

**The 1st ANSWER Workshop
Tentative Program**

Sunday, November 16, 2003

Time	Title	Speaker	Status
2:00 ~ 6:00 pm	Tutorial I: Introduction to Neutron Scattering	C. Noyan A. Krawitz	Confirmed Confirmed
6:00 pm	Registration and Reception	L. Magid	Confirmed

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Monday, November 17, 2003

Monday AM Sessions (Chairs: TBD)

Time	Title	Speaker	Status
7:30 am	Continental Breakfast (60')		
Welcome			
8:30 am	Logistics, Agenda, and Goals of the Workshop (10')	P. Liaw	Confirmed
8:40 am	Welcome by UT (10')	F. Tompkins	Confirmed
8:50 am	Welcome by ORNL (10')	J. Roberto	Confirmed
Session 1: International Materials Institutes Programs and Neutron-Scattering Consortia			
9:00 am	NSF International Materials Institutes (IMI) Program (20')	C. Huber	Confirmed
9:20 am	IMI at RPI (20')	K. Rajan	Confirmed
9:40 am	IMI at Princeton (20')	W. Soboyejo	Confirmed
10:00 am	IMI at UT – ANSWER (20')	P. Liaw	Confirmed
10:20 am	UK Neutron-Scattering Consortia (20')	L. Edwards	Confirmed
10:40 am	Break (20')		
Session 2: Neutron-Scattering Facilities and Research Programs			
11:00 am	Industrial Perspective of Neutron Scattering (30')	D. Klarstrom	Confirmed
11:30 am	Overview of Neutron-Scattering Facilities (30')	I. Anderson	Confirmed
12:00 pm	Lunch Break and Poster Set Up (75')		

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Monday PM Sessions (Chairs: TBD)

Time	Title	Speaker	Status
Session 3: Neutron-Scattering Instruments I			
1:15 pm	Applied Science and Engineering on the General Purpose Powder Diffractometer at IPNS (20')	J. Richardson	Confirmed
1:35 pm	SMARTS Instrument at LANSCE (20')	D. Brown	Confirmed
1:55 pm	Exploiting Recent Advances in Strain Measurement using Pulsed Neutron Diffraction: From Crystals to Crankshafts (ENGIN-X Instrument and Software at ISIS) (30')	L. Edwards	Confirmed
2:25 pm	VULCAN - the SNS Engineering Diffractometer for Research and Education (20')	X. Wang	Confirmed
2:45 pm	Data Analysis for Neutron Scattering Experiments (20')	E. Ustundag	Confirmed
3:05 pm	Break (20')		
Session 4: Neutron-Scattering Instruments II			
3:25 pm	NRSF at HFIR (20')	C. Hubbard	Confirmed
3:45 pm	DARTS at NCNR (20')	T. Gnaeupel-Herold	Confirmed
4:05 pm	BENSC, FRM-II, and GKSS (20')	A. Pyzalla	Confirmed
4:25 pm	Residual-Stress Diffractometer at ANSTO (20')	O. Kirstein	Confirmed
4:45 pm	HRPD at KAERI (20')	C. Lee	Confirmed
5:05 pm	Break (55')		

Monday Evening Session

Time	Title	Speaker	Status
6:00 pm	Poster Presentation and Dinner	TBD	

**The 1st ANSWER Workshop
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Tuesday, November 18, 2003

Tuesday AM Sessions (Chairs: TBD)

Time	Title	Speaker	Status
7:30 am	Continental Breakfast (60')		
Session 5: Residual Stress I			
8:30 am	Measurement Volume of Diffraction Techniques and the Diffraction Average (25')	C. Noyan	Confirmed
8:55 am	Springback in Sheet Metal forming - The Role of Stress (25')	T. Gnaeupel-Herold	Confirmed
9:20 am	Diffraction Methods for In-Situ Stress Analysis (25')	A. Pyzalla	Confirmed
9:45 am	Residual Stresses in Friction Stir Welding – Modeling and Measurement (25')	Z. Feng	Confirmed
10:10 am	Break (20')		
Session 6: Residual Stress II			
10:30 am	Neutron Diffraction Measurements of Phase Stresses in Composite Materials (25')	Y. Akiniwa	Confirmed
10:55 am	Residual Stress Measurement and Numerical Simulation at Metal Ceramic Interface (25')	A. Lodini	Confirmed
11:20 am	Hot Extrusion - Challenge for Diffraction (25')	W. Reimers	Confirmed
11:45 am	Applications of Neutron Scattering in the Research at the Thermal Processing Technology Center (25')	P. Nash	Confirmed
12:10 pm	Lunch (80')		

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Tuesday PM Sessions (Chairs: TBD)

Time	Title	Speaker	Status
Session 7: Deformation I			
1:30 pm	In Situ Loading Response of WC-Ni Cemented Carbide Composites (25')	A. Krawitz	Confirmed
1:55 pm	Constitutive Behavior of Electroceramics (25')	E. Ustundag	Confirmed
2:20 pm	In-Situ Deformation and Fracture Response in Ti-Al Based Alloys (25')	B. Kad	Confirmed
2:45 pm	Lattice Strain Evolution during Creep Deformation (25')	H. Choo	Confirmed
3:10 pm	Break (20')		
Session 8: Deformation II			
3:30 pm	Engineering Neutron Diffraction Measurements Applied to Stockpile Stewardship Issues (25')	D. Brown	Confirmed
3:55 pm	Neutron Diffraction Studies of Deformation in Shape-Memory Alloys (25')	R. Vaidyanathan	Confirmed
4:20 pm	Effects of grain size on deformation of Ni (25')	J. Pang	Confirmed
4:45 pm	Time-dependent studies with X-ray and neutron scattering (25')	X. Wang	Confirmed
5:10 pm	Adjourn		

Tuesday Evening

Time	Title	Speaker	Status
6:30 pm	Banquette	T. Mason	Confirmed

**The 1st ANSWER Workshop
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Wednesday, November 19, 2003

Wednesday AM Sessions (Chairs: TBD)

Time	Title	Speaker	Status
7:30 am	Continental Breakfast (60')		
Session 9: Theoretical Modeling			
8:30 am	Polycrystal Models and Neutron Diffraction: a Marriage of Convenience (35')	C. Tome	Confirmed
9:05 am	Correlating crystal hardening with peak broadening in coordinated neutron diffraction experiments and finite element simulations (35')	P. Dawson	Confirmed
9:40 am	Mesoscale Modeling of Microstructure Evolution During Thermomechanical Processing (35')	G. Sarma	Confirmed
10:15 am	Break (20')		
Session 10: Structure-Property Studies			
10:35 am	Atomic Structure of Bulk Metallic Glasses by X-Ray and Neutron Diffraction (35')	T. Egami	Confirmed
11:10 am	Structure Solution of Ti ₄ AlN ₃ from Neutron Powder Diffraction Data (35')	C. Rawn	Confirmed
11:45 am	Combining PDF and Rietveld Analyses to Study Defect Structures in a doped-Pyrochlore (35')	S. Speakman	Confirmed
12:20 am	Lunch (80')		

Wednesday PM Sessions (Chairs: TBD)

Time	Title	Speaker	Status
Session 11: ANSWER Business			
1:40 pm	Open Discussion: International collaboration, internship, exchange program, fellowships, etc	All	
4:40 pm	Adjourn		

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Thursday, November 20, 2003

Time	Title	Speaker	Status
8:30 am	Tour of SNS and HTML at Oak Ridge National Laboratory	A. Ekkebus	Confirmed
pm	Tutorial II: Neutron Diffraction Data Analysis (Rietveld Profile Refinement)	TBD	