

7th International Symposium on Material Testing Reactors



ISMTRs topics & summaries

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ISMTR-1 (Jul. 16-17, 2008, JAEA Oarai, Japan)

- How to Establish the Strategic Partnership ?
- Management on Re-operation Work at Reactor Trouble
- Basic Technology for Neutron Irradiation Tests in MTR

Necessity of the world network was recognized, and should continue the information exchange among each testing reactors for mutual understanding through the ISMTR.

ISMTR-2 (Sep.28-30, 2009, Idaho Falls, USA)

- Regulation system concerning reactor scram events in the world
- Synopsis by topic and path forward introduction

Information sharing was addressed as an important point among each testing reactors, and should continue the meeting to exchange the irradiation technology development, stable production technology of medical isotopes etc.

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ISMTR-3 (Jun. 21-23, 2010, NRI Rez, Czech Republic)

- Periodical inspection of reactors, system for users
- Construction of world network

It was agreed that the “information shearing” on the irradiation technology development, the RI production technology development etc. and “mutual complementary relationship” were important. As a first step: construction of MTRs website.

ISMTR-4 (Dec. 5-9, 2011, Oarai, Japan)

- Mo-99 production by (n,γ) reaction
- Standardization of irradiation technology
- Next generation MTR

Mo-99 production by (n,γ) method will to be discussing in detail for technical aspects such as target fabrication, irradiation Standardization of irradiation technology to reduce the facility construction cost as well



ISMTR-4 (Dec. 5-9, 2011, Oarai, Japan) - continuation

as to enhance the human resource development, and cooperation subjects such as proposed round robin test, neutron / temperature measurement including the evaluation will be discussed in more detail.

It is not easy to find common cooperation area for the next generation MTR, because each country carries out the design, and the construction purpose is different from country by country. However, new research reactors construction is interesting for participants, then the information exchange will be continue.

ISMTR-5 (Oct. 22-25, 2012, Columbia, Missouri, USA)

- Mo-99 production by (n, γ) reaction
- Standardization of irradiation technology
- Next generation MTR

Importance of continues information exchange for Mo-99 production, round robin test of irradiation test standardization and next generation of material testing reactors.

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ISMTR-6 (Oct. 28-31, 2013, Bariloche, Argentina)

- **Standardization of irradiation technology by evaluation of nuclear heat**

Discussion will be continues.

ISMTR-7 (Oct. 20-22, 2014, Otwock-Świerk, Poland)

- **Status and future plans**
- **Expansion of the industry usage**
- **Advance in irradiation testing and PIE**
- **Facility upgrade**
- **Ageing management**
- **New and innovative MTRs design**
- **MTR fuels, design, safety evaluation and conversion**
- **Human Resources and training**
- **Mo-99 production by fusion and (n, γ) reaction methods**