PRELIMINARY LIST OF INVITED LECTURERS

1. Atomic Collision Processes

General Lectures

M.Charlton, Swansea University, UK Transport and Collision Phenomena Involving Antiparticles and Antihydrogen

D. Gerlich, Techische Universitat Chemnitz,Germany Experimental Studies on HnDm+ collision systems n+m≤5

M. Stockli, Oak Ridge National Lab, USA
Plasma-Wall Interactions in Cesiated H⁻ Ion Sources

Topical Lectures

J-M. Bizau, Université Paris-Sud, France Photoionization of Atomic and Molecurar Positively Charged Ions

R. Čurik, J. Heyrovský Institute of Physical Chemistry of the ASCR, v.v.i., Czech Republic

Vibrationally inelastic collisions of slow electrons with molecules

F.Penent, LCPMR, CNRS (UMR 7614) and Université Paris 06, France Single Photon Double K-shell ionization of Small Molecules

2. Particle and Laser Beam Interactions with Solids

General Lectures

D. Batani, CELIA, University of Bordeaux, France Preliminary results from recent experiments and future roadmap to Shock Ignition of Fusion Targets

U. Cvelbar, Jozef Stefan Institute, Slovenia The Origin of the Plasma Grown Nanostructures at the Solid-Solid Interface

J. Hermann, Université Aix-Marseille II, France Properties of plasmas produced by laser ablation with single and double pulses

Topical Lectures

T. Ikeda, Atomic Physics Laboratory, Japan Guiding of Slow Highly Charged Ions through Tapered glass caillaries

V. Milosavljević, University of Belgrade, Serbia Comprehensive Plasma Diagnostics for an ECR Etcher

Juana L. Gervasoni, Centro Atómico Bariloche, Argentina Title pending

3. Low Temperature Plasmas

General Lectures

A. Bogaerts, University of Antwerp, Belgium

Modeling of Plasma and Plasma-Surface Interactions for Environmental, Medical and Nano Applications

U. Ebert, Eindhoven University of Technologi, Netherlands Extremely far from Equilibrium: the Multiscale Dynamics of Streamers

M. Kushner, University of Michigen, USA

Model Based Design of Low Temperature Plasma Reaactors

J-M. Pouvesle, GREMI University of Orleans, France

Antitumoral effect of non thermal plasmas alone or in combination with chemotherapy

H. E. Wagner, Ernst-Moritz-Arndt-Universität Greifswald, Germany

The Complex Diagnostics of Barrier Discharges – an Experimental Challenge

Topical Lectures

J. A. Aparicio, Universidad de Valladolid, Spain

Experimental transition probability measurements in Pulsed lamps: Critical points

A. Bultel, Université de Rouen, France

Physico-Chemistry of Planetary Atmospheric Entry Plasmas

E. Kovačević, GREMI University of Orleans, France

Plasma based formation and activation of nanoparticles and nanocomposite materials

Đ. Spasojević, Faculty of Physics, Serbia

Cathode sheath and hydrogen Balmer lines modeling in a micro-hollow gas discharge

4. General Plasmas

General Lectures

V. M. Astashinski, National Academy of Sciences of Belarus, Republic of Belarus Ion-Drift Acceleration of Magnetized Plasma in Quasi-Stationary Plasma Accelerators

G. Ferland, University of Kentucky, USA

Plasma simulations of general interest in astrophysics

Hideo Nagatomo, Institute of Laser Engineering, Osaka University, Japan Integrated Simulations for Laser Fusion

Topical Lectures

L. Campbell, Flinders University, Australia

Electron Impact Excitation in Planetary and Cometary Atmospheres

N. B. Nassib, INSAT, University of Carthage, Tunisia

Ab Initio Determinations of Stark Broadening Parameters and Applications in Astrophysics

T. Popov, St. Kliment Ohridski University of Sofia, Bulgaria

Evaluation of Plasma Potential and Electron Energy Distribution Function by Langmuir Probes in Magnetized Plasma

J. Rosato, Aix Marseille University, France

Plasma Spectriscopy in the Conditions of the Iter Tokamak

T. Watanabe, National Institute for Fusion Science, Japan

Kinetic Transport Simulation Studies for Helical Plasma Confinement

Progress Reports

A. Antoniou, University of Athens, Greece

The Structure of Si IV Region in Be Stars; a Study of Si IV Spectral Lines in 68 Be Stars

N. Cvetanović, Faculty of Transport and Traffic Engineering, Serbia

Investigation of Energetic Hydrogen Atoms in Glow Discharges

M. Coreno, Elettra Sincrotrone Trieste and CNR, Italy

On the Work that we're Carrying out at Elettra on the Novel Ultrafast VUV sources CITIUS and FERMI FEL

S. M. D. Galijaš, Faculty of Physics, Serbia

Two-State Vector Model of the Nonresonant Population of the Rydberg States of Multiply Charged Ions Interacting with Solid Surfaces

N. Gavrilović-Bon, Astronomical Observatory Belgrade, Serbia

Stellar Population in the sample of Type 2 Active Galactic Nuclei

J. Kovačević, Astronomical Observatory Belgrade, Serbia

The properties of the emission lines and their correlations in the spectra of Active Galactic Nuclei

D. Kubala, University of Fribourg, Switzerland

Dissociative Electron Attachment to Small Model Molecules

S. Lazović, Institute of Physics, Serbia

Diagnostics and Biomedical Applications of Radiofrequency Plasma

M. Majkić, Faculty of Physics, Serbia

Intermediate Stages of the Neutralization of Multiply Charged Slow Ions Interacting with Solid Surfaces

A. Mihelič, Jožef Stefan Institute, Slovenia

Studies of Multiphoton Processes in Noble Gas Atoms

S. Petrović, Vinča Institute of Nuclear Sciences, Serbia

Composition and structure modification of a WTi/Si system by nanosecond and picosecond laser pulses

M. Radović, Vinča Institute of Nuclear Sciences, Serbia

Low Dimensional Ti-Oxide Based Structure: From SrTiO3 to TiO2

M. Ristić, Faculty of Physical Chemistry, Serbia

Differential Cross Sections at 0° and 180° for Electron Impact Excitation of H_2 and CO

N. Šišović, Faculty of Physics, Serbia

Spectroscopic study of hydrogen Balmer line shapes in a hollow cathode glow discharge in NH3, Ar/NH3, Ar/CH4 and Ar/C2H2 mixtures

N. Škoro, Institute of Physics, Serbia

Breakdown and discharge regimes in standard and micrometer size DC discharges

D. Tankosić, USRA/NASA – Marshal space Fight Center, USA

Laboratory Studies of Charging Properties of Dust Grains in Astrophysical/Planetary Environments

S. Tošić, Institute of Physics, Serbia

Measurements of Differential Cross Sections for Elastic Electron Scattering and Electronic Excitation of Metal atoms

G. Wachter, Vienna University of Technology, Austria

Electron emission from a metal nanotip by ultrashort laser pulses

M. Zlatar, Institute of Chemistry, Technology and Metallurgy, Serbia

Dissociative Electron Attachment Measurements and TDDFT Calculations of the Excitation Energies in Pt(PF₃)₄: Sinergy Between Experiment and Theory