

Conference Program, March 2, 2016

Oral Session 16:00

Chairman

Prof. A. V. Eremin

- 16:00 Dynamics of shock and shockless compression waves in solids
Kanel Gennady Isaakovich (JIHT RAS, Moscow, Russia)
- 16:15 One- and two-stage cumulative Mach-type shock wave generators
Nikolaev Dmitry Nikolaevich (IPCP RAS, Chernogolovka, Russia), Kvitov S. V., Shutov A. V., Ternovoi V. Ya.
- 16:30 Energy dissipation rate in copper subjected to the high pressure loading
Borodin Elijah Nikolaevich (IPME RAS, Saint Petersburg, Russia), Mayer A. E., Podurets A. M., Beluhina P. S., Grebennikova S. E., Tkachenko M. I., Balandina A. N.
- 16:45 The role of decompression and micro-jetting in shock wave synthesis experiments
Schlothauer Thomas (TUBAF, IIC, Freiberg, Germany), Schimpf C., Kroke E., Heide G., Schwarz M. R.

17:00  **CONFERENCE PHOTO (OUTSIDE)**



COFFEE-BREAK

Chairman

Prof. V. V. Golub

- 17:30 Activities on proton radiography at the Institute for Theoretical and Experimental Physics
Golubev Alexander Alexandrovich (SSC RF ITEP, Moscow, Russia), Kantsyrev A. V.
- 17:45 Morphological turning, electroconductivity and structural phase transitions of shocked titanium
Golyshev Andrey Anatolievich (IPCP RAS, Chernogolovka, Russia), Kolobova A. Yu., Kudymova Yu. E., Molodets A. M.
- 18:00 Continuum model of tensile fracture of metals and its application to the shock wave problems
Mayer Alexander Evgenievich (CSU, Chelyabinsk, Russia)
- 18:15 Research of fracture of materials and designs at shock-wave loadings by means of the program complex EFES
Radchenko Pavel Andreevich (TSUAB, Tomsk, Russia), Radchenko A. V., Batuev S. P., Tukaev A. M.
- 18:30 Detonability of mechanoactivated ammonium-perchlorate-based mixtures with nano-Al
Shevchenko Arseny (NRNU MEPhI, Moscow, Russia), Dolgoborodov A. Yu., Brazhikov M. A., Kirilenko V. G.
- 18:45 Theory and experiments of premixed turbulent combustion
Krikunova Anastasia Igorevna (JIHT RAS, Moscow, Russia), Son E. E.

19:00  **SUPPER**

Chairman

Dr. K. V. Khishchenko

- 20:00 The behavior of boron carbide under non-hydrostatic stress
Korotaev Pavel Yurievich (VNIIA(S), Moscow, Russia), Pokatashkin P. A., Yanilkin A. V.
- 20:15 The viscosity and surface tension of nuclear matter and quark-gluon plasma
Khokonov Azamat Khazret-Alievich (KBSU, Nalchik, Russia)
- 20:30 Synthesis and thermal properties of pristine and hydrogenated carbon graphene-like materials
Tarala V. A., Akhmatov Zeitun Anuarovich (KBSU, Nalchik, Russia), Khokonov A. Kh.
- 20:45 Equation of state of fluid monolayer absorbed on a stochastic surface
Khlyupin Aleksey Nikolaevich (MIPT, Dolgoprudny, Russia), Dinariev O. Y.

- 21:00 Detection of micro- and nanoparticles in dynamic processes
Ten Konstantin Alekseevich (LIH SB RAS, Novosibirsk, Russia), Prueel E. R., Kashkarov A. O., Rubtsov I. A., Shechtman L. I., Zhulanov V. V., Tolochko B. P., Rykovanov G. N., Muzyrya A. K., Smirnov E. B., Stolbikov V. Yu., Prosvirnin K. M.
- 21:15 Dynamics of sizes of nanoparticles at trinitrotoluene detonation on the VEPP-4M synchrotron radiation
Rubtsov Ivan Andreevich (LIH SB RAS, Novosibirsk, Russia), Ten K. A., Prueel E. R., Kashkarov A. O.
- 21:30 Detonation initiation in AB model of explosive: Comparative atomistic and hydrodynamics simulations
Murzov Semen Alexandrovich (MIPT, Dolgoprudny, Russia), Sergeev O. V., Dyachkov S. A., Egorova M. S., Parshikov A. N., Zhakhovsky V. V.
- 21:45 The method of calculating the thermodynamic properties and the composition of the explosion products if there is no full chemical equilibrium
Shargatov Vladimir Anatolievich (NRNU MEPhI, Moscow, Russia), Gubin S. A.
- 22:00 A theory of pulsating and cellular detonations
Kasimov Aslan (KAUST, Thuwal, Saudi Arabia), Faria L. M., Rosales R. R.
- 22:15 Two-stage light-gas magnetoplasma accelerator for hypervelocity impact simulation
Khramtsov P. P., Vasetskij V. A., Makhnach Anastasiya (HMTI NASB, Minsk, Belarus), Hryshchanka U. M., Chernik M. Yu., Shikh I. A., Doroshko M. V.
- 22:30–
22:45 The influence of coal particles on self-ignition of methane–air mixture at the temperature 950–1200 K
Leschevich V. V., Penyazkov O. G., Shimchenko Sergey Yur'evich (HMTI NASB, Minsk, Belarus), Yaumenchykau M. L.

21:00–
22:00



COFFEE-CONTINUUM