



# ICSQE 2018

20<sup>th</sup> International Conference and School on  
Quantum Electronics: "Laser Physics and Applications"  
17-21 September 2018  
Nessebar, Black Sea Coast, Bulgaria



## CONFERENCE TOPICS

- \* Laser-matter interactions
- \* Laser spectroscopy and metrology
- \* Laser remote sensing and ecology
- \* Lasers in biology and medicine
- \* Laser systems and nonlinear optics

## MORE INFORMATION

at: <http://www.isqe2018.ie-bas.org/>

## INVITED TALKS

**Prof. Paras N. Prasad**

**General Plenary lecture**

*Convergence of science: Linking photonics with nanotechnology and biomedicine to impact health care*

### \* Laser-matter interactions

**Prof. Gerard Sliwinski**

*Spintronic thin films by laser deposition*

**Prof. Philippe Delaporte**

*Digital laser nanoprinting*

**Prof. Mitsuhiro Terakawa**

*Femtosecond laser processing for fabrication of metal/polymer composite microstructures*

**Dr José Gonzalo de los Reyes**

*Optically active nanostructures assembled by pulsed laser deposition*

### \* Laser spectroscopy and metrology

**Prof. Emilio Mariotti**

*Dark matter search by laser spectroscopy*

**Prof. Igor Ryabtsev**

*Rydberg atoms and quantum information*

**Prof. Tigran Vartanyan**

*Nonlinear spectroscopy of spatially restricted alkali vapours*

**Prof. Daniel Bloch**

*Vapor at an interface: how does it deviate from an ideal Maxwell-Boltzmann gas*

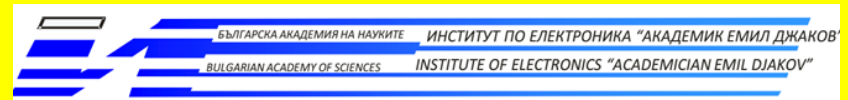
### \* Laser remote sensing and ecology

**Dr Shlomo Fastig**

*Laser remote sensing – overview and applications*

**Dr Valentin Mitev**

*Elastic backscatter lidar in PBL study*



## IMPORTANT DATES

**Conference registration:**

Reduced fee will apply to registrations confirmed by:

**Conference and Exhibition start:**

**July 20, 2018**

**September 17, 2018**

## CONFERENCE VENUE

Hotel "Sol Marina Palace" in **Nessebar** (Bulgarian Несебър), an ancient town and seaside resort located 35 km north of Burgas on the Black Sea Coast of Bulgaria. Due to the city's abundance of historic buildings, UNESCO came to include Nessebar in its list of World Heritage Sites in 1983.

## SCAN TO CONNECT



**Chair: Prof. Dr. Sc. Latchezar Avramov**

**Secretary: Dr. Elena Krasteva**

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The Proceedings of this conference will be published in the SPIE Digital Library with over 470,000 papers from other outstanding conferences and SPIE Journals and books from SPIE Press.

**Dr Valentin Simeonov**

*Lidars in environmental research and meteorology – an overview*

**Dr Anatoli Chaikovskiy**

*Implementation of synergetic observations by terrestrial and space radiometer and lidar systems for study of large scale aerosol changes*

### \* Lasers in biology and medicine

**Prof. Alexandros – Panagiotis Andreas Serafetinides**

*Towards bridging non-ionizing, ultra intense, laser radiation and ionizing radiation in cancer therapy*

**Prof. Janis Spigulis**

*Laser applications for in-vivo skin diagnostics*

**Dr Heidi Declercq**

*Bioprinting with cellular spheroids and smart biomaterials*

### \* Laser systems and nonlinear optics

**Prof. Vladimir Serkin**

*Nonlinear optical hydrodynamics: from solitonic extreme events in fibers to higher-order matter waves in BEC and rogue monster waves in oceans*

**Prof. Jean-Claude Kieffer**

*Control of non linear optical process at relativistic laser intensity for applications of high peak and high average power femtosecond laser systems*

**Dr Peter J. Mosley**

*Fibre-based single-photon sources: the nonlinear route to nonclassical light*

**Dr Kristina Rusimova**

*Design, fabrication and properties of antiresonant hollow core fibres*