



# EFRE 2018

## International Congress ENERGY FLUXES AND RADIATION EFFECTS

Tomsk, Russia  
September 16–22, 2018

General Chairman  
**Gennady Mesyats**  
Russian Academy of Sciences

### Conferences and Topics



#### 20<sup>th</sup> International Symposium High-Current Electronics

- Intense electron and ion beams
- Pinches, plasma focus and capillary discharge
- High power microwaves
- Pulsed power technology
- Pulsed power applications
- Discharges with runaway electrons



#### 18<sup>th</sup> International Symposium Radiation Physics and Chemistry of Condensed Matter

- Luminescence: processes, luminescence centers, scintillators and luminophores, application
- Non-linear physicochemical processes under severe energetic impact: breakdown, fracture, explosion, etc.
- Physical principles of radiation and photonic technologies
- Radiation defects: structure, formation, properties
- Methods, instruments and equipment for physicochemical studies



#### 14<sup>th</sup> International Conference on Modification of Materials with Particle Beams and Plasma Flows

- Beam and plasma sources
- Fundamentals of modification processes
- Modification of material properties
- Coatings deposition
- Nanoscience and nanotechnology



#### 3<sup>rd</sup> International Symposium New Materials and High Technologies

- Non isothermal methods for materials synthesis
- Combustion waves: theory and experiment
- Functional materials and coatings

### Important dates

**January 15, 2018**

Open on-line registration  
Open abstract submission

**March 18, 2018**

Abstract submission deadline

**April 02, 2018**

Open manuscript submission

**May 20, 2018**

Manuscript submission deadline



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**The Congress is hosted by**

Institute of High Current Electronics SB RAS  
Tomsk Scientific Center  
National Research Tomsk Polytechnic University



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