

WE INVITE YOU TO PARTICIPATE!



EMS-2025

**The IX All-Russian school-workshop
on electromagnetic sounding of the Earth
named in honor of M.N. Berdichevsky, L.L. Vanyan and V.I. Dmitriev**

SECOND CIRCULAR

**September 8-14, 2025
Irkutsk, Russia**



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Dear Colleagues,

We are pleased to invite you to participate in the 9th All-Russian School-Workshop on Electromagnetic Sounding of the Earth, named in honor of M.N. Berdichevsky, L.L. Vanyan, and V.I. Dmitriev (EMS-2025).

This school-workshop has long been one of the largest forums for specialists in electromagnetic (EM) geophysical methods. With a rich history, it honors the legacy of three distinguished scientists in the field of electromagnetic sounding. In 2025, the workshop's topics will expand to include geomagnetic observations, space weather, and the electromagnetic interactions between geospheres.

EMS-2025 offers a unique opportunity for researchers, mentors, representatives from geophysical service companies, as well as graduate and undergraduate students, to showcase their achievements, discuss the future directions of electromagnetic methods, and explore the latest advancements in electromagnetic research technologies.

Venue of the event

September 8-11, 2025: scientific sessions in Irkutsk;

September 12-14, 2025: a trip to Baikal lake. It will include field demonstrations of geophysical equipment and a geological excursion.

Registration fee

There is no registration fee for participation in the scientific sessions. The banquet and the trip to Baikal lake are available for an additional fee.

Honorary presidium

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Demberel S. Academician of MAS, President of MAS (Ulaanbaatar, Mongolia)

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Organizing committee

Chairman **Seminskiy I.K.**, Ph.D., ISTP SB RAS, SIGMA-GEO
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Lozovsky I.N., GEMRC IPE RAS
Olenchenko V.V., Ph.D., IPGG SB RAS
Yakovlev A.G., Ph.D., Nord-West, MSU

Scientific sessions

| No | Name | Conveners |
|----|--|---|
| 1 | EM field measurement technologies, equipment and data processing | Yu.A. Agafonov (SIGMA-GEO), N.I. Zorin (HIT, Harbin), A.A. Shlykov (SPbSU) |
| 2 | Theory of EM sounding, forward and inverse problems | Iv.M. Varentsov (GEMRC IPE RAS), A.E. Kaminsky (Zond software, Cyprus), M.G. Persova (NSTU) |
| 3 | Study of the structure of the Earth's crust and mantle | N.A. Palshin (Institute of Oceanology RAS), A.K. Rybin (RS RAS in Bishkek), I.K. Seminskiy (ISTP SB RAS, SIGMA-GEO) |
| 4 | Oil and gas electrical exploration | E.D. Aleksanova (Nord-West), E.V. Murzina (SIGMA-GEO) |
| 5 | Mineral exploration | V.A. Kulikov (MSU, Nord-West), A.V. Parshin (INRTU), M.S. Petrishchev (SPbB IZMIRAN) |
| 6 | Geoelectrical methods for engineering-geological, hydrogeological, geocryological, environmental and archaeological research | N.Yu. Bobrov (SPbSU), I.N. Modin (MSU), V.V. Olenchenko (IPGG SB RAS) |
| 7 | Study of seismically active and geothermal zones | I.N. Lozovsky (GEMRC IPE RAS), A.V. Pospeev (IERP, IEC SB RAS), A.K. Saraev (SPbSU) |
| 8 | Space weather and EM interaction of geospheres | S.M. Korotaev (GEMRC IPE RAS), D.V. Kostarev (ISTP SB RAS) |

Exhibition and field demonstration of electric prospecting equipment

During scientific sessions in Irkutsk, an exhibition of electric prospecting equipment will be held.
A trip to Baikal lake will include field demonstration of the equipment.



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Overview reports and lectures

| No | Name | Authors |
|----|--|--|
| 1 | Airborne geophysics: history and current development trends | V.F. Kaminsky (INRTU) |
| 2 | History of development, current possibilities and examples of the application of UAV-TEM and UAV-FEM methods in combination with other methods of UAV-based geophysics | A.V. Parshin (INRTU) |
| 3 | Induced polarization of rocks: mechanisms of occurrence, laboratory measurements and limitations of the Cole-Cole formula | V.Yu. Zadorozhnaya (INRTU) |
| 4 | Inverse problems of geoelectrics, basic principles and trends | E.A. Rodionov, M.I. Shimelevich (MGRI) |
| 5 | Modern approaches to solving forward and inverse problems of geophysics using specialized Python libraries | R.D. Akhmetsafin (MGRI) |
| 6 | Continental Magnetotellurics Array in China: Reflections and Outlook | Hao Dong, Sheng Jin, Gaofeng Ye, Wenbo Wei (CUG Beijing) |
| 7 | MT studies across Mongolia. Progress status and outlook | Erdenechimeg Batmagnai (IAG MAS) |
| 8 | Current status of cryolithozone geophysics in Russia and abroad | V.V. Olenchenko (IPGG SB RAS) |
| 9 | The impact of space weather on terrestrial infrastructure | D.V. Kostarev (ISTP SB RAS) |
| 10 | Magnetotelluric sounding and electromagnetic diagnosis of the magnetosphere and lithosphere: is there a mutual benefit? | V.A. Pilipenko (IPE RAS) |

Roundtables

| No | Name | Curator |
|----|---|--|
| 1 | Standardization of EM data formats | Iv.M. Varentsov (GEMRC IPE RAS) |
| 2 | Current status and development prospects of oil and gas electrical prospecting in Siberia | Yu.A. Agafonov (SIGMA-GEO) |
| 3 | Training of EM geophysicists in Universities: history, curricula, practices, graduates | P.Yu. Pushkarev (MSU) |
| 4 | A successful EM geophysicist – who is he/she? (youth roundtable) | S.Yu. Davydenko (Gelios, ECI Tyumen Scientific Centre SB RAS) |



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Important dates

Abstract submission deadline: **May 20, 2025**. Abstracts are submitted through the School-workshop website.

Contacts

ems-2025@ya.ru - email of the Organizing Committee

<https://ems2025.gemrc.ru> - website of the School-workshop

Cooperation

The organizing committee invites sponsors to collaborate. Sponsoring companies will receive exclusive participation benefits and the opportunity to display promotional materials.

Partners



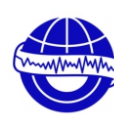
Irkutsk National Research
Technical University



Lomonosov Moscow State
University



Institute of Solar-Terrestrial
Physics, Siberian Branch of the
Russian Academy of Sciences



Schmidt Institute of Physics of
the Earth of the Russian
Academy of Sciences