



**IV International School and Conference on Photonics  
Belgrade, Serbia, August 26 - 30, 2013,**  
Institute of Physics, Pregrevica 118, 11080 Belgrade, Serbia  
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[www.photonica.ac.rs](http://www.photonica.ac.rs)

## **Second Announcement**

*Dear Colleagues,*

We wish to invite you to participate at the International School and Conference on Photonics – **PHOTONICA'13** which will take place in **Belgrade, Serbia, from 26<sup>th</sup> until 30<sup>th</sup> August 2013**, and will be organized by the Institute of Physics, Belgrade in collaboration with the Serbian Academy of Sciences and Arts.



Following the three of our successful bi-annual conferences, this year we are organizing the meeting promising to showcase the latest results in all areas of photonics research. The scientific program will cover the latest trends and results in experimental and theoretical photonics research with special sessions devoted to applications of grapheme and biophotonics. We are aiming to bring together not only researchers from academic institutions, but also from industry.

### **Topics**

- Optical materials
- Metamaterials
- Photonic crystals
- Plasmonics
- Quantum optics
- Quantum informatics
- Ultracold systems
- Nonlinear optics
- Lasers, laser spectroscopy
- Laser induced material modifications
- Biophotonics
- Optoelectronics and optical communications
- Holography

### **Important dates**

**Abstract submission: until June 20, 2013**

**Early registration fee: until June 20, 2013**

**Notification of abstract acceptance:  
from July 1, 2013**

**\* Manuscript submission:  
until August 20, 2013**

\*See subtitle **Manuscripts** for more information.

## **Scientific Committee**

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Boris Malomed, Israel  
Branislav Jelenković, Serbia  
Dejan Milošević, Bosnia and Herzegovina  
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Dragan Indjin, United Kingdom  
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Kurt Hingerl, Austria  
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Ljupčo Hadžievski, Serbia  
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Milivoj Belić, Qatar  
Nikola Burić, Serbia  
Paul Harrison, United Kingdom  
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Sergei Turitsyn, United Kingdom  
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## **Organizing Committee**

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Miloš Živanov

### **School of Electrical Engineering, Belgrade**

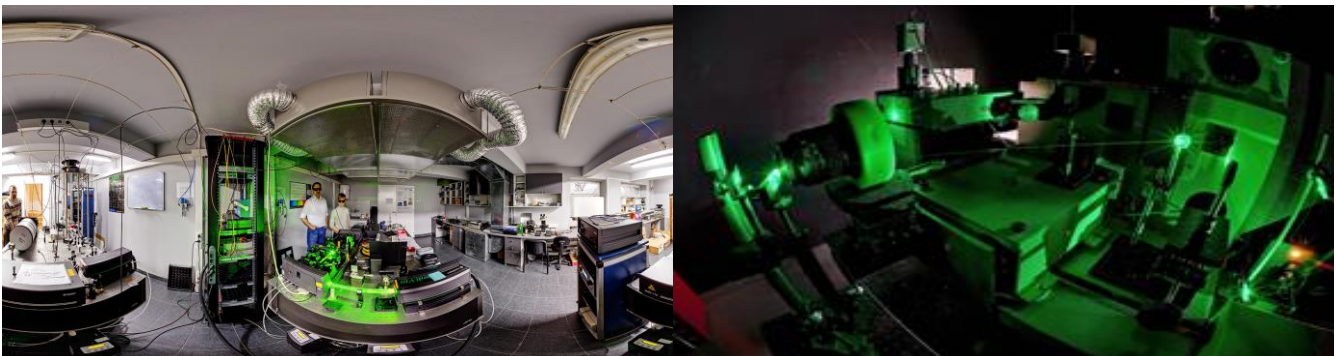
Jelena Radovanović  
Pedja Mihailović  
Jovan Elazar

### **Faculty of Physics, Belgrade**

Bratislav Obradović

## **Host**

The Institute of Physics (IPB) – Belgrade (<http://www.phy.bg.ac.rs/index.php/en/>) is the host of this year's conference **PHOTONICA'13**. It is a leading Serbian research institution founded in 1961. as part of the University of Belgrade. Presently, it is a workplace for around 250 employees of whom 128 researchers with PhD and more than 70 PhD and master students. The main research



activities of the IPB are in the fields of Atomic and Molecular Physics, Condensed Matter Physics and Material Science, Physics of Plasma and Gas Discharge, Particle Physics and Nuclear Physics, with smaller groups in Geo- and Astrophysics. Owing to their exceptional research results, several laboratories are recognized by the Ministry of Education, Science and Technological development of Serbia as “Centers of Excellence”. IPB also prides itself on its powerful Scientific Computing laboratory which is a member of the PRACE (Partnership for Advanced Computing in Europe) network, facilitating research for many other centers and groups in Serbia and abroad.

