

***FiberNet* Fiber Diffraction Workshop**

Fall Creek Falls State Park, TN, August 6-9, 2006

Sunday, 6 August

transport leaves Nashville Airport 12:30 pm

- 3:30 Introduction (Gerald Stubbs, chairman, *FiberNet*)
3:45 Kenn Gardner (University of Delaware)
Workshop: Introduction to fiber diffraction
5:15 Welcome and meeting information (Gerald Stubbs)

Steering Committee meeting 5:30 – 6:30

Monday, 7 August

- 8:00 Tom Irving and Joseph Orgel (Illinois Institute of Technology)
BioCAT
- 8:30 R. Chandrasekaran (Purdue University)
Polysaccharides: Paradigms or Puzzles?
- 9:10 Joseph Orgel (Illinois Institute of Technology)
Crystallographic approaches to studying biological fibers
- 9:50 panel workshop: John Squire, Ganeshalingam Rajkumar
CCP13 software
- 10:50 break
- 11:05 Tim Wess (Cardiff University)
Changing order and disorder in fibrous macromolecules
- 11:50 Amy Kendall (Vanderbilt University)
Oriented sols for fiber diffraction from limited quantities or hazardous materials
- 12:05 Olga Antipova (Illinois Institute of Technology)
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- 12:20 lunch
- Afternoon free: enjoy Fall Creek Falls!
- 7:00 Paul Langan (Los Alamos National Laboratory)
Neutron fiber diffraction
- 8:00 posters

Tuesday, 8 August

- 8:15 Jianpeng Ma (Baylor College of Medicine)
Protein structural modeling guided by low-resolution experimental data
- 8:55 Kenn Gardner (University of Delaware)
New insights into the structure of poly(p-phenylene terephthalamide) from neutron fiber diffraction studies
- 9:15 panel workshop: Gerald Stubbs, Wen Bian, Alex Borovinskiy
FiberNet software
- 10:15 break
- 10:30 John Squire (Imperial College, London)
Fibre diffraction studies in muscle research
- 11:10 Dean Myles (Oak Ridge National Laboratory)
New opportunities for neutron structural biology at ORNL
- 11:45 lunch
- 1:00 leave for Oak Ridge to visit the Spallation Neutron Source & High Flux Isotope Reactor
return by about 6:00
- 7:00 posters (continued)

Wednesday, 9 August

- 9:00 Gerald Stubbs (Vanderbilt University)
A tale of two viruses
- 9:40 Rick Millane (University of Canterbury, New Zealand)
Accounting for disorder in fiber diffraction analysis
- 10:20 break
- 10:40 Michele McDonald (Vanderbilt University)
Microchambers: fibers in an enclosed cell
- 10:55 Holger Wille (UCSF)
Studying the structure of infectious prions by fiber diffraction
- 11:10 Tom Irving (Illinois Institute of Technology)
Towards an understanding of stretch activation in insect flight muscle
- 11:45 closing remarks (Gerald Stubbs)

checkout by 11:00 am

transport leaves for Nashville Airport approximately 12:45 pm

Questions about the program can be directed to Gerald Stubbs (Vanderbilt),
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