

# ***IConUSAS Workshop Program***

**July 9**

**Registration. Coffee & Snacks (7:30 – 8:30 AM)**

**1. Introductory session. (8:30 AM)**

**Chair: Roberto Triolo**

1. Ian Anderson “[The SNS Experimental Facilities](#)” (10 min)
2. Herbert Mook “New Neutron Scattering Opportunities at the Upgraded HFIR” (10 min)
3. Lee Magid “[Joint Institute of Neutron Science](#)” (10 min)
4. Michael Agamalian “[The Bonse-Hart Technique for Neutrons](#) ” (20 min)
5. Kenneth Littrell “[A Brief History of the Wing Problem](#)” (20 min)
6. Willem Bertram “[The Effects of Multiple Scattering on the Analysis of USANS Data](#)” (20 min)
7. Jan Saroun “[SASProFit - Program for USANS Data Evaluation](#)” (20 min)

**Coffee break (10:20 AM – 10:40 AM)**

**2. Design and Application of the Existing USANS Instruments (10:40 AM)**

**Chair: Peter Timmins**

8. Dietmar Schwahn “[The First Experiments with the Bonse-Hart Channel-cut Crystals. Application of the USANS Instrument at FRJ-2 in Jülich](#) (20 min)
9. John Barker “[Design and Application of the USANS Instrument at NIST](#)” (20 min)
10. Matthias Baron “[Design and Applications of the S18-USANS Instrument at ILL](#)” (20 min)
11. Mario Villa “[Optimization of the USANS Instruments at ILL, PSI and in Vienna](#)” (20 min)

**Lunch break (12:00 PM – 1: 30 PM)**

**3. New Projects of USANS and TOF-USANS Instruments (1:30 PM)**

**Chair: Jack Carpenter**

12. Michael Agamalian “[The TOF-USANS Instrument for SNS](#)” (20 min)
13. Kazuya Aizawa “[The TOF-USANS Instrument for Japanese SNS](#)” (20 min)

**4. Discussion of the SNS TOF-USANS Project (2:30 PM – 4:10 PM)**

**Chair: Michael Agamalian**

**Coffee break (4:10 PM – 4:30 PM)**

**5. Alternative (none Bonse-Hart) Ultra- and Very-Small-Angle Neutron Scattering Techniques (4:30 – 5:30 PM)**

**Chair: George Wignall**

- 15. Roland Gähler “[Equipping a SANS Instrument with an USANS option](#)” (20 min)
- 16. Timofei Krouglov “[Phase Transitions in Colloidal Crystals Studied with the Spin-Echo SANS](#)” (20 min)
- 17. Daniel Clemens “[Very Small-Angle Neutron Scattering Instrument for BENSC/HMI](#)” (20 min)

**Cash Bar (7:00)**

**Conference dinner (7:30 PM)**

Welcome from the SNS Administration

IConUSAS Awards from Roberto Triolo

**July 10**

**Coffee & Snacks (8:00 – 8:30 AM)**

**6. Organizing Session “IConUSAS Consortium” (8:30 AM – 9:00 AM)**

**Chair: Jack Carpenter**

**7. USANS Application in Materials & Polymer Science (9:00 AM)**

**Chair: Kenneth Littrell**

- 18. George Wignall “[USANS Study of Bends of Linear and Branched Polyethylene](#)” (20 min).
- 19. Yuri Melnichenko “[USANS and SANS Study of Porosity in Vycor Glass](#)” (20 min)
- 20. Dale Schaefer “[Multilevel Structure of Reinforcing Silica and Carbon](#)” (20 min)
- 21. Surita R. Bhatia “[Large Length-Scale Structure in Laponite Gels and Block Polyelectrolyte Solutions](#)” (20 min)
- 22. Darrin Pochan “[Nano- and Microporous Hydrogels Constructed via Peptide Self-assembly](#)” (20 min)

**Coffee break (10:40 AM – 11:00 AM)**

**8. X-ray Session (11:00 AM)**

**Chair: John Barker**

- 23. Toshio Takahashi “[Application of the Darwin Theory for Structural Study of Surface Layers](#)” (20 min)
- 24. Thomas Reiker “[USAXS on a Rotating Anode Source](#)” (20 min)
- 25. Andrew Allen “[The UNICAT Ultra-Small-Angle X-ray Double-Crystal Diffractometer at the Advanced Photon Source](#)” (20 min)
- 26. Theyencheri Narayanan “[USAXS” Studies at ESRF](#)” (20 min)

**Lunch break (12:20 – 2:00 PM)**

**8. Application of USANS in Petrology, Archaeometry, Natural & Industrial Sciences  
(2:00 PM)**

**Chair: Helmut Rauch**

- 27. Andrzej Radlinski "USANS & SANS Study of Sedimentary Rocks" (20 min)
- 28. Roberto Triolo "[Application of the USANS Technique in Natural Sciences and Archaeometry](#)" (20 min)
- 29. Willem Bertram "[Results from Time Resolved USANS Measurements on Hydrating Cement Pastes](#)" (20 min)

**Coffee break (3:00 PM – 3:20 PM)**

**9. "Non-Conventional" Application of the Bonse-Hart DCDs (3:20 PM)**

**Chair: Sam Werner**

- 30. Helmut Rauch "[USANS Study of Artificial Structures](#)" (20 min)
- 31. Wolfgang Treimer "[A Tuneable Bonse-Hart Camera. Tomographic Imaging With a Bonse-Hart Camera](#)" (30 min)
- 32. Christine Rehm "[Residual Stress & Reflectivity Measurements on Ni/Ti Multi-layer films](#)" (20 min)

**Coffee break (4:20 PM – 4:40 PM)**

**10. Break out Session "US-Japan Collaboration on USANS" (time is under discussion)**