

охватывающие широкий круг вопросов по физике, технике и применению полупроводниковых лазеров, включая лазерные диоды, лазеры с электронным и оптическим возбуждением, а также по другим типам источников и приёмников излучения, по технологии полупроводниковых материалов, гетероструктур и разнообразных оптоэлектронных устройств на их основе.

Рабочие языки:
русский и английский.

Расписание:
27.05.2019 г.: прибытие, регистрация, открытие семинара, устные секции.
28.05.2019 г. – 30.05.2019 г.: устные секции, стендовая секция.
31.05.2019 г.: устные секции, закрытие семинара.

Важные даты:

Предварительная регистрация для участия в семинаре должна быть проведена не позже 01.04.2019.
Предусмотрена культурная программа.

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10th International Meeting “Photosynthesis and Hydrogen Energy Research for Sustainability – 2019”

from 23 to 28 June, 2019 / St. Petersburg, Russia

Dear Colleagues, we are pleased to cordially invite you to 10th International Meeting “Photosynthesis and Hydrogen Energy Research for Sustainability – 2019” in honor of Kimiyuki Satoh (Japan), Tingyun Kuang (China), Cesare Marchetti (Italy) and Anthony Larkum (Australia).

Your participation is important for the success of the Meeting, and will be very much appreciated. This Meeting will be a great occasion for discussions of previous, present, and future research on photosynthesis and hydrogen energy, from molecular to global, and will provide an exciting scientific program, which will cover the breadth and depth of photosynthesis and hydrogen energy, and to meet researchers of photosynthesis and hydrogen energy from around the world. This meeting will provide a forum for students, postdoctoral fellows and scientists from different countries to deepen their knowledge and understanding, widen professional contact, to create new opportunities and establish new collaborations.

From late May to early July nights are bright in Saint Petersburg, but the real White Nights normally last from June 11 to July 2. The nature of the White Nights (Beliye Nochi) can be explained by the geographical location of Saint Petersburg. It is the world’s most northern city with a population over 5 million.

Conference program

The Conference will start on June 23 with the Opening Ceremony and Felicitation to Kimiyuki Satoh, Tingyun Kuang, Cesare Marchetti and Anthony Larkum.

The Conference will feature the Scientific Programme, “Get together evening”, Banquet and a tour of St. Petersburg.

The Scientific Programme will include daily Plenary Lectures on Photosynthesis and Hydrogen Energy, Keynote Lecture Sessions and Selected Talk Sessions, as well as the Poster Viewing and Selected Talks for Best Posters of Young Scientists.

The meeting will cover the following **topics**:

1. Photosynthesis Research for Sustainability:

- 1.1. Primary Processes of Photosynthesis
- 1.2. Structure, Function and Biogenesis of the Photosynthetic Apparatus
- 1.3. Photosystem I and Bacterial Photosynthesis
- 1.4. Photosystem II and Water Oxidation Mechanism
- 1.5. Energy Transfer and Trapping in Photosystems
- 1.6. Plant Development and Growth Regulation
- 1.7. Carbon Fixation (C₃ and C₄) and Photorespiration
- 1.8. Artificial and Applied aspects of Photosynthesis including Nanotechnology
- 1.9. Regulation of Photosynthesis, ROS production and Environmental Stress
- 1.10. Systems Biology of Photosynthesis: Integration of Genomic, Proteomic, Metabolomic and Bioinformatic Studies
- 1.11. Plant Mineral Nutrients and Photosynthetic Capacity
- 1.12. Photosynthesis Education and Emerging Techniques for Studying Photosynthesis including Neutron Scattering

2. Hydrogen Energy Research for Sustainability:

- 2.1. Energy for the Future – Hydrogen economy
- 2.2. Elevating Climate Change
- 2.3. Biological Hydrogen Production
- 2.4. Hydrogenases
- 2.5. Proton Reduction Catalysts
- 2.6. Reduction of Carbon Dioxide
- 2.7. Artificial Photosynthesis for Hydrogen energy
- 2.8. Nanotechnology in Fuel Cells
- 2.9. Nanomaterials for Hydrogen Production
- 2.10. Hydrogen Energy Education and Emerging Techniques for Studying of Hydrogen Energy

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