

**PROGRAM COMMITTEE**  
**X INTERNATIONAL WORKSHOP**  
**"PLASMA ELECTRONICS AND NEW ACCELERATION METHODS"**  
**25 - 29 August, 2008, Kharkov, Ukraine**

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**BASIC DIRECTIONS AND TOPICS OF  
X INTERSTATE WORKSHOP  
"PLASMA ELECTRONICS AND NEW ACCELERATION METHODS"**

- I. Direction "HIGH-CURRENT RELATIVISTIC ELECTRONICS"
  - 1. Topic "Vircators"
  - 2. Topic "Free-Electron Lasers with plasma wigglers"
  - 3. Topic "Free-Electron Lasers"
  - 4. Topic "Super-radiation"
  - 5. Topic "Relativistic plasma UHF-electronics"
  - 6. Topic "Turbulence and anomalous resistance and plasma-erosion switching"
- II. Direction "NON-RELATIVISTIC ELECTRONICS"
  - 1. Topic "Galateis"
  - 2. Topic "Non-relativistic plasma UHF-electronics"
  - 3. Topic "Plasma-optics"
  - 4. Topic "Radiation acoustics and electronics"
  - 5. Topic "Implosion-magnetic generators"
- III. Direction "NEW METHODS OF CHARGED PARTICLE ACCELERATION"
  - 1. Topic "Wake-field acceleration by excited relativistic bunches"
  - 2. Topic "Wake-field acceleration by short laser pulse and acceleration in a vacuum"
  - 3. Topic "Numerical simulation of interaction of power electromagnetic pulses with plasmas"
- IV. Direction "INERTIAL CONFINEMENT FUSION"
  - 1. Topic "Liner inertial fusion"
  - 2. Topic "Ignition of fusion target by ultra-short and ultra-power laser pulses"
  - 3. Topic "Inertial confinement fusion on heavy-ion beams"
  - 4. Topic "Magnetized Target Fusion"
- V. Direction "COLLECTIVE PROCESSES IN SPACE PLASMAS"
- VI. Direction "PLASMA-BEAM DISCHARGE, GAS DISCHARGE AND PLASMACHEMISTRY"
  - 1. Topic "Implosive electron emission"
  - 2. Topic "Gas discharge at high pressure"
  - 3. Topic "Plasma-beam discharge and its applications"
  - 4. Topic "Gas discharge at low pressure"
  - 5. Topic "Laser and UHF-discharges"
  - 6. Topic "Helicon plasma sources"
  - 7. Topic "Numerical simulations of chemical kinetics in atomic and molecular gases"
  - 8. Topic "Streamers and spark discharge"
  - 9. Topic "Pulse gas discharge"
  - 10. Topic "Dusty plasmas"
- VII. Direction "NONLINEAR PROCESSES IN MEDIUM"
  - 1. Topic "Weak turbulence in waves and particles system. Collapse of Longmuir waves"
  - 2. Topic "Turbulence and vortex structures"
  - 3. Topic "Stochasticity"
  - 4. Topic "Stochasticity in dynamic systems"
  - 5. Topic "Stochastic resonance in Josephson system"
  - 6. Topic "Non-linear processes of wave interaction in plasmas"
  - 7. Topic "Non-linear processes of wave interaction in inhomogeneous plasmas"
  - 8. Topic "Quasi-linear theory with limited correlation time"
  - 9. Topic "Numerical experiment in non-linear plasmas"
  - 10. Topic "Sinergetics"
  - 11. Topic "Kinetic equations, their solutions and applications of these solutions"

VIII. Direction "APPLICATIONS AND TECHNOLOGY"

1. Topic "Radiation Electronics"
2. Topic "Aerodynamics of inhomogeneous gas flows"
3. Topic "Electron accelerators for transmutation of radioactive wastes"
4. Topic "Ion accelerators for transmutation of radionuclides"
5. Topic "Elaboration of the accelerators for radionuclide acceleration"

**ORGANIZING COMMITTEE**  
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Co-chairman  
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Associated chairman  
Associated chairman  
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