

**The 2nd International School for young scientists
“Physics, Engineering and Technologies for Biomedicine”.**

October 8, Sunday

Hotel Intourist Kolomenskoe

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| 09.00 - 09.30 | Registration, Coffee | |
| 09.30 - 10.00 | Opening ceremony | |
| | Session I | <i>Chair Prof. V. Timoshenko</i> |
| 10.00 - 10.40 | Anton Fojtik , Czech Technical University in Prague, Czech Republic; MEPhI, Russia <i>NANO – Smart nanostructures and clever nanotechnology. Applications and possibilities</i> | |
| 10.40 - 11.20 | Valentin Nikitaev , MEPhI, Russia <i>Intelligent technologies of cancer morphology: a multidisciplinary analysis</i> | |
| 11.20 - 12.00 | Yuriy Pirogov , MSU, MEPhI, Russia <i>Magnetic Resonance Imaging in Biomedicine. Modern Problems and Methods</i> | |
| 12.00 - 13.00 | Coffee-break | |
| | Session II | <i>Chair Prof. V. Nikitaev</i> |
| 13.00 - 13.40 | Victor Timoshenko , MSU; MEPhI, Russia <i>Formation, properties and biomedical applications of silicon nanocrystals</i> | |
| 13.40 - 14.20 | Yuri Anokhin , MEPhI, Russia <i>Methodological approaches to immunotherapy of cancer using cultured natural killers (NK cells)</i> | |
| 14.20 - 15.00 | Vasili Petriev , National Medical Research Center of Radiology; MEPhI, Russia <i>Pharmacokinetic and dosimetric characteristics of radiopharmaceuticals based on human serum albumin</i> | |
| 15.00 - 15.30 | Coffee-break | |
| 15.30 - 18.00 | Excursions in Moscow | |

**The 2nd International School for young scientists
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October 9, Monday

MEPhI, Conf. Hall 3rd floor

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| 09.30 - 10.00 | Registration, Coffee | |
| | Session III | <i>Chair Prof. A. Fojtik</i> |
| 10.00 - 10.40 | Walter Blondel , CNRS CRAN/ENSEM, France <i>Overview on inverse problem solving techniques to estimate optical properties from fibered spectroscopic devices</i> | |
| 10.40 - 11.20 | Marine Amouroux , CNRS CRAN/ENSEM, France <i>Definition of image quality criteria for telemedicine-based consultations</i> | |
| 11.20 - 12.00 | Anabela Da Silva , CNRS/Institut Fresnel, France <i>Quantitative PhotoAcoustic Tomography</i> | |
| 12.00 - 12.40 | Kirill Kopeikin , S-P Univ., MEPhI, Russia <i>What do you need to answer the questions: What is consciousness? What is the place of man in the universe? Are we alone in the universe?</i> | |
| 12.40 - 14.00 | Lunch | |
| | Session IV | <i>Chair N. Karpov</i> |
| 14.00 - 14.40 | Andrei Zvyagin , Macquarie University (MQ), Australia, MEPhI, Russia <i>Biofunctional photoluminescent nanocomplexes for visualisation of molecular trafficking, diagnostics and therapy</i> | |
| 14.40 - 15.20 | Igor Meglinski , University of Oulu, Finland, MEPhI, Russia <i>Optical Coherence Tomography in Biomedical Applications</i> | |
| 15.20 - 16.00 | Yurii Kulchin , IACP, Far-East Branch of RAS, MEPhI, Russia <i>Agrobiophotonics</i> | |
| 16.00 - 18.00 | Excursions to the laboratories in MEPhI | |