

June 6, 2011

Sandia National Laboratories

Russian Federation Labs Science and Technology Program Overview

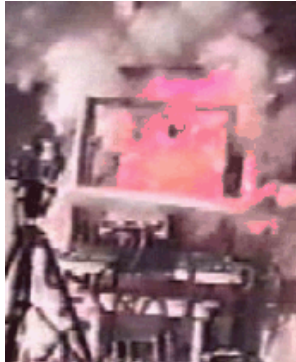
Jill Hruby

Vice President,
International, Homeland, and Nuclear Security

Ongoing and Planned Joint Activities

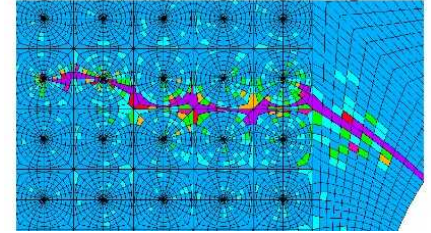
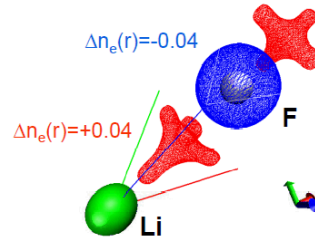
- PI-to-PI research projects form the backbone of the activity
 - 11 joint projects in FY11-12 with overall budget ~ \$US 725k
 - Current work is directed at materials science, computational science, and pulsed power among 5 Sandia and 7 Russian Federation PIs
 - Additional focus areas may be identified from Lab Director discussions
- Co-participation in Conferences and extended site visits has been important to the success of the research projects.
- Open communication and exchange with NNSA and our counterparts at LANL and LLNL has also been an important characteristic of the projects.

Representative Joint SNL – Russian Federation Institute Projects



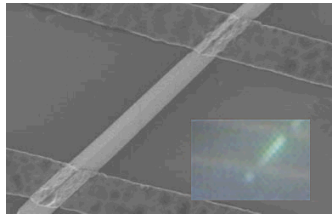
Thermally-driven Foam Decomposition and Container Pressurization, **VNIAA**

Extending Non-Equilibrium MD Simulation to Model Extreme States of Matter, **RAS/JIHT**



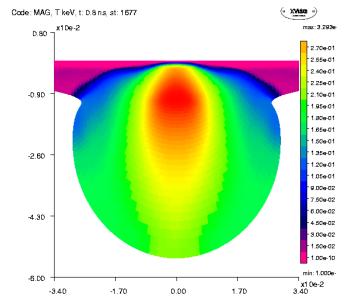
Application of Models for Chemical Material Damage, **RAS/IPME**

Joint Projects Span Six Russian Federation Institutes



Vacancy Migration in Semi-conductors, **VNIEF**

Hybrid Magnetic Implosion Modeling, **VNIITF**



Molecular Dynamics Estimates of Thermal Conductivity of Semiconductors, **Sarov**

