

Abstract Submitted
for the DPP06 Meeting of
The American Physical Society

The Plasma Science and Innovation Center Interfacing Group

B.A. NELSON, C.C. KIM, A.P. CASSIDY, S.D. GRIFFITH, M. WROBEL, R.D. MILROY, T.R. JARBOE, University of Washington — The Interfacing Group of the Plasma Science and Innovation Center (PSI-Center) facilitates simulations of collaborating Innovative Confinement Concept (ICC) experiments. This includes helping set up meshes for simulations of experiments, assisting in comparison of simulations with experimental data, acquiring and disseminating information about simulations to PSI-Center computational groups, and acting as a conduit of information between experiments. Present collaborating experiments include the Bellan Plasma Group (Cal-Tech), FRX-L (Los Alamos National Laboratory), HIT-SI (Univ of Wash — UW), MBX (Univ of Texas-Austin), MST, Pegasus (Univ of Wisc-Madison), PHD (UW), SSPX (Lawrence Livermore National Laboratory), SSX (Swarthmore College), TCS (UW), and ZaP (UW). The Interfacing Group also administers a local development computational cluster and network. PSI-Center 3-D resistive MHD codes include NIMROD and MH4D. Results from NIMROD runs, and improved numerical diagnostics and data visualization for collaborating experiments will be presented.

Brian Nelson
University of Washington

Date submitted: 21 Jul 2006

Electronic form version 1.4