

PRELIMINARY SCHEDULE

Pollard Auditorium, Oak Ridge Associated Universities
210 Badger Avenue, Oak Ridge, TN

Monday, October 1, 2001

Tutorial on Engineering Applications of Neutron Diffraction

- 7:30 Registration and Continental Breakfast
- 8:30 Welcome and Overview of SNS
Thom Mason
Spallation Neutron Source
- 8:50 Introduction to Joint Institute for Neutron Sciences
Lee Magid
Joint Institute for Neutron Sciences
- 9:00 Lecture 1, Introduction to Neutron Diffraction
Jim Richardson
Argonne National Laboratory
- 10:30 *Break*
- 10:50 Lecture 2, Introduction to Neutron Stress Measurements in Engineering Components
Aaron Krawitz
University of Missouri
- 12:20 *Lunch*
- 13:30 Lecture 3, Introduction to Texture Measurements: Their Analysis and Interpretation
Rudy Wenk
University of California-Berkeley
- 15:00 *Break*
- 15:20 Lecture 4, Probing the Microstructure of Industrial Components
Stephen Spooner
Oak Ridge National Laboratory
- 16:50 *End of Monday's session*
- 18:15 Cash bar at The Garden Plaza Hotel, Oak Ridge
- 19:00 Dinner at The Garden Plaza Hotel, Oak Ridge

Dinner Speaker—Cev Noyan, IBM
Stress Problems in the Real World

Tuesday, October 2, 2001

Tutorial on Engineering Applications of Neutron Diffraction

- 7:30 Registration and Continental Breakfast
8:30 Lecture 5, Standardization of Stress Measurements with Neutrons: the VAMAS Exercise
George Webster
Imperial College, London
- 10:00 *Break*
- 10:20 Lecture 6, The Challenges of Stress Measurement by Neutron Diffraction
John Root
National Research Council of Canada
- 11:50 Closing Remarks
Tom Holden
- 12:00 Lunch and End of Tutorial

Symposium on Fundamental Studies of Materials Phenomena Using Neutrons

- 13:00 Welcome
Bob Gottschall
Basic Energy Sciences
U.S. Department of Energy
- Update of neutron instruments for materials science and engineering problems**
- 13:15 Neutron Residual Stress Mapping Facility
Cam Hubbard
Oak Ridge National Laboratory
- 13:30 SMARTS and HIPPO Capabilities
Mark Bourke
Los Alamos National Laboratory
- 13:45 TBA
Ron Rogge
National Research Council of Canada
- 14:00 TBA
Jim Richardson
Argonne National Laboratory
- 14:15 TBA
Thomas Gnaeupel-Herold
National Institute of Standards and Technology
- 14:30 VULCAN at the SNS
Xun-Li Wang
Spallation Neutron Source

- 15:00 *Break*
- 15:30 Studies of Plastic Deformation and Recrystallization in Metals by Neutron Diffraction and other Methods Dorte Jensen
Risoe National Laboratory,
Denmark
- 16:00 Small-Angle Neutron Scattering Studies of Porosity in Ceramics Andrew Allen
National Institute of
Standards and Technology
- 16:30 A Neutron Diffraction and Self-Consistent Modeling Study at the Deformation of Beryllium Don Brown
Los Alamos National
Laboratory
- 17:00 End of Tuesday's session
- 17:30 Depart Garden Plaza Hotel for Knoxville via chartered bus
- 18:15 Cash Bar at The Foundry, Knoxville
- 19:00 Dinner Buffet at The Foundry, Knoxville

Dinner Speaker - Brent Fultz, California Institute of Technology
Coherent and Incoherent Viewpoints of Scattering from Materials

Wednesday, October 3
**Symposium on Fundamental Studies of Materials Phenomena Using
Neutrons**

7:30	Registration and Continental Breakfast	
8:30	Fundamental Interactions in Martensitic Transformations Revealed by Inelastic	Stephen Shapiro Brookhaven National Laboratory
9:00	Local Disorder and Neutron Scattering: from Catalyst to High-Temperature Superconductors	Takeshi Egami University of Pennsylvania
9:30	TBA	David Price Argonne National Laboratory and CNRS-CRMHT, Orleans, France
10:00	TBA	Judy Pang Manchester University (UK) and Oak Ridge National Laboratory
10:30	<i>Break</i>	
11:00	<i>Posters</i>	
12:00	<i>Lunch and Posters</i>	
13:00	Parallel Breakout Sessions [Sign up on site]	
	I Phase Transformation	
	II Basic Mechanical Property Studies	
	III Nanostructured Materials	
	IV Functional Materials	
15:30	<i>Break</i>	
16:00	Summary	Session Leaders
17:00	Workshop Adjourns	