BioMaN

A neutron session at the next American Vacuum Society meeting in Boston October 30 to November 4.

The symposium is scheduled on Monday, Oct 31.



VENUE

The meeting will take place at the Hynes Convention Center in Boston, USA.

LOGISTIC INFORMATION

Location and other logistic information on the pages of the AVS 52nd International Symposium http://www2.avs.org/call/2005/symposium.html

INFORMATION

Further information and updates to the programme, on the BioMaN website. (European Neutron Portal)

www.neutron-eu.net/bioman

CONTACTS

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American Vacuum Society Meeting Boston, 31st October 2005

AVS: www2.avs.org/call/2005/bi.html INFO: www.neutron-eu.net/bioman





Symposium on

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Neutrons

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Integrated Infrastructure Initiative for Neutron Scattering and Muon Spectroscopy

NMI3 supported by the European Commission under the 5th Framework Programme through the Key Action: Strengthening the European Research Area, Research Infrastructures. Contract Number: RII3-CT-2003-505925 Phate angles: NSF - Nicholas C. OulMeia, Xalaia, and Jeshian Katherine Lee, Rusper University



www.neutron-eu.net/BioMaN

ww.neutron-eu.net Progr www.muon-eu.net Area,

SCOPE

BioMaN is aimed at introducing neutron scattering to the Biomaterials Community.

PROGRAMME

8:00-8:20 - Neutron Scattering Tutorial J.K. Zhao Spallation Neutron Source, Oak Ridge National Laboratory.

8:20-9:00 - Compositional Depth Profiles of Biomaterial Interfaces by Specular Neutron Reflection. *Chuck Majkrzak National Institute of Standards and Technology*.

9:00-9:20 - Towards a Deeper Understanding of Protein Resistance: Characterizing Water/Surface and Protein/Surface Interactions by In Situ Neutron Reflectometry. *Rainer Dahint - Heidelberg University, Germany*

9:20-10:00 - Soft Interfaces on the Nanometer Scale: how neutrons contribute to a deeper understanding on the supramolecular level. *Roland Steitz - Hahn Meitner Institut*

10:20-11:00 - Design & Structural Characterization of Amphiphilic 4-Helix Bundle Peptides Vectorially-Oriented at Soft Interfaces. *J. Kent Blasie University of Pennsylvania, USA*

11:00-11:40 - Neutron scattering and diffraction for molecular-scale characterization of biomimetic membranes. *Mathias Lösche - Johns Hopkins University.*

1:20-2:00 - Structural Analysis of Phospholipid Membranes and Toxin Assault *Tonya Kuhl University of California, Davis.* 2:00-2:40 - Effective Protein-Protein Interaction and Clustering Phenomenon in Solution Studied by Small-Angle Neutron Scattering. *Sow-Hsin Chen - Massachusetts Institute of Technology.*

2:40-3:20 - Small-angle neutron scattering: a high resolution, non-destructive probe of biomacromolecular structure. *Olwyn Byron - University of Glasgow, UK.*

3:40-4:20 - Determining the Structures of Peptides in Membranes Using Diffraction and MD Simulations. *Steve White - University of California, Irvine.*

4:20-5:00 - Exploring the collective dynamics of lipid membranes with inelastic neutron scattering. *Maikel Rheinstaedter Institute Laue-Langevin, France.*

5:00-5:40 - Meeting the future challenges in Bio-Materials Research using neutrons. *Ian Anderson -Spallation Neutron Source, Oak Ridge National Laboratory.*

ORGANIZERS

Michael Grunze Universität Heilderberg. Ian Anderson Oak Ridge National Laboratory. J.K. Zhao Oak Ridge National Laboratory. Helmut Schober - NMI3 and Institute Laue-Langevin.

Symposium Chair: Michael Grunze, University of Heidelberg.

SPONSORS

Integrated Infrastructure Initiative for Neutron Scattering and Muon Spectroscopy (NMI3). Joint Institute for Neutron Sciences (JINS). The Spallation Neutron Source (SNS).