



*PRINCETON UNIVERSITY
DEPT. OF MECHANICAL & AEROSPACE ENGINEERING*

SEMINAR NOTICE

“Overview of Research at the Princeton Plasma Physics Laboratory”

Professor Stewart Prager, Ph.D.

*Director, Princeton Plasma Physics Laboratory
Professor of Astrophysical Sciences
Princeton, New Jersey*

ABSTRACT

PPPL is dedicated to research in the coupled fields of fusion energy and plasma physics. Despite progress that has brought the international fusion community to the point of constructing a magnetically confined plasma that will be self-sustaining and produce 500 MW of fusion power, many challenges remain. PPPL research is tackling many of these challenges, from development of new approaches for the material that surrounds the 100 million degree plasma to suppression of turbulent transport to investigation of limits to the plasma pressure. In addition to plasma physics related to fusion, PPPL research examines plasma phenomena occurring in venues, from particle accelerators to astrophysical plasmas. The presentation will survey PPPL activities in the context of the current status and opportunities in fusion and plasma physics.

BIOGRAPHY

Stewart Prager is director of the Princeton Plasma Physics Laboratory and professor of astrophysical sciences. He earned his Ph.D. in plasma physics from Columbia University. Following two years with the fusion energy research group at General Atomics in San Diego, he joined the faculty as a professor of physics at the University of Wisconsin – Madison. At Wisconsin he directed a fusion plasma physics experiment and directed the multi-institutional Center for Magnetic Self-Organization in Laboratory and Astrophysical Plasmas. In January, 2009 he joined the staff at Princeton.

*Friday, October 2, 2009
3:30 PM*

*Room 222
Bowen Hall*

ALL VISITORS ARE WELCOME!

For inquiries, please contact the Dept. of Mechanical & Aerospace Engineering at 609-258-4741

Social Period in atrium outside of Bowen 222 following the seminar.