### Venue

The Conference will take place in the Serbian Academy Sciences of and Arts (SASA; <http://www.sanu.ac.rs/English/Index.aspx>) building, located in the city center, in the Knez Mihajlova street, which is the main pedestrian and shopping street. There are many hotels, restaurants, parks and tourist sites within walking distance from the conference venue.



For more information about the events and places of interest please follow this link: <http://www.belgradenet.com/places-to-go/>

### Speakers

(TBA – title to be announced; \* - waiting for final confirmation)

#### **Rudolf Rigler**

Karolinska Institute, Stockholm, Sweden  
"Fluorescence Correlation Spectroscopy"

#### **Jean Dalibard**

Laboratoire Kastler Brossel at Ecole normale supérieure, French Academy of Sciences, Paris, France

TBA

#### **Thomas Klar**

Institute of Applied Physics, Linz, Austria

TBA

#### **Andrea Ferrari**

University of Cambridge, Cambridge, UK

TBA

#### **Laszlo Forro \***

Laboratory of Nanostructures and Novel Electronic Materials, EPFL, Lausanne, Switzerland

TBA

#### **Nasser Peyghambarian**

College of Optical Sciences, Arizona State University, USA

TBA

#### **Arno Rauschenbeutel**

Institute of Atomic and Subatomic Physics, Vienna University of Technology, Austria  
*"Micro and Nanofiber Photonics and Quantum Optics"*

**Jian-Rong Gao**

Delft University of Technology, The Netherlands  
*"Wavefronts of 3rd order distributed feedback THz quantum cascade lasers"*

**Roberto Morandotti**

INRS-EMT, Varennes, Canada  
TBA

**Davide Bleiner**

University of Bern, Switzerland  
*"Short-Wavelength Plasma Radiation for Table-top Nano-Inspection"*

**Maurizio Ferrari**

CNR-IFN, Istituto di Fotonica e Nanotecnologie - Trento Gruppo CSMFO, Italy  
*"Glass-Based Sub-Wavelength Photonic Structures"*

**Carlos J. Zapata Rodriguez**

University of Valencia, Spain  
*"Subwavelength beams with polarization singularities in plasmonic metamaterials"*

**Liudmila Uvarova**

Moscow State University of Technology "STANKIN", Russia  
*"The Movement of Molecules and Nanoparticles in Potential Field with the Casimir Force in Nano Volumes with Optical Different Boundaries"*

**Andrea Fratolocchi**

KAUST, Saudi Arabia  
*"A brief lecture on complexity-driven photonics: from chaotic energy harvesting to light condensation effects"*

**Karoly Osvay**

University of Szeged, Hungary  
TBA

**Christoph Menzel**

Institute of Applied Physics, Jena, Germany  
TBA

**Calin Hrelescu**

Institute of Applied Physics, Linz, Austria  
TBA

**Emmanuele Cappelluti**

ICMM-CSIC, Madrid, Spain  
*"Infrared Photon Activity and Fano Interface in Multilayer Graphenes"*

**Ekaterina Orlova**

Nizhny Novgorod, Russia  
*"Optimization of coupling of radiation from THz quantum cascade lasers"*

**Dragan Indjin**

Faculty of Engineering, Leeds, UK  
TBA

**Hanne Ludvigsen**

Micronova, Finland  
TBA

**George A. Stanciu**

University "Politehnica" of Bucharest, Romania  
TBA

**Laurent Sanchez-Palencia**

Ecole Polytechnique, Paris, France  
TBA

**Branka Jokanović**

Institute of Physics, Belgrade, Serbia  
TBA

**Milan L. Mašanović**

Freedom Photonics LLC - University of California, Santa Barbara, US

*"Recent Advances in InP based Photonic Integrated Circuits"*

**Ellen Backus**

Max Planck Institute for Polymer Research, Mainz, Germany

*"Ultrafast structural dynamics of membrane-bound water molecules revealed by two-dimensional surface-specific vibrational spectroscopy"*

**Axel Pelster**

Department of Physics and Research Center OPTIMAS, Technical  
University of Kaiserslautern, Germany

TBA

**Roman Gorbachev**

School of Mathematics, The University of Manchester, UK

TBA

**Eugene Bortchagovsky**

Institute of Semiconductor Physics of the National Academy of Sciences of Ukraine, Kiev, Ukraine

TBA

**Tomaš Šíkola \***

Brno Institute of Technology, Czech Republic

TBA

**Josef Humlíček \***

Faculty of Science, Masaryk University, Brno, Czech Republic

TBA

**Mahmoud Fallahi**

College of Optical Sciences, The University of Arizona, USA

*"Two color high power vertical external cavity surface emitting lasers for THz generation"*

### **Preliminary Program**

The opening ceremony will take place in the main lecture hall in the SASA (in Serbian: SANU) building on Monday 26th August from 9 to 9:30 am.

