

# J-PARC Workshop 2018

## Deuterium Labeling Study for Neutron Science

January 15, 16th, 2019

Ibaraki Quantum Beam Research Center (IQBRC) B201, Tokai, Japan

## Program

Sponsored by J-PARC Center

Co-sponsored by CROSS & J-PARC MLF Users Society

In cooperation with The Japanese Society for Process Chemistry & QST



January 15<sup>th</sup>

- 12:00–13:30 Reception
- 13:30–13:40 Opening & Introduction of J-PARC MLF  
T. Kanaya (KEK/J-PARC Center)
- 13:40–13:50 Introduction of J-PARC MLF Users Society for Deuterium  
Labeled Materials, H. Sajiki (Gifu Pharmaceutical Univ.)

**Plenary Session 1**

Chair : H. Sajiki (Gifu Pharmaceutical Univ.)

- 13:50–14:40 Activity at ANSTO, T. A. Darwish (ANSTO-NDF)

**Coffee Break (14:40-15:00)**

**Science Session\_1\_Chemistry**

Chair : K. Akutsu (CROSS)

- 15:00–15:30 Synthesis of Deuterium Labeled Compounds,  
M. Kuriyama (Nagasaki Univ)
- 15:30–16:00 Dynamics of Imidazolium Ionic Liquid,  
O. Yamamuro (Univ. of Tokyo)
- 16:00–16:30 Synthesis and SANS measurement of Deuterated Polymer  
I. Akiba (Univ. of Kitakyushu)

**Science Session\_2\_ Industry (Japanese Session)**

Chair : T. Miyazaki (CROSS)

- 16:30–17:00 Introduction of Iwatani  
S. Ohkawa (Iwatani Co., Ltd.)
- 17:00–17:30 Introduction of Shoko Science,  
R. Sato (Shoko Science Co., Ltd.)

**Dinner at Hakkaku (18:30-)**

January 16<sup>th</sup>

**Science Session\_3\_ Biology**

Chair : M. Adachi (QST)

- 9:00–9:30 Structural analysis of protein complex utilizing inverse contrast matching SANS M. Sugiyama (Kyoto Univ.)
- 9:30–10:00 Dynamics of Phospholipid T. Yamada (CROSS)
- 10:00–10:30 Protein deuteration and analysis T. Oda (Yokohama City Univ.)

**Coffee Break and Group Photo (10:30-11:00)**

**Plenary Session 2**

Chair : K. Akutsu (CROSS)

- 11:00–11:50 Activity at ORNL, Kunlun Hong (Oak Ridge National Laboratory)

**Lunch Time (11:50-13:00)**

**Science Session\_4\_ Polymer Science**

Chair : H. Aoki (JAEA/KEK/J-PARC Center)

- 13:00–13:30 Polymer analysis using SANS, A. Takano (Nagoya Univ.)
- 13:30–14:00 Polymer analysis using NR D. Kawaguchi (Kyusyu Univ.)

**Report from J-PARC MLF**

Chair : Y. Kawakita (J-PARC Center/JAEA)

- 14:00–14:20 Current Status of J-PARC MLF Deuteration Laboratory, H. Aoki (JAEA/J-PARC Center)
- 14:20–14:40 BL15 TAIKAN, S. Takata (JAEA/J-PARC Center)
- 14:40–15:00 BL16 SOFIA, F. Nemoto (KEK/J-PARC Center)
- 15:00–15:05 Closing T. Kanaya (KEK/J-PARC Center)

**Site visit to J-PARC (15:10-17:00)**