

Agenda Rutgers PPPL Visit, June 03, 2009

9:30 am: Meet in Lobby for Tour and introduction to terminology and concepts

10:25 am: Meet in Dir. Conf. Rm. for presentations and discussion

PPPL Presentations

10:30 am: Welcoming Comments and Introductions - S.Prager, Director PPPL

10:40 am: "Overview of Current and Future Materials Needs for High Power Fusion Devices"
- H. Kugel, NSTX (20 mins)

11:05 am: "Introduction to Liquid Metal Plasma-Facing Components"
- R. Majeski, LTX (15 mins)

11:25 am: "NSTX Lithium Research, Plans, and Future Liquid Lithium R&D Needs"
- H. Kugel, NSTX (15 mins)

11:45 am: "Needs for Surface Analysis of PFCs" - R. Majeski, LTX (10 mins)

12:00-12:30 pm: Break for Working Lunch

Rutgers Presentations

12:30 pm: "Ion Beam Analysis Of Composition and Structure of Thin Films"

- Torngny Gustafsson, Physics and Eric L. Garfunkel, Chemistry and Chemical Biology (10 mins)

12:45 pm: "Solution-Derived Coating Deposition and Microstructure Control" - Dunbar P. Birnie,
Materials Science and Engineering (10 mins)

1:00 pm: "Overview of Rutgers Materials Science Programs"

- Leonard C. Feldman, Institute for Advanced Materials, Devices and Nanotechnology (10 mins)

1:15 pm: "Quantitative Nanomechanical Measurements of Thin Films and Surfaces"

- Adrian B. Mann, Materials Science and Engineering (10 mins)

1:30 pm: "An Introduction to the Rutgers Laboratory for Surface Modification and Measurements of
Electronic Energy Level Alignment at Oxide Interfaces" - Robert A. Bartynski, Physics (10 mins)

1:45 pm: "Nanostructured Tungsten to Resist Blistering in Thermonuclear Reactors"

- Stephen D. Tse, Mechanical & Aerospace Engineering, and Bernard H. Kear, Materials Science
and Engineering (10 mins)

2:00 pm Wrap-up Discussion