



Science on Saturday

Princeton University Plasma Physics Laboratory
Lecture Series



January 15

THE IDEA OF A MODULI SPACE

by Prof. Jordan Ellenberg, Department of Mathematics, Princeton University, Princeton, NJ

January 22

A QUANTUM CHEMIST LOOKS UNDER THE HOOD: WHAT MAKES MOLECULES DO THE THINGS THEY DO?

by Prof. Michelle M. Franci, Chemistry Department, Bryn Mawr College, Bryn Mawr, PA

January 29

THE BODY SYNTHETIC: BIOMATERIALS IN YOU

by Dr. Michele Marcolongo, Associate Professor, Materials Science and Engineering, Drexel University, Philadelphia, PA

February 5

GLASS, THE CANVAS FOR SCIENCE: FROM THE SCIENTIFIC GLASSBLOWER'S PERSPECTIVE

by Mr. Michael Souza, Department of Chemistry, Princeton University, Princeton, NJ

February 12

LINKING PERCEPTION TO ACTION: MECHANISMS OF THE BRAIN THAT GIVE RISE TO QUALITIES OF THE MIND

by Prof. Joshua Gold, Department of Neuroscience, School of Medicine, University of Pennsylvania, Philadelphia, PA

February 19

INVADING THE VIRUS WORLD: DETECTIVE STORIES IN INFECTIOUS DISEASE

by Prof. Joseph B. McCormick, Assistant Dean, and James H. Steele Professor, University of Texas, Houston Health Science Center, School of Public Health, Houston, TX and Prof. Susan Fisher-Hoch, Biological Sciences, University of Texas, School of Public Health at Brownsville, TX

February 26

NO PROGRAM — NEW JERSEY REGIONAL SCIENCE BOWL®

March 5

MORE PERFECT THAN WE IMAGINED: A PHYSICIST'S VIEW OF LIFE

by Prof. William Bialek, Joseph Henry Laboratories of Physics, and the Lewis-Sigler Institute for Integrative Genomics, Princeton University, Princeton, NJ

March 12

HIGH POWER LASERS: ANOTHER PATH TO FUSION ENERGY

by Dr. John D. Sethian, Manager, High Average Power Laser Program, Laser Plasma Branch, Plasma Physics Division, Naval Research Laboratory, Washington, DC

March 19

WHAT IS THE VALUE OF CONTINUED LONG-TERM RESEARCH ON WILD MOUNTAIN GORILLAS?

by Dr. H. Dieter Steklis, Professor Emeritus of Primatology, Rutgers University, New Brunswick, NJ and Vice-President for Conservation Science – The Dian Fossey Gorilla Fund International

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: Lectures begin at 9:30 a.m. and usually finish by 11:15 a.m.

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

QUESTIONS: Call the Science-on-Saturday Hotline at (609) 243-2121 and leave a message. Your call will be returned.

CANCELLATIONS: If it is necessary to cancel a session due to snow or ice storms, a message will be left on the Science-on-Saturday Hotline.



Princeton Plasma Physics Laboratory

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.

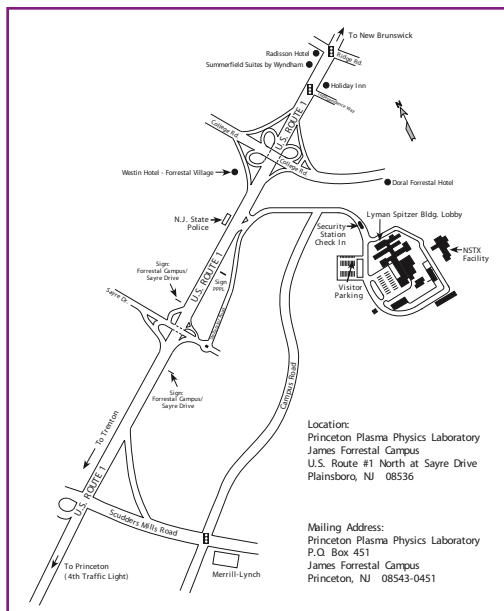
For the welfare of both our staff and visitors, PPPL security staff retain the right to inspect vehicles and personal packages such as briefcases, satchels, bookbags, and purses.

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**

2005 Science on Saturday Program

Science Education Program

Princeton Plasma
Physics Laboratory