

**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**

**FIFTH CIRCULAR**

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



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## Dear Colleagues,

We are pleased to invite you to participate in 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 (EMS-2025). This school-workshop has long been one of the largest forums for specialists in electromagnetic (EM) geophysical methods.

Abstracts of more than 70 reports were received for EMS-2025, most of them were declared as oral. Due to the limited time for oral reports, section conveners will be forced to convert some reports from oral to poster. Please treat this with understanding. For many presentations, a poster presentation may be more appropriate than an oral presentation and will provide more effective feedback. A dedicated time slot will be allocated for poster presentations.

### Venue of the event

**Please note that the venue for the scientific sessions has changed, the current location is: V.G. Rasputin Scientific Library (Irkutsk, Lermontov St., 126/2).** Then, for those who wish, a trip to Lake Baikal will be organized.

### Important dates

**June 15, 2025:** abstract submission deadline;  
**August 8, 2025:** program formation deadline;  
**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

**Gvishiani A.D.** Academician of RAS, scientific director of GC RAS (Moscow, Russia)  
**Demberel S.** Academician of MAS, President of MAS (Ulaanbaatar, Mongolia)  
**Epov M.I.** Academician of RAS, scientific director of IPGG SB RAS and SNIIGGiMS (Novosibirsk, Russia)

### Program committee

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## Organizing committee

Chairman **Seminskiy I.K.**, Ph.D., ISTP SB RAS, SIGMA-GEO  
Scientific Secretary **Nemtseva D.B.**, 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

<b>№</b>	<b>Name</b>	<b>Conveners</b>
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 prospecting	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 studies	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

<b>№</b>	<b>Name</b>	<b>Authors</b>
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. Akhmet safin (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

<b>№</b>	<b>Name</b>	<b>Curator</b>
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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## Contacts

[ems-2025@ya.ru](mailto: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.

## Sponsors



## Partners



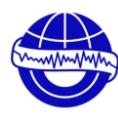
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Schmidt Institute of Physics of  
the Earth of the Russian  
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