

PSACI UPDATE: (January 8, 2005)

The three top-rated peer-reviewed proposals are now fully funded and comprise the new portfolio of FES SciDAC Projects for the next three years. These are:

* Center for Gyrokinetic Particle Simulation of Turbulent Transport in Burning Plasmas (W. Lee, PI)

* Center for Extended Magnetohydrodynamic Modeling (S. Jardin, PI)

* Center for Simulation of Wave-Plasma Interactions (D. Batchelor, PI).

In addition, the SciDAC Fusion Collaboratory (D. Schissel, PI), which is supported by the Office of Advanced Scientific Computing Research (OASCR) has also been endorsed for continuation. The strong advocacy of the PSACI that the full FES SciDAC portfolio be funded is appreciated.

With regard to the proposed SciDAC Fusion Simulation Project (FSP) The Call for Proposals for the SciDAC FSP Proto-type Centers has now been officially posted at the web-site: <http://www.sc.doe.gov/grants/FAPN05-11.html>

The two areas of interest specified in this announcement are: (1) Integrated Simulation of Edge/Boundary Region (with specific mention of ELMs); and (2) Integrated Understanding of How Electromagnetic Waves Affect Plasma Profiles & Stability.

Recall in particular that the PSACI PAC has continuously advocated for SciDAC research in the edge plasma region. The announcement indicates that "one or two awards may be made" and that "it is anticipated that total project awards may range from \$1.5M to \$2M per year." It is also noted that "awards are expected to be made for a period of 5 years with out-year support contingent on availability of funds and satisfactory progress." Letters of intent to submit applications are due by February 23, 2005, and the final proposals are due by March 23, 2005. It is anticipated that the winning proposal/proposals will be announced at our annual PSACI PAC Meeting on June 2-3, 2005.

Activities, at the last PSACI Meeting in June '04, D. Post, chairman of the FSP Planning Committee, presented a briefing to the PAC about his group's technical assessment of and recommendations for what is needed for integrated modeling, including new 2-D and 3-D physics features, new mathematical framework capable of spanning all relevant physics, and a project-like management plan. OFES and OASCR have now agreed to launch one or at most two multi-institutional FSP Pilot Projects in FY'05 with the fraction of funding at any single institution limited. The Call for Proposals will be issued during January '05.

The next annual meeting of the Plasma Science Advanced Computing Program Advisory Committee (PSACI PAC) will be held at the Princeton Plasma Physics Laboratory on Thursday, Friday, June 2-3, 2005. An associated charge and agenda will be sent to the PAC well in advance of these dates. In addition to reviewing the progress report from the FES SciDAC Projects and OASCR Fusion Collaboratory, it is expected that the winning SciDAC FSP Pilot Proposal/Proposals will be announced at this next PAC Meeting.

