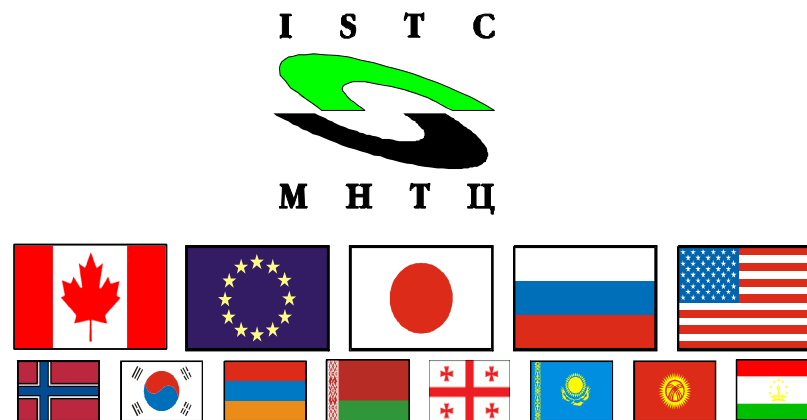




ISTC “Russian ELI/HiPER/PETAL WORKSHOP”

*Moscow, Russia,
Krasnoproletarskaya ul. 32-34
24-25 November, 2008*

MONDAY, November 24, 2008

8:30 – 9:00 Registration

Auditorium 211

9:00 – 9:30 Opening Session

9:00 – 9:15 Welcome address and role of ISTC

Mr. Adriaan van der Meer, Executive Director

9:15 – 9:30 Welcome from CEA

Dr. Daniel Malys, Charge de Mission Russie, CEA/DAM

9:30 – 13:00 Plenary session I: Status of High field science with lasers

Chairs: Prof. Mike Dunne and Prof. Vladimir Tikhonchuk

9:30 – 10:00 Extreme Light Physics

Prof. Gerard Mourou, ELI Coordinator

10:00 – 10:20 Extreme Power Photonics: New Phenomena

Prof. Nikolay Narozhny, MEPHI

10:20 – 10:40 Prospect of Relativistic Laser Plasmas for Studying Fundamental Processes

and Relativistic Astrophysics

Prof. Sergey Bulanov, APRC Japan AEA

10:40 – 11:00 Heading toward reliable laser-based sources of monoenergetic particles. Path to cooperation

Prof. Valery Bychenkov, Lebedev Institute RAS

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Moscow, Krasnoproletarskaya ul. 32-34

MONDAY, November 24, 2008

Auditorium 211

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|----------------------|---|
| 11:20 – 11:40 | Strongly coupled plasma in laboratory and space
Prof. Vladimir Fortov, Joint Institute for High Temperatures RAS |
| 11:40 – 12:00 | Hybrid OPCPA-CPA Prototype for ELI
Prof. Efim Khazanov, Institute of Applied Physics RAS |
| 12:00 – 12:20 | Novel Fiber-Optic Components for Ultrafast High-Power Photonics
Prof. Alexey Zheltikov, Moscow State University |
| 12:20 – 12:40 | The Aspects on high contrast irradiation of targets at RFNC-VNIITF
laser
facility "Sokol-P"
Prof. Eugeny Avrorin, Alexander Andriyash, A.F.Ivanov, Eugeny
Loboda, Vladimir Lykov, Anatoly Potapov, RFNC-VNIITF |
| 12:40 – 13:00 | Laser Technologies, Experiments and Diagnostics
Prof. Ivan Sherbakov, Prokhorov General Physics Institute RAS |
| 13:00 – 14:30 | Lunch |

ISTC “Russian ELI/HiPER/PETAL WORKSHOP” AGENDA

Moscow, Krasnoproletarskaya ul. 32-34

MONDAY, November 24, 2008

Auditorium 211

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| 14:30 – 18:00 | <u>Plenary session II</u>: Possible official frames for future EU-Russian cooperation
Chairs: Prof. Christine Labaune and Prof. V. Bychenkov |
| 14:30 – 14:50 | RFBR View and Proposals for a Future Technical Cooperation
Prof. Alexey Zheltikov, Russian Foundation for Basic Research |
| 14:50 – 15:20 | ELI-Scientific and Organizational Structure
Prof. Georg Korn, Max- Planck-Institute of Quantum Optics |
| 15:20 – 15:40 | Status and perspectives of collaboration of CNRS with Russian research community in advanced laser technology/research
Prof. Vladimir. Mayer, CNRS Directeur de recherché Responsable |
| 15:40 – 16:00 | Collaboration projects under the French-Russian interacademical agreements and the European Seventh Framework Program
Prof. Vladimir Tikhonchuk, CELIA, University; Bordeaux 1 |
| 16:00 – 16:30 | Coffee break |
| 16:30 – 18:00 | Possible official frames for future EU-Russian cooperation.
Discussion of a roadmap for agreement on a future cooperation
<i>All Participants</i>
Moderators: Prof. G. Mourou, Prof. M. Dunne, Prof. T. Kuehl, Prof. A. Zheltikov, Prof. W. Gudowski |

