



Science on Saturday

Princeton University Plasma Physics Laboratory
Lecture Series



JANUARY 9	TINY CONSPIRACIES: CELL-TO-CELL COMMUNICATION IN BACTERIA by Prof. Bonnie L. Bassler, Department of Molecular Biology, Princeton University Howard Hughes Medical Institute Investigator
JANUARY 16	AN EARTHLING'S GUIDE TO PHOTOGRAPHING EXTRASOLAR PLANETS by Prof. Paul Kalas, Associate Adjunct Professor, Astronomy Department, University of California–Berkeley and the Search for Extraterrestrial Intelligence (SETI) Institute, Mountain View, CA
JANUARY 23	A NEW UNDERSTANDING OF THE FIRST ELECTROMAGNETIC MACHINE – JOSEPH HENRY'S ELECTRIC MOTOR by Prof. Michael Littman, Dept. of Mechanical and Aerospace Engineering, Princeton University
JANUARY 30	TURBULENT FLOW: FROM SUBMARINES TO GLOBAL WARMING by Prof. Alexander Smits, Department of Mechanical and Aerospace Engineering, Princeton University
FEBRUARY 6	WHAT HAPPENED BEFORE THE BIG BANG? by Prof. Martin Bojowald, Associate Professor of Physics, Institute for Gravitation and the Cosmos, The Pennsylvania State University, University Park
FEBRUARY 13	BREAK AN ENZYME, HAVE A GLASS OF MILK, CONQUER A CONTINENT by Prof. Henry Harpending, Department of Anthropology, University of Utah, Salt Lake City
FEBRUARY 20	FUSION ENERGY: WHY, HOW AND WHEN? by Dr. Stewart Prager, Director, Princeton Plasma Physics Laboratory (Tour of PPPL following the lecture)
FEBRUARY 27	NO PROGRAM — DOE's NJ HIGH SCHOOL SCIENCE BOWL
MARCH 6	MAKING MUSIC: MATERIALS AND THE ART AND SCIENCE OF SOUND by Prof. Ulrike G.K. Wegst, Anne Stevens Assistant Professor, Department of Materials Science and Engineering, Drexel University, Philadelphia
MARCH 13	COLD PLASMA INTERACTION WITH LIVING TISSUE: MECHANISMS AND APPLICATIONS by Dr. Gregory Fridman, A.J. Drexel Plasma Institute, Biomedical Engineering, Drexel University

SCIENCE ON SATURDAY is a series of talks geared toward high school students, but open to all. Students, teachers, parents, and community members are welcome. There is no fee for the program.

TIME: Doors open at 8:15 a.m. Lectures begin promptly at 9:30 a.m. and usually last one hour followed by a moderated question-and-answer session which typically ends by 11:15 a.m.

REGISTRATION: Register on site prior to each session. No pre-registrations accepted. Seating is on a first-come first-served basis.

CANCELLATIONS: If it becomes necessary to cancel a session due to inclement weather, laboratory or national emergency, a message will be left on the Science-on-Saturday Hotline at (609) 243-2121.



Talks will be held in the Auditorium of the Princeton Plasma Physics Laboratory. Please note that PPPL is on the James Forrestal Campus on Route 1 North in Plainsboro, and not on the University's main campus in Princeton.

Presently, PPPL, a federal facility, is taking heightened security measures because of the September 11 national tragedy.

Upon arrival, all adult visitors must show a government-issued photo ID. This could include a passport or a driver's license. Non-U.S. citizens must show a photo ID, plus provide the following information: citizenship, date of birth, and place of birth.

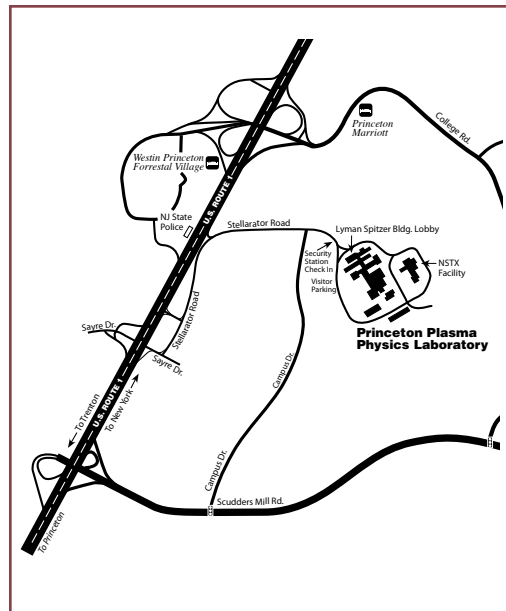
For the welfare of both our staff and visitors, PPPL security staff retain the right to inspect vehicles and personal packages such as briefcases, satchels, bookbags, and purses.

The staff and facilities of the Princeton Plasma Physics Laboratory are a valuable and unique resource for students and teachers. Meet the challenge of exploring the unknown and share the excitement of the journey. Join us in our science programs.

Science on Saturday

A series of talks geared toward high school students but open to all, the program draws more than 300 students, teachers, parents, and community members each Saturday. Topics are selected from the forefront of research in a variety of disciplines. The lectures are given by scientists, mathematicians, and other professionals involved in cutting-edge research. The program runs January through March.

For additional information please visit our website at: <http://www.pppl.gov>



Princeton Plasma Physics Laboratory
James Forrestal Campus
U.S. Rt. 1 North
Plainsboro, New Jersey

2010 Science on Saturday Program

Science Education Program

U.S. Department of Energy's
Princeton Plasma
Physics Laboratory