



# 6th IAG SYMPOSIUM ON TERRESTRIAL GRAVIMETRY: STATIC AND MOBILE MEASUREMENTS

21-24 June 2022  
St. Petersburg, Russia



Dear colleagues,

IAG Symposium on Terrestrial Gravimetry: Static and Mobile Measurements will be held by Concern CSRI Elektropribor, St. Petersburg, Russia, on June 21-24, 2022.

The Symposium is supported by IAG Commission 2, Gravity Field, and is held every three years. In 2022 it will be the sixth Symposium (TG-SMM 2022).

We are planning to hold the Symposium in hybrid format (in-person plus online).

The Symposium program will include plenary and poster papers. Invited papers are also expected. Panel discussion will be possibly held.

All presentations at the Symposium will be held in English or Russian and will be simultaneously interpreted.

## INTERNATIONAL SCIENTIFIC COMMITTEE

**Chair** – Dr. Alexander Sokolov — Russia

**Co-chair** – Dr. Derek van Westrum — USA

**Members:** Prof. Akito Araya — Japan  
Dr. Sylvain Bonvalot — France  
Dr. Przemyslaw Dykowski — Poland  
Prof. Vyacheslav Fateev — Russia  
Dr. Christoph Förste — Germany  
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Prof. Vladimir Peshekhonov — Russia  
Prof. Oleg Stepanov — Russia  
Dr. Leonid Vitushkin — Russia  
Dr. Hartmut Wziontek — Germany  
Dr. Shuqing Wu — China

## THE TOPICS

**The Symposium topics include** instrumentation and methods for absolute and relative static and mobile measurement of gravity field on all kinds of mobile platforms – shipborne, airborne vehicles (airplanes, helicopters, airships), and satellites:

- absolute ballistic gravimeters (including cold atom gravimeters), relative gravimeters of all types including superconducting gravimeters;
- instrumentation for terrestrial and satellite measurement of second derivatives of gravity field potential:
  - satellite accelerometers,
  - satellite gravity gradiometers like those for GOCE,
  - K-Band measurement systems like those for GRACE and GRACE-FO,
  - spaceborne laser interferometers like those for GRACE-FO;

- new technologies, equipment, and materials for development of gravity measurement instrumentation; new methods and results in the gravity data processing including data combinations from various gravity measuring systems; unification of the file format for absolute gravity measurement;
- new results of shipborne and airborne gravity survey coverage, unified reference frame for shipborne and airborne gravity surveys;
- new results of measurement of gravity networks and the coverage of new regions;
- metrology issues in the measurement of free fall acceleration and of the second derivatives of gravity potential, application of gravity measurements to metrology, gravitational comparisons of absolute gravimeters;
- standardization and databases of absolute measurements of the gravity field;
- gravitational experiments including the measurement of the gravitational constant.

**The following topics are especially welcome** for presentation at the Symposium:

- new technologies and applications of gravity measurements such as planetary absolute and relative gravimetry;
- links between satellite and terrestrial or planetary gravity field measurements;
- applications of terrestrial gravimetry in combination with GNSS/InSAR techniques;
- gravimetry application in navigation.

### IMPORTANT DATES

**March 7, 2022** – deadline for abstract submission

**April 25, 2022** – accepted papers listed on the Symposium website

**May 20, 2022** – online registration of the Symposium participants

### SYMPOSIUM FEE

|  | before <b>May 20</b> | after <b>May 20</b> |
|--|----------------------|---------------------|
| <b>Online:</b> – full                          | <b>€ 300</b>         | <b>€ 450</b>        |
| – IAG members (a 10% discount)                 | <b>€ 270</b>         | <b>€ 400</b>        |
| – students and post-graduates (a 50% discount) | <b>€ 150</b>         | <b>€ 225</b>        |
| <b>In-person:</b> – full                       | <b>€ 450</b>         | <b>€ 600</b>        |
| – IAG members (a 10% discount)                 | <b>€ 400</b>         | <b>€ 540</b>        |
| – students and post-graduates (a 50% discount) | <b>€ 225</b>         | <b>€ 300</b>        |

The Symposium fee is paid by all the participants, both speakers and non-speakers.

### SYMPOSIUM WEBSITE

All the information about the Symposium will be available at

<http://www.elektropribor.spb.ru/en/conferences/1834/>

Please visit the website regularly for the latest updates.

Please forward this letter to any persons who could be interested in our Symposium.

We will be glad to see you among the Symposium participants.

Best regards,



A.V.Sokolov, Dr,  
Chairman of TG-SMM 2022 International Scientific Committee