ISTC “Russian ELI/HiPER/PETAL WORKSHOP” AGENDA

Moscow, Krasnoproletarskaya ul. 32-34

TUESDAY, November 25, 2008

8:30 – 9:00	Registration	<u>Auditorium 211</u>
9:00 – 11:10	<u>Plenary session III: Inertial fusion energy</u> Chairs: Prof. G. Schurtz and Prof. T. Kuehl	
9:00 – 9:30	HiPER - the European Path to Laser Fusion Prof. Mike Dunne, Science & Technology Facilities Council, UK	
9:30 – 10:00	PETAL Prof. Christine Labaune, CNRS-Institut Lasers et Plasmas, France	
10:00 – 10:30	Laser Mega Joule Project Prof. Jacques Ebrardt, CEA Centre DAM, Arpajon, France	
10:30 – 10:50	Laser target technology at the Lebedev Physics Institute - Participation in EU projects Dr. Natalia Borisenko, Prof. Elena Koresheva, Lebedev Institute RAS	
10:50 – 11:10	Large aperture elements from KDP and DKDP crystals for high power femtosecond laser's systems Prof. Alexey Babin, Institute of Applied Physics RAS	
11:10 – 11:30	Coffee break	

ISTC “Russian ELI/HiPER/PETAL WORKSHOP” AGENDA

Moscow, Krasnoproletarskaya ul. 32-34

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| 11:30 – 13:00 | <u>Plenary session IV</u>: Laser-plasma interactions and fast ignition
Chairs: Prof. G. Mourou and Prof. N. Narozhny |
| 11:30 – 11:50 | Photo-chemically driven active media for ultra high intensity femtosecond system: towards Exawatt powers
Dr. Leonid Mikheev, Lebedev Institute RAS |
| 11:50 – 12:10 | Bright sources of radiation and high-energy electrons using short intense laser pulses. Joint strategy for EU projects
Prof. Nikolai Andreev, Prof. Mikhail Agranat, Joint Institute for High Temperatures RAS |
| 12:10 – 12:30 | Generation of super strong light fields by advanced laser optics and their applications
A.A.Andreev¹, A.V.Charukchev², A.A.Mak¹, N.N.Rosanol¹, Yu.M.Stolyarov¹, V.E.Yashin¹, 1. RIC "Vavilov State Optical Institute", St. Petersburg, Russia, 2. NIIKI OEP, Sosnovy Bor Leningrad region, Russia |
| 12:30 – 12:45 | The development of ICF-target design for spark ignition and fast ignition approaches. LPI activity and international collaboration
Prof. Sergey Gus'kov, Lebedev Institute RAS |
| 12:45 – 13:00 | Optical, X-ray, and corpuscular diagnostics
Prof. Andrei Shikanov and Alexander Rupasov, Lebedev Institute RAS |
| 13:00 – 14:30 | Lunch |

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TUESDAY, November 25, 2008

Auditorium 211

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| 14:30 – 16:00 | <u>Plenary session V: Matter under extreme conditions</u>
Chairs: Prof. N. Andreev and Prof. S. Bulanov |
| 14:30 – 14:50 | High Power Laser Facilities RFNC-VNIEF
Prof. Sergey Garanin, Prof. Gennady Kochemasov, RFNC-VNIIEF |
| 14:50 – 15:10 | Target design for IFE and the shock ignition
Prof. Guy Schurtz, CELIA, University; Bordeaux 1 |
| 15:10 – 15:30 | PHELIX-laser at GSI Darmstadt: Status and Research Program
Prof. Thomas Kuehl, PHELIX, GSI -Helmholtzzentrum fuer
Schwerionenforschung GmbH |
| 15:30 – 15:45 | Experimental and theoretical study of high-energy-density states in
matter
induced by intense laser beams. Ongoing and near future cooperation
Prof. Igor Lomonosov, Institute of Problems of Chemical Physics
RAS |
| 15:45 – 16:00 | Wide-range equations of state and phase transitions of substances at
high
energy densities
Prof. Konstantin Khishchenko, Joint Institute for High Temperatures
RAS |
| 16:00 – 16:30 | Coffee break |

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TUESDAY, November 25, 2008

Auditorium 211

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| 16:30 – 17:30 | <u>Final discussion of a roadmap for agreement on Russian-EU cooperation</u>
Moderators: Prof. G. Mourou, Prof. M. Dunne, Prof. T. Kuehl, Prof. A. Zheltikov, Prof. W. Gudowski |
| 17:30 – 18:00 | Summary Documents
Chairs: Prof. V. Tikhonchuk, Prof. V. Mayer, Prof. W. Gudowski, Dr. D. Malys, Prof. A. Zheltikov |
| 18:00 – 21:00 | Banquet
Hosted by ISTC in the ISTC Cafeteria |