




## Conference Program, March 4, 2014

### Oral Session 16:00


Chairman

Dr. V.A.Petukhov

- 16:00 Ya. B. Zeldovich—father of pulse detonation engine research  
*Golub Victor Vladimirovich (JIHT RAS, Moscow, Russia)*
- 16:15 Zeldovich concepts for transient combustion and flammability limits determination  
*Kiverin A. D., Ivanov M. F., Smygalina Anna Evgenievna (JIHT RAS, Moscow, Russia)*
- 16:30 Three-dimensional flow structures induced by the accelerating flames in channels  
*Yakovenko Ivan Sergeevich (JIHT RAS, Moscow, Russia), Ivanov M. F., Kiverin A. D.*
- 16:45 The role of chemically neutral micro particles in the processes of aerosol combustion: from the detonation suppression to the particles implanting into the substrate  
*Ivanov Mikhail Fedorovich (JIHT RAS, Moscow, Russia), Kiverin A. D., Yakovenko I. S.*
- 17:00 Combustion rate of dense gases  
*Assovskiy Igor Georgeevich (ICP RAS, Moscow, Russia)*
- 17:15 Investigation of the properties of carbon nanoparticles by pulse laser heating  
*Eremín A. V., Gurentsov E. V., Mikheyeva Ekaterina (JIHT RAS, Moscow, Russia)*
- 17:30  **COFFEE-BREAK**

Chairman

Prof. G.I.Kanel

- 17:45 Condensed carbon phase transitions on the liquid carbon–diamond contact border  
*Basharin Andrey Yurievich (JIHT RAS, Moscow, Russia), Lysenko I. Yu, Dozdikov V. S.*
- 18:00 Continual-atomistic modelling of femtosecond laser ablation of metals  
*Fokin Vladimir Borisovich (JIHT RAS, Moscow, Russia), Levashov P. R., Povarnitsyn M. E., Khishchenko K. V.*
- 18:15 Frozen nanostructures produced by ultrashort laser pulse  
*Khokhlov Victor Alexandrovich (ITP RAS, Chernogolovka, Russia), Inogamov N. A., Anisimov S. I., Zhakhovsky V. V., Emirov Yu. N., Ashitkov S. I., Komarov P. S., Agranat M. B.*
- 18:30 Two-temperature equations of state for d-band metals irradiated by femtosecond laser pulses  
*Inogamov N. A., Petrov Yu. V., Zhakhovsky V. V., Migdal Kirill Petrovich (VNIIA, Moscow, Russia)*
- 18:45 Atomistic simulation of laser pulse nanostructuring of metals: study of surface modification profile  
*Starikov Sergey (JIHT RAS, Moscow, Russia)*
- 19:00–19:15 Phase-matched coherent radiation in two-stage transient-collisional excitation plasma-media x-ray laser  
*Nagorskiy Nikolay Mikhailovich (JIHT RAS, Moscow, Russia), Magnitskiy S. A., Faenov A. Y., Pikuz T. A.*
- 20:00–23:00  **BANQUET**