

A Celebration of High Temperature Plasma Physics
Princeton Plasma Physics Laboratory
June 5-7, 2002
Program

Wednesday, June 5

Registration Lyman Spitzer Building Lobby 8:00 AM to 5 PM

9:00 AM **Welcome and Opening Remarks**

Dr. Anne Davies, Associate SC Director for Fusion Energy Sciences, US DOE
Professor Robert Goldston, Director, Princeton Plasma Physics Laboratory

9:15 AM **Plasma Science Research at PPPL**

Dr. Richard Hawryluk, Deputy Director, Princeton Plasma Physics Laboratory

10:15 AM Break

10:30 AM **Magnetic Reconnection**

Professor James Drake, University of Maryland

11:30 AM **Plasma Boundary**

Professor Karl Lackner, European Fusion Development Agreement, Garching

12:30 PM Lunch (on own)

1:30 PM **Solar Fusion and Solar Neutrinos**

Professor John Bahcall, Institute for Advanced Study

2:30 PM **Waves in High Temperature Plasmas: A Perspective on 50 Years of Science and the Promise of Applications**

Professor Miklos Porkolab, Director, Plasma Science and Fusion Center,
Massachusetts Institute of Technology

3:30 PM Break

4:00 PM **Theory of Energetic Particles in Plasmas**

Professor Herb Berk, The University of Texas at Austin, Institute for Fusion Studies

5:00 PM **MHD Stability: From Basic Understanding to Active Control**

Professor Jerry Navratil, Columbia University

6:30 PM **Banquet At PPPL** (registered participants only)

Dr. Raymond Orbach, DOE Office of Science
Professor William Happer, Chair Princeton University Research Board

Thursday, June 6

Registration Lyman Spitzer Building Lobby 7:30 AM to 5 PM

- 8:00 AM **Unsolved Plasma Problems in Astrophysics**
 Professor Jeremy Goodman, Princeton University
- 9:00 AM **Magnetic Activity of the Sun and Stars**
 Professor Robert Rosner, Enrico Fermi Institute
- 10:00 AM Break
- 10:15 AM **Basic Plasma Physics with Trapped Nonneutral Plasmas**
 Professor Daniel Dubin, University of California at San Diego
- 11:15 AM **IFE: Where It Came From, Where It Is Going**
 Dr. Jill Dahlburg, Director, Division of Inertial Fusion Technology, General
 Atomics
- 12:15 PM Lunch (on own)
- 1:00 PM **Accomplishments and Challenges in Computational Plasma Science**
 Dr. William Tang, Chief Scientist, Princeton Plasma Physics Laboratory
- 2:00 PM **Results of JT-60U and JFT-2M in collaboration with PPPL**
 Dr. Hiro Ninomiya, JAERI
- 3:00 PM **Reception At PPPL**
 Dr. Robert Card, DOE Under Secretary for Energy, Science and Environment
- 5:00 PM **Tour of PPPL**

Friday, June 7

Registration Lyman Spitzer Building Lobby 8 AM to 10 AM

- 8:30 AM **Energetic Particles**
 Professor William Heidbrink, University of California, Irvine
- 9:30AM **Wendelstein Stellarators**
 Professor Friedrich Wagner, Max-Planck-Institut für Plasmaphysik
- 10:30 AM Break
- 10:45 AM **Future Directions in Fusion Plasma Science Research**
 Professor Robert Goldston, Director, Princeton Plasma Physics Laboratory
- Noon **Concluding Remarks**
 Dr. Anne Davies, Associate SC Director for Fusion Energy Sciences, US DOE
 Professor Robert Goldston, Director, Princeton Plasma Physics Laboratory