

Invited Lectures

Jacques Baudon (France) Elastic and inelastic scattering of fast and slow metastable atoms by micro- and nano-structures

Joachim Burgdorfer (Austria) Interaction of ultrashort laser pulses with clusters: short-time dynamics of a nanoplasma

Stefano Ciovi (Italy) Plasma diagnostics in the Active Galactic Nuclei environment

Emanuela Danezis (Greece) The peculiar absorption/emission lines phenomena from stars to quasars

Nikolay A. Dyatko (Russia) Jumps and bi-stability effects in low temperature plasmas

Albert Ellingboe (Ireland) Assessing plasma source technology for manufacturing

Juergen Fassbender (Germany) Ion beam modifications of magnetic films

Timo Gans (Germany) Diagnostics for the Dynamics of Power Dissipation in Technologically used Plasmas

Bill Graham (UK) Atmospheric pressure glow discharges

Russell Gwilliam (UK) Vacancy engineering for the production of ultra shallow junctions

John Douglas Hey (South Africa) Spectroscopic studies of atomic and molecular processes in the edge region of magnetically confined fusion plasmas

Sergej Kuhlevski (Hungary) Soft-x-ray Ar+8 lasers by non-ablative slow Z-pinch in 0.5-m capillaries: Experiment and theory

Klaus-Peter Lieb (Germany) Gloomy quartz: electroluminescence in ion-irradiated and epitaxially recrystallizing quartz

Manon Lourenco (UK) Microstructural influence on electroluminescence of silicon light emitting diodes

Charlie Mahony (UK) Medium and small scale plasmas for nanotechnologies at the UU Nanotechnology Research Institute

Nigel J Mason (UK) Probing radiation damage at the molecular level

François Mathis (France) Unusual applications of ion beam analysis for the study of surface layers on materials relevant to cultural heritage

Vladimir Mezentsev (UK) Role of plasma in femtosecond laser pulse propagation

Tomohiro Morisaki (Japan) Effect of Magnetic Field Topology on Edge Plasma Behavior in LHD Heliotron

Osamu Motojima (Japan) Frontier of Fusion Research: Path to the Steady State Fusion Reactor by Large Helical Device

Valentin Ostrovsky (Russia) Threshold laws for multiple ionization of atoms

Svetozar Popović (USA) Aerodynamic effects in weakly ionized gas: phenomenology and application

Jan Dusan Skalny (Slovakia) Spectra of ions produced by corona discharges

Richard Taieb (France) IR vs. X-rays strong field atomic physics

Ronald White (Australia) Non-equilibrium electron transport in gases

Progress Reports

Aleksandra Andjic (BiH) Analysis of short period acoustic waves in the solar atmosphere

Daniel Caceres (Spain) Aminoacid formation by electron irradiation

Cormac Corr (France) Transition from unstable electrostatic confinement to stable magnetic confinement in a helicon reactor operating with Ar/SF₆ gas mixtures

Marco Gigosos (Spain) Study on the asymmetry of the Balmer lines

Milivoje Ivković (Serbia) Optical emission spectroscopic techniques for low electron density diagnostics

Predrag Jovanović (Serbia) Microlensing signatures in spectra of quasars: X-ray radiation

Predrag Krstić (USA) Chemical sputtering at the fusion-plasma facing carbon surfaces

Kinga Kutasi (Portugal) Modelling of a post-discharge reactor used for plasma sterilization

Violeta Lazić (Italy) Laser-induced plasma spectroscopy: principles, methods and applications

Joana Marler (USA) High resolution cross section measurements using a trap based positron(electron) beam

Jorge Mahecha (Colombia) Quantum and classical description of H atom under magnetic field and quadrupole trap potential

Čedomir Maluckov (Serbia) Investigation of the statistical nature and structure of the electrical breakdown time delay in gas diodes filled with neon

Stefan Matejcik (Slovakia) Electron attachment and electron impact ionization of simple aminoacids

Velimir Milinović (Germany) Ion beam mixing at crystalline and amorphous Si/Fe interfaces

Aleksandar Milosavljević (Serbia) Electron interaction with DNA deoxyribose analogue molecules

Jovana Petrović (UK) Plasma Assisted Inscription of Photonics Components in Dielectrics

Igor Savić (Serbia) Some Routes in Forming C₃H_n⁺ ions and deuterated variants under interstellar conditions

Olivera Šašić (Serbia) Electron transport coefficients and scattering cross sections in CH₄, HBr and in mixtures of He and Xe



[Http://www.spig2006.phy.bg.ac.yu](http://www.spig2006.phy.bg.ac.yu)

SECOND ANNOUNCEMENT

23rd Summer School and International Symposium

on the Physics of Ionized Gases

Kopaonik
Serbia
August 28th – September 1st, 2006

Institute of Physics
P.O. Box 68
Pregrevica 118, Zemun, 11080 Belgrade
Serbia

spig2006@phy.bg.ac.yu

General Information

23rd Summer School and International Symposium on the Physics of Ionized Gases (SPIG) will be held in the mountain resort of the National Park Kopaonik in Serbia, from Monday, August 28 through Friday, September 1, 2006. The Conference will be organized by the Institute of Physics, Belgrade.

