## **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).