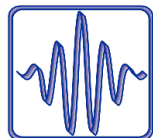


# Tomsk State University Faculty of Radiophysics



## 9th International Scientific and Practical Conference "Actual problems of radiophysics"

### FIRST INFORMATION MESSAGE

#### ORGANIZERS OF THE CONFERENCE:

- Tomsk State University (TSU).
- Faculty of Radiophysics, TSU.
- Center for Collective Use "Center for Radiophysical Measurements, Diagnostics and Research of the Parameters of Natural and artificial materials TSU".

#### TIME AND VENUE

**September 14-17, 2021, Tomsk**

#### CONFERENCE SECTIONS

- Section 1. Physics of radio waves: radiation, reception and use.
- Section 2. Radio electronics and electrodynamics of microwave, extremely high frequencies and hyper high frequencies.
- Section 3. Solid-state electronics, micro- and nanoelectronics.
- Section 4. Laser and optoelectronic systems: development, creation, application.
- Section 5. Quantum electronics and photonics.
- Section 6. Modern measuring instruments and technologies.
- Section 7. Modern problems and technologies for training specialists in the field of radiophysics, radio engineering and optics.

#### SCIENTIFIC DIRECTIONS OF THE CONFERENCE

- Physics of interaction of radio waves with inhomogeneous media and objects.
- Radiotomography and ultra-wideband sounding.
- Metamaterials, magnetic materials and nanotechnology in radiophysics and electronics.
- Nanoelectromagnetism.
- Methods and tools for measuring the electromagnetic characteristics of materials in the gigahertz and terahertz ranges.
- Materials and devices for micro-, opto- and nanoelectronics.
- Semiconductor detectors and sensors.
- Laser and optoelectronic systems in the study of materials and media.
- Computer optics, digital holography, image processing.
- Quantum electronics, photonics and nonlinear optics.
- Materials and devices for nanophotonics and nanoplasmonics.
- Nonlinear dynamics, synergetics and fractal geometry in radiophysics and optics.
- Information technology in the study of complex structures.
- Physics of the magnetosphere, ionosphere, the upper atmosphere of the Earth.
- Solar-terrestrial physics and physical ecology.
- Modern technologies of teaching radiophysical and radio engineering disciplines.

#### PROGRAM COMMITTEE

*Co-chairmen:* **V.M. Buznik** - Academician of the Russian Academy of Sciences (Moscow, Russia).

**Demin V.V.** - First Vice-Rector of TSU, Cand. phys.-mat. Sciences (Tomsk, Russia).

*Committee members:*

**Bellucci S.** - Professor, Dr. of Phys.-Math. Sciences (Frascati (Rome), Italy).

**Blaunstein N.Sh.** - Professor, Dr. of Phys.-Math. Sciences (Beer Sheva, Israel).

**Villa T.** - Professor, Dr. of Phys.-Math. Sciences (Verona, Italy).

**Izhnin I.I.** - Professor, Dr. of Phys.-Math. Sciences (Lviv, Ukraine).

**Lambin F.** - Professor, Dr. of Phys.-Math. Sciences (Namur, Belgium).

**Maksimenko S. V.** - Professor, Dr. of Phys.-Math. Sciences (Minsk, Belarus).

**Mitev V.** - Doctor of Science (Neuchâtel, Switzerland).

**Svirko Y.** - Professor (Joensuu, Finland).

**Svyatek Z.** - Professor (Krakow, Poland).  
**Smith R.** - Professor, Dr. of Phys.-Math. Sciences (Loughborough, UK).  
**Tselzard A.** - professor (Nancy, France).  
**Chang R.** - Professor, Dr. of Phys.-Math. Sciences (Taiwan).  
**Baryshnikov N.V.** - Doctor of Technical Sciences, Professor (Moscow, Russia).  
**Belyaev B.A.** - Professor, Dr. Sciences (Krasnoyarsk, Russia).  
**Voitsekhovskiy A.V.** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).  
**Dunaevsky G.E.** - Professor, Dr. Sciences (Tomsk, Russia).  
**Evtushenko N.V.** - Professor, Dr. Sciences (Tomsk, Russia).  
**Ivonin I.V.** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).  
**Yu.V. Kistenov** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).  
**Kolesnik S.A.** - Associate Professor, Cand. phys.-mat. Sciences (Tomsk, Russia).  
**Koshelev V.I.** - professor, dr. phys.-mat. Sciences (Tomsk, Russia).  
**Krutikov V.A.** - Dr. Phys.-Math. Sciences (Tomsk, Russia).  
**Lukin V.P.** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).  
**Matvienko G.G.** - Dr. Phys.-Math. Sciences (Tomsk, Russia).  
**Minin I.V.** - professor, dr. phys.-mat. Sciences (Novosibirsk, Russia).  
**Minin O.V.** - professor, dr. phys.-mat. Sciences (Novosibirsk, Russia).  
**Prudaev I.A.** - Cand. phys.-mat. Sciences (Tomsk, Russia).  
**Pchelyakov O.P.** - Professor, Dr. of Phys.-Math. Sciences (Novosibirsk, Russia).  
**Samokhvalov I.V.** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).  
**Siemens E.** - Professor, Dr. of Phys.-Math. Sciences (Anhalt, Germany).  
**Sredin V.G.** - Professor, Dr. of Phys.-Math. Sciences (Moscow, Russia).  
**Tarasenko V.F.** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).  
**Tikhomirov A.A.** - Doctor of Technical Sciences, Professor (Tomsk, Russia).  
**Tolbanov O.P.** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).  
**Filimonov S.N.** - Associate Professor, Ph.D. (Tomsk, Russia).  
**Shchukin G.G.** - Professor, Dr. of Phys.-Math. Sciences (St. Petersburg, Russia).  
**Yakubov V.P.** - Professor, Dr. of Phys.-Math. Sciences (Tomsk, Russia).