Scientific Programme

Programme of the Conference will consist of Invited Lectures (40 min), Topical Invited Lectures (30 min), Progress Reports (20 min) and Contributed Papers (oral and poster presentations). The Proceedings of Contributed Papers with abstracts of Invited Lectures and Progress Reports will be available at the Conference, while the Book of Invited Lectures and Progress Reports will be published by AIP and distributed after the Conference. Contributed Papers will be refereed and the Scientific Committee will make the final selection for oral and poster presentation.

DEADLINE for receipt of Contributed papers is June 15, 2006.

Satellite Meeting

The SPIG programme will include a satellite meeting "Joint UniS-Vinča Workshop on Ion Beam Applications for Materials Modification and Analysis". This Workshop will start on 01 Sept 2006 in Kopaonik and continue on 02 Sept 2006 in the VINČA Institute, Belgrade. More details will be announced on the SPIG web site. The final electronic versions of the Invited Lectures and Progress Reports should be received before the end of the Conference.

Registration

Conference Fees Type	Before June 1, 2006	After June 1, 2006
Members of the EPS or affiliated societies	EUR 250	EUR 300
Non-members	EUR 300	EUR 350
Students	EUR 125	EUR 150
Accompanying persons	EUR 75	EUR 100

For registration and further information, please, visit the Conference Web page

<http://www.spig2006.phy.bg.ac.yu/>

The correspondence should be preferably done by e-mail: spig2006@phy.bg.ac.yu

Instructions for the Authors

Authors are expected to prepare their conference manuscripts in 6 x 9 inch format according to the AIP instructions provided. Instructions to authors as well as LaTeX style guides and MS word templates are available on line at the Conference Web page or alternatively on

[Http://proceedings.aip.org/proceedings/6x9.jsp](http://proceedings.aip.org/proceedings/6x9.jsp)

The manuscript size should not exceed 12/10 pages for General/Topical Invited Lectures, 8 pages for Progress Reports and 4 pages for Contributed Papers. Please send the LaTeX or MS Word version of your manuscript together with the PDF format version using the **Paper submission service** on the Conference Web page. The peer review of the submitted papers will be organized by the Scientific Committee.

Kopaonik - Accommodation

Apartments & Studios Konaci "Sunny Peaks"

The apartment complex is comprised of six interconnected buildings, built in a style resembling monasterial architecture and named after six medieval Serbian towns: Maglič, Ras, Zvečan, Koznik, Brvenik and Jelac. The complex has 405 apartments, each with a small kitchen (electric cooker, refrigerator and a mini oven), bathroom, telephone, a TV set with a choice of domestic or satellite channels. The ground floor is a covered circular promenade lined with shops, restaurants, cafes, bakeries, pastry shops and nightclubs. There is also a congress center and a multi purpose hall for all kinds of meetings, concerts, theater and film shows.

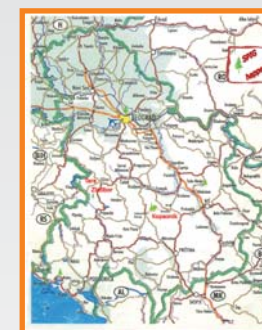


Hotel Grand

A modern and luxurious hotel with 173 rooms located in the heart of resort and within walking distance from the sport fields and lifts. As the basement of the hotel is in a green surrounding, guests can find the "Garden" restaurant, a very popular meeting place with a pizzeria, a pastry and a coffee shop, with indoor and outdoor services. The hotel has an indoor swimming pool with a terrace for the sun worshipers, a Jacuzzi, two saunas and an indoor multi-purpose sports with tennis courts, volleyball and basketball fields, as well as fitness and a body building room, table tennis and a squash hall. Next door to this center is a medical facility and massage.

Travel Information

Belgrade can be reached by air, road and railway from main European cities. The Organizers will arrange transfers from Belgrade to Kopaonik.



There are several options you can use for individual transportation from Belgrade to Kopaonik.

Option1: via Kruševac and Brzeće (270km)

Option2: via Kraljevo and Jošanička Banja (250km)

The public bus connections with Kopaonik are also available.

	Departures	Arrivals
Belgrade - Kopaonik	7:00h	12:15h
	12:00h	17:15h
Kopaonik - Belgrade	14:45h	20:00h
	16:00h	21:45h