

Workshop on

NUCLEAR PHYSICS AND RELATED COMPUTATIONAL SCIENCE R&D FOR ADVANCED FUEL CYCLES (AFC)

Bethesda, MD, 10-11 August 2006

Second of three workshops hosted by US DOE Offices of Science and/or Nuclear Energy (NE) in response to announcement of Advanced Energy Initiative in the Jan. 2006 State of the Union address and financial support in the President's FY2007 budget request for:

Advanced Fuel Cycle Research in Support of the Global Nuclear Energy Partnership (GNEP)

- Basic Energy Sciences (BES): \$12.4 M
- Nuclear Physics (NP): \$2.43 M
(Low Energy: \$1.4 M
Nuclear Data: \$1.0 M)
- Advanced Scientific Computing Research (ASCR): \$25 M

Informational summary prepared by C. Baglin for USNDP Meeting, 7-9 November 2006

NUCLEAR PHYSICS AND RELATED COMPUTATIONAL SCIENCE R&D FOR ADVANCED FUEL CYCLES WORKSHOP

Focus: exploration of areas of fundamental nuclear physics R&D and computational research to support critical new nuclear energy initiative

Organizers: Lee Schroeder and Ewing Lusk

Hosts: DOE / NP, ASCR, NE.

Working Groups (4 parallel sessions):

- Nuclear data needs in support of R&D for the AFC (M. Cappiello, T. Downer, W. Martin, M. Salvatores)
- Nuclear measurements (C. Beausang, M. Dunn, R. Haight)
- Nuclear data (M. Chadwick, P. Oblozinsky)
- Nuclear theory and computation (D. Dean, A. Siegel)

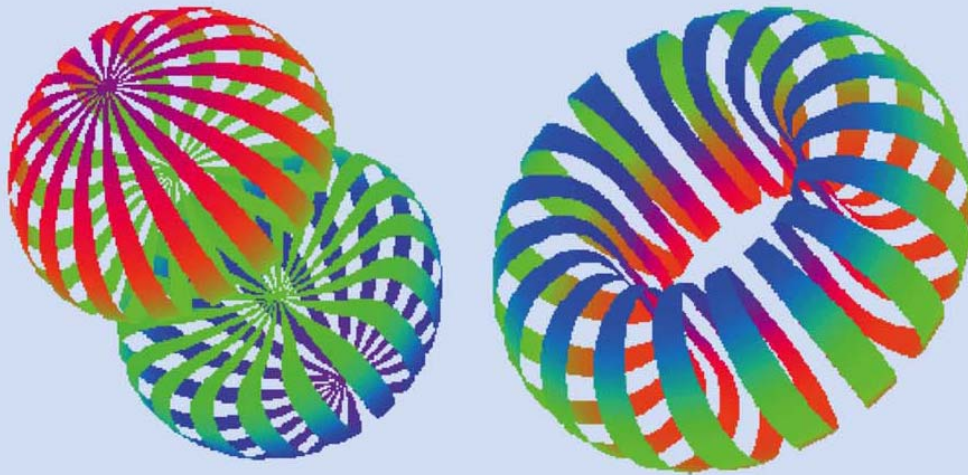
Attendees: ~135 scientists from applied and basic research communities (national labs, universities, DOE, private industry, etc.)

Presentations and supplemental information:

available from: <http://www-fp.mcs.anl.gov/nprcsafc/>

**Report of the
Nuclear Physics and Related Computational Science R&D
for Advanced Fuel Cycles Workshop**

Bethesda, Maryland



Co-sponsored by

Office of Nuclear Physics
Office of Advanced Scientific Computing Research
U.S. Department of Energy Office of Science

Co-chairs

Lee Schroeder
Ewing Lusk

August 10-12, 2006

**Final Report now
available:**

resource document for
use by the research
community and the
DOE to map out basic
and applied R&D
efforts relevant to
advanced fuel cycles

http://www.sc.doe.gov/np/program/docs/AFC_Workshop_Report_FINAL.pdf

The Next Steps ...

- **Submit final report on Workshop to DOE**

report posted on workshop and DOE web sites last week

- **DOE/SC/NP solicitation of proposals** (Low Energy and Theory): notice DE-PS02-07ER07-05, posted Monday 6 November '06 at

<http://www.sc.doe.gov/grants/>

(document: www.sc.doe.gov/grants/FAPN07-05.html)

- **Proposals (to Gene Henry):** 10 January '07 deadline
- **Peer review**
- **Initial decisions**
- **Release of funding:** Spring '07 ?