Final Scientific Program for SIAN Conference

The 2nd US-China Workshop on Scientific and Industrial Applications Using Neutrons, Muons and Protons

Opening Session (8:30~9:20)

- 1. Dongguan City Official (5 min)
- 2. Guangdong Province Official (5 min)
- 3. Chinese Academia of Sciences (CAS) Representative (5 min)
- 4. Institute of High-Energy Physics (IHEP) Director (5 min)
- 5. U.S. Chair Prof. Sow-Hsin Chen (5 min)
- 6. China Chair Dr. Jie Wei (10 min)
- 7. Group Photo (15 min)

November 8th Session AM-1 (9:30~11:00)

Chair: Sow-Hsin Chen (MIT, USA)

Impact of Neutron- and Proton-based Sciences on Guangdong's Enterprises Chun-K. Loong (ANL)

Applied Research Opportunities at the Spallation Neutron Source Ian Anderson (ORNL)

J-PARC and the Prospective Neutron Sciences Masa Arai (JAEA)

Coffee Break (11:00~11:30)

Session AM-2 (11:30~13:00)

Chair: Jie Wei (IHEP, China)

The Researches of ADS and the Sustainable Development of the Nuclear Energy Zhixiang Zhao [赵志祥] (CIAE)

First Results From the New OPAL Research Reactor Rob Robinson (ANSTO, Australia)

The Nuclear Data Measurement Activities in China Xia Haihong [夏海鸿] (CIAE)

Lunch (13:00~14:00)

November 8th Session PM-1 (14:00~16:00)

Chair: Alan Hurd (LANL, USA)

Neutron Metrology for Fuel cell and Hydrogen Storage Research Muhammad Arif (NIST)

Neutrons and Photons in Service for Industry: 3D Structure Visualization and Characterization - Strategy to Establish the Reference for NDE and FE-Simulations Rainer Schneider (Helmholtz-Centre Berlin for Materials and Energy (HZB), Germany)

Academic and Industrial interactions of KEK Susumu Ikeda (KEK)

Progresses in Beam utilization and Application at the PEFP K. R. Kim (PEFP)

Coffee Break (16:00~16:30)

Session PM-2 (16:30~18:00)

Chair: Michi Furusaka (Hokkaido Univ., Japan)

LANSCE-CARR Collaborations and Opportunities for the Future Alan Hurd (LANL)

Application of Scattering in Polymer Research and The current progress of SANS and Reflectometer at CARR
Charles Han (IOC)

Industrial Applications of Low Energy Electron Linacs in Tsinghua U. Chuanxiang Tang [唐传祥] (Tsinghua Univ.)

November 9th Session AM-1 (8:30~11:00)

Chair: Chun-K. Loong (ANL, USA)

Ultra-Small-Angle Neutron Scattering: Principles, Applications, Concept of a Time-of-Flight Implementation, and a Revealing Experiment Jack Carpenter (ANL)

Probing hydrogen in storage materials using neutron scattering techniques Yun Liu (NIST)

Neutron Diffraction and Tomograph Studies of Earth Environment and Energy Materials Yusheng Zhao (LANL)

Application of Neutron Scattering to Engineering Problems Xun-Li Wang (ORNL)

Materials Science Using Neutron powder diffraction For Both Academic and Industrial Uses

Takashi Kamiyama (KEK)

Coffee Break (11:00~11:30)

Session AM-2 (11:30~13:00)

Chair: Rob Robinson (ANSTO, Australia)

Neutron Scattering Study of Cement Hydration Kinetics and Additive Effects Sow-Hsin Chen (MIT)

Neutrons Probe Dynamics in Industrial Materials Kenneth Herwig(ORNL)

Opportunities and Challenges of Neutron Science and Technology in Korea Sungmin Choi (KAIST, Korea)

Lunch (13:00~14:00)

Session PM-1 (14:00~16:00)

Chair: Masa Arai (JAEA, Japan)

Focusing small-angle neutron scattering instrument and its applications

Michi Furusaka (Hokkaido U.)

Neutron Optics for Enhancement of Neutron Utilization Efficacy Hirohiko Shimizu (KEK)

The application of Hefei light source Yangchao Tian [田扬超] (USTC)

Advanced Neutron Optics made by SwissNeutronics Christian Schanzer (SwissNeutronics)

Coffee Break (16:00~16:30)

Session PM-2 (16:30~18:00)

Chair: Dongfeng Chen (CIAE, China)

Applications of Neutron Radiography Zhiyu Guo [郭之虞] (Beijing Univ.)

Applications of Reactor Neutron Activation Analysis in Industrial and Environmental Fields

Ni Bangfa [倪邦发] (CIAE)

The Industrial Application of Radioisotopes Luo Zhifu [罗志福] (CIAE)

Conference Summary

Jie Wei (IHEP, China) and Chun-K. Loong (ANL, USA)