#### ORGANIZING COMMITTEE

*Chairman of the organizing committee:* **A.G. Korotaev**, dean of the Russian Federation, Ph.D. phys.-mat. Sciences (Tomsk, Russia).

*Co-chairman:* **Yurchenko A.V.**, professor, Dr. Sciences (Tomsk, Russia)

*Deputy Chairmen:* **Shipilov S.E.**, professor, doctor of physics and mathematics. Sciences (Tomsk, Russia).

*Scientific Secretary:*

*Members of the organizing committee:* **Belichenko V.P.** - Professor, Dr. of Phys.-Math. sciences; **Kokhanenko A.P.** - Professor, Dr. of Phys.-Math. sciences; **Olshukov A.S.** Associate Professor, Ph.D.; **Kochetkova T.D.** - Associate Professor, Ph.D.; **Satarov R.N.** - scientific. sotr, Ph.D.; **A. V. Klovov** - Associate Professor, Ph.D.; **Badin A.V.** - Associate Professor, Ph.D.; **Bryukhanova V.V.** - Associate Professor, Ph.D.; **Khmelev V.L.** - engineer, Ph.D. student of RFF TSU; **Roslyakov S.N.** - Ph.D. student of RFF TSU; **E.A. Krasilova** - Art. teacher; **O. V. Kharapudchenko** - Art. teacher.

The organizing committee in each section holds a competition of scientific reports of students, graduate students and young scientists. The best reports will be awarded with diplomas.

#### Publications

Following the results of the conference, it is planned for publication:

- a collection of abstracts with subsequent placement in the national bibliographic database of scientific citation RSCI. The design rules are presented on the site.
  - a collection of articles indexed in the Scopus database (paid separately)
- Detailed information on publications will be provided in the second newsletter.

#### REGISTRATION FEE

Payment of the registration fee is carried out after notification of the acceptance of the report for the conference **until June 30, 2021**. **The registration fee for participants includes payment for:** programs, conference materials, participation in the work of sections, tea and coffee during the breaks of the work of sections, a buffet table.

	Early (before June 30), RUB	Late (after June 30), RUB	During the conference, RUB
<b>Participants</b>	<b>5 000</b>	<b>7 000</b>	<b>10 000</b>
<b>Students, postgraduates</b>	<b>3 000</b>	<b>4 000</b>	<b>5 000</b>

#### HOW TO TAKE PART IN THE CONFERENCE

Information about the conference is presented on the website <http://apr.tsu.ru>.

Those wishing to take part in the conference should fill out the registration form on the conference website from **March 1 to May 30 2021** inclusive and submit the thesis of the report.

### Information for registration for participation in the conference "APR - 2021"

Surname, name, patronymic of the speaker, position, academic title, academic degree, date of birth (DD.MM.YYYY):	
Surname, name, patronymic of co-authors, position, academic title, academic degree:	
Country, city (for all coauthors):	
Organization (for all coauthors):	
Contact e-mail:	
Contact number:	
Form of participation (full-time, part-time):	
The title of the report, the names of the authors and a short annotation in Russian:	
The title of the report, the names of the authors and a short abstract in English:	
Section number and name:	

Authors are invited to create final electronic versions of abstracts at [apr@mail.tsu.ru](mailto:apr@mail.tsu.ru) no later than **May 30, 2021**. **Abstracts not drawn up according to the rules or received later are not accepted.** The organizing committee will send the second notification (about the inclusion of the report in the program) no later than **June 10, 2021**. In the third (final) notification, which is sent by e-mail no later than **July 15, 2021**, it is reported about the conference on the scientific program, the procedure for registration and events.

The conference will include

#### **Student projects competition "Radiophysics and Electronics. RaE-2021"**

Information about the rule of participation is presented on the website <http://apr.tsu.ru/exhibition/?lang=ru>

#### **Seminars and presentations of firms - developers of measuring equipment and instruments**

information on the program of seminars and presentations will be announced additionally.

#### **TOURIST, EXCURSION AND CULTURAL PROGRAMS**

Excursions around Tomsk and museums of Tomsk State University will be organized for the participants. The opportunity will be given to visit scientific laboratories and departments of the Faculty of Radiophysics.

#### **WAIT FOR YOUR OFFERS**

Организационный комитет приглашает принять активное участие в подготовке и проведении конференции и всех мероприятий, связанных с АПП. Объединив усилия, мы сможем сделать нашу конференцию более интересной и полезной.

#### **SPONSOR OFFERS**

We invite national and international sponsors for financial, informational and other types of support of the conference. The following features are offered:

- to include representatives in the composition of the Organizing Committee;
- place the logo and name of the company on the materials of the conference;
- include in the conference program the scientific direction of interest to the sponsor;
- put up a product and hold a presentation of materials;
- to organize scientific and practical seminars on topics of interest to the sponsor in the framework of the conference;
- include advertising materials in the information package of the conference participant;
- to place in the collection of reports of the conference advertising materials about the sponsor's products and projects.

#### **CONTACT ADDRESSES AND PHONES:**

Mailing address for correspondence: 634050, Tomsk, Lenin Ave., 36, TSU, RFF

Actual address: 634012, Tomsk, st. Lytkina, 28 g, educational building No. 11 TSU, RFF

Conference website: <http://apr.tsu.ru>

**Alexey Yurchenko, telephone** +7-913-826-0301, e-mail: [niipp@inbox.ru](mailto:niipp@inbox.ru)

**Roslyakov Sergey, telephone** +7-952-880-0465, e-mail: [apr@mail.tsu.ru](mailto:apr@mail.tsu.ru)