



Livermore Valley, California, USA

1. Symposium Scope

The second Asia-Pacific symposium on Tritium science (APSOT-2) will cover the topics of tritium science related to fusion energy research. The objective of the symposium is to provide a forum for an exchange of information on tritium science, technology, engineering, and general experiences with safe tritium handling for fusion energy. This symposium will also offer a timely opportunity to discuss recent international developments.

The Asia-Pacific symposium on Tritium science originates from the China-Japan tritium mini-workshop focused on the understanding of tritium science needed for fusion energy development. This biannual series of meetings was initiated in Mianyang, China in 2006. The China-Japan tritium mini-workshop has become an important forum for scientists to exchange new information about tritium science and technologies for fusion energy. With the current planning for DT operation in ITER and its construction in the next decade, the need to develop a science-based understanding of tritium effects has increased in importance towards the demonstration of fusion power. It was therefore necessary, to expand the China-Japan Tritium mini-workshop to the larger forum offered by the Asia-Pacific Symposium on Tritium science. APSOT-2 will follow the first biannual symposium which was held in Mianyang, China in November 2015.

APSOT intends to attract not only well-experienced tritium experts but also young scientists, engineers and students who are new to this field from all over the world.

2. Topics

The fields of APSOT include tritium physics, chemistry, biology, environmental science, isotopic applications, etc. The topics of APSOT are as follows:

1. Containment / safety
2. Decontamination and waste management
3. Detritiation / purification
4. Isotopic separation and isotope effects
5. Handling facilities
6. Industrial and biomedical applications
7. Behavior in the environment
8. Materials for tritium handling
9. Measurement, monitoring, and accounting
10. Processing, transport, and storage
11. Plasma material interactions and recycling of hydrogen isotopes

3. Language

The working language for the symposium is English.

4. Abstract and Proceedings

4.1 Abstract and registration

Abstracts of no more than 300 words should be submitted electronically by April 30, 2017. Abstracts can be submitted by sending to apsot2@sandia.gov. Abstracts will be collected and distributed at the symposium.

4.2 Proceedings

The proceedings will be published in a special issue of **Fusion Engineering and Design** following a peer-review process. Details will be given in the second announcement. The manuscript should be submitted by September 8, 2017.

4.3 Format of proceedings:

Normally the manuscript should not exceed 6 pages. The format of the manuscript should follow the directions for publication in **Fusion Engineering and Design**.

5. Committees

James Klein (Chair)	SRNL
Yuji Hatano (Co-Chair)	Univ. Toyama, Japan

5.1 International Organizing Committee Members

Dean Buchenauer	SNL, USA	Yasuhisa Oya	Shizuoka Univ., Japan
Kaming Feng	SWIP, China	Shuming Peng	CAEP, China
Satoshi Fukada	Kyushu Univ., Japan	Masashi Shimada	INL, USA
Yuji Hatano	Univ. Toyama, Japan	Kyu Min Song	KAERI, Korea
Qunying Huang	INEST, China	Alexander Spitsyn	Kurchatov Inst., Russia
Kijung Jung	KODA, Korea	Yury Streblov	Dollezhal Inst., Russia
James Klein	SRNL, USA	Sei-Hun Yun	NFRI, Korea
Guang-Nan Luo	ASIPP, China		

5.2 Local Organizing Committee Members

Dean Buchenauer (Chair)	SNL, USA
Richard Karnesky	SNL, USA
Chris San Marchi	SNL, USA

5.3 Publication Committee

Masashi Shimada (Chair)	INL, USA
Yasuhisa Oya (Co-Chair)	Shizuoka Univ., Japan

5.4 General Secretariats

Robert Kolasinski	SNL, USA	Kazunari Katayama	Kyushu Univ.
Email: apsot2@sandia.gov		Email: kadzu@nucl.kyushu-u.ac.jp	

6. Website

The website for APSOT-2 can be found at <https://connect.sandia.gov/sites/apsot2>

7. Venue

The APSOT-2 will take place in the Livermore Valley, close to the San Francisco Bay Area. A tour of the National Ignition Facility at the Lawrence Livermore National Laboratory will be included in the program. Please note that a separate registration procedure will be needed for all visitors requesting this tour.

8. Accommodation

Information regarding the symposium hotel and banquet will be provided in the second announcement.

9. Transportation

The symposium hotel will be conveniently located near the Bay Area Rapid Transit (BART) system. There is a free shuttle between the Pleasanton BART station and the hotel.

10. Registration fee

The registration fee for the symposium will be announced in the 2nd announcement. This fee will cover a copy of the symposium proceedings, admission to technical sessions, welcome reception, and coffee services during the session breaks. A banquet is also included at the symposium hotel.

11. Key Dates

First announcement	October 10, 2016
Abstract submission	Open February 1, 2017 Due April 30, 2017
Notification to authors	June 1, 2017
Registration	Due July 31, 2017
Manuscript	Due September 8, 2017

12. Tentative Program Overview

Date	AM	PM
Sept. 5 (Tue)	Travel to California	Plenary
Sept. 6 (Wed)	Oral	Poster session, NIF tour
Sept. 7 (Thu)	Oral	Oral
Sept. 8 (Fri)	Oral	Travel home (or final session if needed)