

PROGRAM OF THE 2<sup>nd</sup> YUGOSLAV-BELARUSSIAN SYMPOSIUM  
ON PHYSICS AND DIAGNOSTICS OF LABORATORY AND  
ASTROPHYSICAL PLASMAS

SATURDAY (September, 5<sup>th</sup>)

9<sup>00</sup> - 9<sup>30</sup> OPENING CEREMONY

Chairman: M. S. Dimitrijević

9<sup>30</sup> G. S. Romanov: *Theoretical Investigations of High - Temperature Multi-charge Plasma.*

10<sup>00</sup> J. Purić, R. Atanasijević, M. Ćuk: *Plasma Focus Experiment in Yugoslavia.*

10<sup>30</sup> V. M. Astashynskii, L. Ya. Min'ko, M. Ćuk, M. M. Kuraica, J. Purić: *Compact Quasi-Stationary Plasma Accelerator as a Source of Plasma for Atomic Spectroscopy.*

10<sup>45</sup> V. D. Shimanovich, I. P. Smyaglikov, A. I. Zolotovskiy, S. M. Pankovets: *Optical and Spectroscopic Investigations of Arc Discharge at Fullerene Synthesis.*

11<sup>00</sup>-11<sup>30</sup> Coffee break

Chairman: V. I. Arkhipenko

11<sup>30</sup> A. A. Mihajlov: *Electric Characteristics of the Total Ionized Plasmas in Constant and Time-Variable External Fields.*

12<sup>00</sup> V. K. Goncharov, M. V. Puzyrev, A. F. Chernyavskii: *The Parameters and Phase Composition Control of Laser Erosion Jets with an Employment of Electric and Electromagnetic Fields.*

12<sup>30</sup> Z. Mijatović, D. Nikolić, S. Djurović, R. Kobilarov and N. Konjević: *Stark Broadening of Neutral Argon Lines in Plasmas.*

13<sup>00</sup>-15<sup>00</sup> Lunch break

Chairman: J. Purić

15<sup>00</sup> V. I. Arkhipenko, L. V. Simonchik, S. M. Zgirovskii: *The Effect of Cathode Temperature on the Electric Field Intensity Distribution in Cathode Fall Region of the Kiselevskii Plasma Source.*

15<sup>30</sup> L. Ć. Popović: *Spectral Line Investigation of Active Galactic Nuclei (AGNs) at Belgrade Astronomical Observatory.*

16<sup>00</sup> L. Ya. Min'ko, Yu. A. Chivel: *Surface Phenomena and Their Influence on Near-Surface Low-Threshold Plasma Formation Under the High-Energy Action on Solids.*

16<sup>15</sup>-16<sup>45</sup> Coffee break

Chairman: V. K. Goncharov

16<sup>45</sup> M. M. Škorić: *Self-organization Processes in Plasmas.*

17<sup>15</sup> L. Ya. Min'ko: *Radiative Plasmadynamics as a New Direction in Plasma Physics.*

17<sup>45</sup> M. M. Popović, D. Djordjević: *Usage of Spectroscopical Experiments for Determination of Other Plasma Parameters.*

18<sup>00</sup>-19<sup>00</sup> Poster section

20<sup>00</sup> CONFERENCE DINNER

SUNDAY (September, 6<sup>th</sup>)

Chairman: L. Ya. Min'ko

10<sup>00</sup> A. N. Chumakov, N. A. Bosak: *Multipulse Near-Surface Optical Discharge as an Effective Source of Erosive Plasma.*

10<sup>30</sup> E. Ershov-Pavlov, K. Stepanov, L. Stanchits, Yu. Stankevich: *Emission of an Atmospheric Pressure Arc in a Gas Flow.*

11<sup>00</sup> D. M. Šulić: *Characteristics of Guiding VLF Waves by Field-Aligned Irregularities in the Magnetosphere.*

11<sup>30</sup> N. V. Tarasenko: *Studies of Relaxation Processes in Laser-Produced Plasma.*

11<sup>45</sup> CLOSING OF THE CONFERENCE