhD or full-time equivalent working, is eligible to be nominated for the medal. The members of the medal committee and the officers of the CMG (during their terms in office) are not eligible to be nominated.

Nomination

The nomination deadline is **1 December, 2021**. Nominations are accepted from any member of the science community. Self-nominations are not accepted. The members of the medal committee cannot nominate candidates.

Format of nomination

A nomination should include:

- **Nomination letter (max 1 page).** The nomination letter, preferably on the nominator's letterhead, must include the nominator's name, position, affiliation, and contacts. The nomination letter must clearly explain why the nominee deserves the recognition. This should include the nominee's scientific contributions to mathematical geophysics, broader impact on the discipline, and their leadership role. The nomination letter might refer to the candidate's publications as listed in the selected bibliography.
- **Curriculum Vitae (max 2 pages).** The curriculum vitae must include nominee's name, contact information, degrees, history of employment, and main research, service, and leadership contribution.
- **Selected bibliography (max 2 pages).** A list of selected publications by the candidate that best support the nomination. It must also summarize the candidate's total number and types of publications.
- **References.** Each nomination must include names and contact information of 3 experts, who can provide references about the nominee at the medal committee's request. The experts might be contacted by the medal committee to give their opinion on the nominee's contributions. No recommendation letters are required, although a nomination may include no more than 3 letters of support (maximum 1 page each). These letters should clearly establish the nominee's recognized contribution to the field. The medal committee members cannot serve as referees to the nominees. Letters from the medal committee members are not accepted.

The nomination materials must use Times New Roman 12pt, Arial 11pt, Calibri 11pt, or comparable fonts. The total nomination package must be no more than 8 pages. Only complete and properly formatted packages will be forwarded for review.

A single PDF file with the nomination materials should be sent to: iuggvkbmedal@gmail.com

Medal Committee

Alik Ismail-Zadeh, Karlsruhe Institute of Technology, Germany (Chair)
Ute Herzfeld, University of Colorado, Boulder, USA
Malcolm Sambridge, The Australian National University, Australia
Ilya Zaliapin, University of Nevada, Reno, USA

Vladimir I. Keilis-Borok, IUGG President (1987–1991) and Founder of the IUGG Commission on Mathematical Geophysics: Vladimir Keilis-Borok (USSR, 1921–2013) was one of the most influential mathematical geophysicists of the last century. He graduated from the Moscow State Geological Prospecting University in 1943 and received his PhD (1948) and DSc (Habilitation, 1953) in mathematics and geophysics from the USSR Academy of Sciences in Moscow. He worked at the Academy's Institute of Physics of the Earth (1948–1989), and chaired its Department of Computational Seismology. In 1989, he founded the Institute of Earthquake Prediction Theory and Mathematical Geophysics at the Academy and was its first Director. In 1999, he moved to the USA to take a position of Regent's Professor at UCLA. He was the founder of the IUGG International Committee for Geophysical Theory and Computers (1964–1979, now CMG), and served IUGG as a Bureau Member (1983–1987) and IASPEI Vice President (1983–1987). He was elected Ordinary Member of the ICSU Executive Board (1988–1991). Keilis-Borok was an elected member of several international academies of science, including the American Academy of Arts and Sciences (1969), the Russian Academy of Sciences (1988), the Royal Astronomical Society (1989), the U.S. National Academy Sciences (1971), the Austrian Academy of Sciences (1992), the Pontifical Academy of Sciences (1994), and the Academia Europaea (1999). He was awarded the inaugural Lewis Fry Richardson Medal by the European Geophysical Society for his exceptional contributions to non-linear geophysics.