

MMSNF-2003

First Call

Materials Modeling and Simulations for Nuclear Fuels

June 9-10, 2003

Santa Fe, New Mexico, U. S. A.

Organized by Los Alamos National Laboratory
Los Alamos, NM 87545, U. S. A.



ORGANIZING COMMITTEE: K. Chidester (LANL, Chair), M. Stan (LANL), R. Grimes (Imperial College, London, UK), M. Baskes (LANL), and K. McClellan (LANL).

SCOPE: The Workshop aims at stimulating research and discussions on modeling properties of ceramic and metallic fuels and related materials of interest for the Nuclear Fuels applications. Multi-scale models and simulations, involving various methods, such as CALPHAD, SOLGASMIX, Finite Element Method, Molecular Dynamics, Monte Carlo and First Principles calculations are welcomed. Presentation of experimental results in support of modeling and simulation is encouraged. The talks and discussions will be grouped by the following subjects:

- Thermo-mechanical properties and stability of phases.
- Effects of irradiation on materials properties.
- Transport phenomena in materials.

FORMAT: The workshop follows the American Nuclear Society Annual Meeting, June 1-5, 2003, San Diego, CA. Participants are invited to visit during the weekend of June 7-8 the city of Santa Fe, New Mexico, one of the main tourist attractions in United States.

The first day of the workshop will be dedicated to thermo-mechanical properties and irradiation effects. The second day will start with transport phenomena. A panel discussion on the implications of the modeling and simulations of materials for nuclear fuels and the impact on the fuel performance codes will conclude the workshop. All the presentations will be loaded on a CD and distributed to participants.

There will be a 100 USD registration fee. Lunch and refreshments will be provided each day and there will be a sponsored banquet on the evening of the first day, June 9, 2003.

For additional information please visit the workshop web page at:

<http://www.lanl.gov/mst/nuclearfuels/>

ABSTRACT SUBMISSION: Please send your abstracts via e-mail by **March 31, 2003** to:

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