Lectures are starting at 9:00 every day except on the first day of the Conference when the start will be after the Opening Ceremony, at 9:30 am.

First lecture every morning will be a Plenary/Tutorial Lecture of two times 45 minutes with a ten-minute break in between for questions and discussions.

First lecture of the afternoon session will be a Keynote lecture of 45 min.

Invited talks (30 min) will follow Plenary and Keynote Lectures, while the short talks (15 min) – Progress Reports – will be closing the afternoon session each day.

Welcome reception & Cocktail is planned for the first day of the Conference at 7:30 pm and the Conference Dinner on Wednesday, 28<sup>th</sup> August at 8:00 pm, after the Excursion on Wednesday afternoon.

Coffee breaks will be taking place at the SASA cafeteria. However, lunches are not provided.

Conference participants will be free during two hours around noon to choose among numerous restaurants and cafés within 5-10 min walking distance from the conference site.

Poster sessions will be organized on Tuesday and Thursday from 6 until 8 pm.

Further details of the program schedule and updates can be found on the conference web site:

<http://www.photonica.ac.rs>

### **Registration and payment**

**Please register before submitting the Abstract!** As mentioned above, deadline for abstract submission and early registration payment is **June 20th 2013**. Instructions for abstract submission are given at: <http://www.photonica.ac.rs/index.php/abstract-submission>, together with the template.

All contributions from speakers and selected papers from all other participants will be published in a special issue of *Physica Scripta*.

Instructions for poster preparation will be posted in the Third Announcement in August.

We are not in position to accept any on-line credit card or check payments sent by mail, therefore we kindly ask all participants to use the bank transfer service to the account quoted at: <http://www.photonica.ac.rs/UserFiles/PaymentInstructionsPhotonica2013.pdf>

All payments from local participants should be made in RSD according to the current mean exchange rate from the National Bank of Serbia. Payments from outside Serbia should be made in EUR with no transfer fees charged to the Organizers of PHOTONICA'13. Conference fees are the following:

|   | Before June 20, 2013 | After June 20, 2013 |
|---|----------------------|---------------------|
| <b>Members of the EPS or affiliated societies</b> | 250€                 | 300€                |
| <b>Non-members</b>                                | 300€                 | 350€                |
| <b>Students</b>                                   | 120€                 | 150€                |
| <b>Accompanying persons</b>                       | 50€                  | 70€                 |

*Members of Optical Society of Serbia are entitled to discount in conference fees. Ask the Organizers for details.*

**Conference fee includes:** all sessions, coffee breaks, Welcome Reception & Cocktail, Conference dinner, conference material including Book of Abstracts of all talks.

**Accompanying persons' fee** includes Welcome Reception & Cocktail, Conference dinner, and the conference material without the Book of Abstracts.

**Please note:** Only contributions where at least one author paid the registration fee will be published in the Book of Abstracts or in the special issue of *Physica Scripta*.

### **Manuscripts**

Manuscripts will be limited to eight pages for Plenary/Tutorial speakers, six pages for all other speakers, and up to four pages for all other participants who wish to submit a paper for publication in *Physica Scripta* (manuscripts from non-speakers will be reviewed and only selected papers will be published). Please refer to "Guidelines for Authors" at <http://atom.iop.org/atom/help.nsf/0/BB0C7FB81A28560B8025701F005AA63E?OpenDocument> for the instructions on how to prepare your paper for submission.

### **Travel & Accommodation**

The conference venue is in the very centre of Belgrade, about 16 km from the Airport "Nikola Tesla", 2 km from the Central Railway station and 1.5 km from the Central Bus station. It is not recommended to drive in the city centre due to heavy traffic and difficulties in finding a parking spot. It is much more convenient to use public transport or taxi service.

There are many hotels of different standard in the close proximity of the SASA building. Depending on your taste and willingness to walk, the price range is from 50 to 200 EUR for a double bedroom. You can refer to our list of hotels given at: <http://www.photonica.ac.rs/index.php/accomodation>. Although it contains a wide range of hotels within walking distance from the conference venue, the list is not exhaustive. A very good place where you can look further is the following link <http://www.tob.rs/en/stay.php?kat=1>.

### **Social events**

Belgrade is a lively city in the summer! Temperatures during the day can be rather high (over 30 °C), but evenings are pleasantly warm (mid-twenties) inspiring many people to go out to restaurants, clubs or just for a walk in the city centre or along the rivers Danube and Sava. Apart from the Welcome Reception and the Conference dinner, we will organize a short excursion to historic places nearby Belgrade. More details about this trip will be given in the Third Announcement in August.

***We would greatly appreciate if you could forward this information to the colleagues who might be interested to take part in our Conference.***

We are looking forward to seeing you at **PHOTONICA'13** in August 2013.

Kind regards,  
Organizing Committee