

XVI International Symposium on Self-propagating High-temperature Synthesis



SHS 2024

September 9-13, 2024, Yerevan

With the arrival of autumn in sunny Armenia, we are pleased to invite you to the XVI International Symposium on “Self-propagating High-Temperature Synthesis” (SHS) to be held on September 9-13, 2024 in Yerevan, Armenia.

The Self-propagating High-Temperature Synthesis conference serves as a pivotal platform for experts, researchers, and enthusiasts from around the world to converge and delve into the latest advancements, breakthroughs, and challenges in this dynamic field. SHS, with its unique ability to rapidly produce materials with exceptional properties, has become a cornerstone in diverse applications ranging from advanced ceramics to energetic materials.

The conference has a purpose to embark on a journey of exploration and collaboration in the fascinating realm of materials science and synthesis techniques. This conference not only aims to highlight the current state of SHS research but also seeks to spark new collaborations and inspire innovative ideas. The synergy created by bringing together minds from academia, industry, and research institutions is bound to catalyze advancements that will shape the future of Self-propagating High-Temperature Synthesis.

1st Announcement

Symposium Topics:

- Combustion theory and modeling
- Kinetics and mechanisms of chemical and structure transformations
- Solution combustion synthesis
- Mechanically activated SHS systems
- SHS in thin films
- Consolidation, hybrid and additive technologies: SHS + (SPS, HIP, HP, SLS, shock-assisted etc.)
- Functional SHS-materials: bio, catalytic, energetic, magnetic, electronics, optics, etc.
- Explosive production of new materials
- Refractory and ultra-high-temperature materials
- SHS in metallurgy, welding, soldering
- SHS in surface engineering
- High entropy materials
- Application and industrialization.

Symposium Website:

<https://ipr.sci.am/SHS-2024/>

Registration

The conference fee:

Early bird registration (before June 15, 2024) is 500 € and for students is 120 €, **standard registration (after June 15, 2024)** is 600 € and for students is 120 €.

For accompanying person it is 120 €. The conference fee includes: conference kit, coffee breaks, lunches during the conference, and social events (the excursion out of city, welcome party, symposium dinner). Registration and Abstract Submission opens on January 31, 2024.

Deadline: **April 1, 2024.**

Conference Program

Updated on a daily basis since April 1st, 2024

Plenary Speakers

To be announced

Invited Speakers

To be announced

Organizers



Institute for Physical Research of
National Academy of Sciences of
Armenia
www.ipr.sci.am



Institute of Chemical Physics of
National Academy of Sciences
of Armenia
<https://ichph.am/>



Institute of Structural
Macrokinetics and Materials
Science of RAS (ISMAN)
<https://www.ism.ac.ru/>

Social Program

The social program will include tours to Brandy factory, Greco-Roman colonnaded Temple of Garni, medieval monastery Geghard, and Etchmiadzin Cathedral - perhaps the first cathedral of the world (but not the first church) built in ancient Armenia.

<http://armenia.travel/en>

Contact info

Chair Organization Committee:

Dr. Aram Manukyan

Secretary:

Armenuhi Sargsyan, Armenia
Anastasia Bolotskaia, Russia

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Venue

National Academy of Sciences
of Armenia, Yerevan, Armenia