

MONDAY, OCTOBER 1, 2007

08:30-09:15

REGISTRATION

09:15-09:30

WELCOME ADDRESS

H. GRAINDORGE, *SNPE Matériaux Energétiques*

SESSION 1

Disposal and Reuse of Valuable Explosive

09:30-10:00

TNT-Based Condensation Monomers and Polymers

A.L. RUSANOV, *A. N. Nesmeyanov Inst. of Organoelement Compounds, RU*

10:00-10:30

Utilization of Large-sized Solid Rocket Motors at the Test Bench of FSUE Federal Research and Production Center ALTAI

A. VOROZHTSOV, *Federal Research & Production Center ALTAI, RU*

10:30-11:00

Synthesis of Monomers for Polymer Proton-exchanging Materials Based on Demilitarized TNT. Replacement of the Aromatic Nitro Group with Sulfo Group

A.L. RUSANOV, *A. N. Nesmeyanov Inst. of Organoelement Compounds, RU*

11:00-11:30

COFFEE BREAK

SESSION 2

Gas Generators

11:30-12:00

Metal Aluminium as the High-Performance Energy Accumulator for Alternative Power Engineering

M. LARICHEV, *Institute for Energy Problems of Chemical Physics, RU*

12:00-12:30

Physical and Chemical Characterisation of Reactive Compositions for Hydrogen Generation

N. SALANDRE, *CEA, FR*

12:30-13:00

Solid Propellant Gas Generating Devices - The Base of High Performance Automatic Systems of Fire Extinguishing

A.G. GRUZDEV, *Federal Research & Production Center ALTAI, RU*

13:00-14:30

LUNCH

SESSION 3

Combustion of Energetic Materials I

14:30-15:00

Combustion Study of Ammonium Nitrate-Based Propellants with Ecologically Friendly Combustion Catalysts

L. DELUCA, *SPLab, IT*

15:00-15:30

Steady and Transient Burning of Microaluminized Solid Rocket Propellants

A. BANDERA, *SPLab, IT*

15:30-16:00

Contribution of Organic Fuel in the Composition of Energy Condensed Systems to the Process of their Combustion

A. VOROZHTSOV, *Federal Research & Production Center ALTAI, RU*

16:00-16:30

Laser Ignition Studies of Composite Solid Rocket Propellants

L. DELUCA, *SPLab, IT*

16:30-17:00

Ignition and Combustion of HEM Based on Nonchloric Oxidizers

A. VOROZHTSOV, *Federal Research & Production Center ALTAI, RU*

17:00-17:30

COFFEE BREAK

TUESDAY, OCTOBER 2, 2007

SESSION 4

Energetic Nanomaterials 2

- 09:30-10:00 Explosive Formulation on the Base of Mechanoactivated Metal-Teflon Mixtures
A. DOLGOBORODOV, *Semenov Institute of Chemical Physics, RU*
- 10:00-10:30 Characterization and Effect of Aluminum Nanoparticules Used in Explosive Compositions
C. COLLET, *SNPE Matériaux Energétiques, FR*

10:30-11:00 **COFFEE BREAK**

SESSION 5

Energetic Nanomaterials 3

- 11:00-11:30 Synthesis of Al/CuO Nano Energetic Material on Silicon Substrate
C. ROSSI, *LAAS-CNRS, FR*
- 11:30-12:00 Study of HMX, AP and AN Decomposition in Presence of Metal Nanopowders
A.A. GROMOV, *Tomsk Polytechnic University, RU*
- 12:00-12:30 High Energy Nanocomposites
G. SAKOVICH, *Inst. for Problems of Chemical & Energetic Technologies, RU*

12:30-14:00 **LUNCH**

14:00-14:45 **INVITED LECTURE**

- Research and Production Complex of Biysk City –
Naukograd of the Russian Federation
A. ZHARKOV, *Federal Research & Production Center ALTAI, RU*

SESSION 6

New Molecules, Synthesis and Properties

- 14:45-15:15 Electrostatic Charges Simulation on a Crystal Part: Relation with Initiation of Energetic Material
S. BENAZET, *SNPE Matériaux Energétiques, FR*
- 15:15-15:45 Methods of Synthesis of Polycyclic Nitramines
S.V. SYSOLYATIN, *Inst. for Problems of Chemical & Energetic Technologies, RU*

15:45-16:15 **COFFEE BREAK**

19:00 **SYMPOSIUM DINNER**, departure from conference location

WEDNESDAY, OCTOBER 3, 2007

SESSION 7

Solid and Liquid Propellants

10:00-10:30

COFFEE

10:30-11:00

Combustion Theory and Modern High Temperature Technology Processes
A.G. KNYAZEVA, *Inst. of strength physics and materials science, RU*

11:00-11:30

Propellant Combustion Influence on Shell
I.G. ASSOVSKIY, *Semenov Institute of Chemical Physics, RU*

11:30-12:00

Advanced Research on the Elaboration of Monochloramine as a
Reaction Intermediate: Applications in the Synthesis of the Hydrazine
and Monomethylhydrazine
A.-J. BOUGRINE, *Laboratoire Hydrazines et Procédés, FR*

12:00-12:30

High purity hydrazine for spaces uses : An original process involving
zero carbon, zero solvent and zero vapour
C. GOUTAUDIER, *Laboratoire Hydrazines et Procédés, FR*

12:30-14:00

LUNCH