Stanislav Glubokovskikh

Early Achievement Award

Brisbane September 2021

CITATION:

The Early Achievement Award was inaugurated in 2007 to acknowledge significant contributions to the profession at an early stage in a person's career, by way of publications, professional work, or contributions to the ASEG by a member under 36 years of age. The award includes a $2500 contribution to the recipient in recognition of their achievement.

The Early Achievement Award for 2021 is presented to Dr Stanislav Glubokovskikh, formerly from the WA Branch, for his innovative work in in the field of seismic reservoir characterisation and monitoring, his commitment to the profession, and his extensive publication and presentation record over his short career.

Stanislav, or Stas as he prefers, is currently a career Earth Scientist at Lawrence Berkeley National Laboratory, Energy Geosciences Division in California, USA. He joined the Berkeley Lab at the end of 2020 to lead the Lab's effort in a multi-year, multi-institutional research program funded by the U.S. Department of Energy.

Prior to that, Stas was a Senior Research Fellow at Curtin University's Western Australian School of Mines: Minerals, Energy and Chemical Engineering. He joined Curtin's geophysics team as a Research Fellow at the beginning of 2015 and was promoted to Senior Research Fellow in 2017. He received a PhD in Geophysics in 2012 from, Lomonosov Moscow State University, and Diploma in Geophysics from Dubna University (Russia) in 2008.

Stas is a passionate geoscientist with twelve years' experience of geophysical research and teaching. His research work has involved theoretical and practical aspects of seismic reservoir characterisation, and all aspects of rock physics, seismic inversion, active/passive monitoring and machine learning.

During his six years at Curtin University, Stas co-authored 35 peer-review papers - 10 as the lead author and three as the corresponding author - in international journals in geophysics, acoustics and mechanics of materials, and one patent, which has made him an internationally recognised scholar.

One thing that differentiates Stas is a rare combination of deep theoretical insight with the expertise in diverse fields of exploration geoscience: seismic and petrophysical data analysis, reservoir simulations and petroleum engineering protocols. He utilises a multi-disciplinary approach to practical exploration geophysics problems, which combines advanced analytical models, computer simulations and statistical analysis of real data. Such an approach allowed Stas to establish accuracy limits of the time-lapse seismic and proposed new approaches to cost-effective reservoir monitoring for CO_2 storage, a very topical problem in geophysics.

Stas has also strived to serve his professional community. He has been an active and enthusiastic member of organizing committees at ASEG, EAGE and SEG annual meetings, helping in organising scientific workshops. Whilst at Curtin University, he actively supported the local ASEG WA Branch and encouraged his students to participate in the Honours/Masters projects competition run by the branch.

He served on the technical committee for AEGC 2019 in Perth where he was responsible for the seismic reservoir characterisation stream. At the same conference, he co-organised a pre-convention workshop on opportunities and applications for machine learning in exploration geophysics.

He is now a member of the SEG Advanced Modelling group (SEAM), where he is responsible for rock physics modelling related to geological storage of CO_2. He has also served as an Associate Editor of *Exploration Geophysics*, and *Acta Geophysica,* and in 2019 he became the youngest Associate Editor of *GEOPHYSICS.*

Stas is a high achiever for one just at the forefront of his career. He is a role model for younger members of the profession, and a worthy recipient of the Early Achievement Award.