

# 26th International Conference on Nuclear Tracks in Solids

15th -19th September 2014, Kobe, Japan



## Call for Papers



### Outline

The 26th International Conference on Nuclear Tracks in Solids provides a platform to present and exchange recent achievements on the fundamental and applied research of nuclear tracks, including that in etched track detectors and nuclear emulsion. The scope of this conference covers various branches of science and technology such as space radiation, nuclear physics, nuclear chemistry, neutron dosimetry, heavy ion interactions, radon dosimetry, radiation biology, geology and dating, laser driven particle acceleration and track nanotechnology. The formation process of tracks in solids is also a research topic that has been investigated from the viewpoint of radiation physics, radiation chemistry and Monte Carlo simulation. This is a unique international conference where attendees from many different fields will come together to discuss on the fundamental principles and applications of nuclear tracks, which has a long history established in 1957.

This Conference is jointly organized by the International Nuclear Track Society and Kobe University, which is also supported by the Ionizing Radiation Division (The Japan Society of Applied Physics) and the Japan Society of Nuclear Track Detectors.

### Main Topics

- Space Radiations
- Nuclear Physics and Chemistry
- Nuclear Track Physics and Chemistry
- Applications of Nuclear Emulsion
- Fluorescent Nuclear Track Detector and other Novel Track Detectors
- Laser Driven Particle Acceleration
- Beam Diagnostic for Hadron Therapy
- Neutron Measurements and Analysis
- Materials and Heavy Ions
- Radon Detection and Measurements
- Life Science
- Fission Track Dating and Geology
- Instrumentation and Software
- Nanotechnology

## Invited Talks

*tentative*

**Prof. Hisaya Kurashige**, Kobe University, Japan

"Highlight of Results from ATLAS at LHC"

**Dr. Mark Akselrod**, Landauer, Inc., USA

"Latest Advances in Luminescent Materials and Instrumentation for Fluorescent Nuclear Track Detection"

**Dr. Kunihiro Morishima**, Nagoya University, Japan

"Latest Developments in Nuclear Emulsion Technology"

**Prof. Yugang Wang**, Peking University, China

"Functional Nanopores Based on Nuclear Tracks"

**Prof. Eric Benton**, Oklahoma State University, USA

"The Use of CR-39 PNTD in Measuring Secondary Neutrons in Proton and Photon Radiotherapy"

**Dr. Mamiko Nishiuchi**, Japan Atomic Energy Agency, Japan

"Multi-charged Heavy Ion Acceleration from the Ultra-intense Short Pulse Laser System Interacting with the Metal Target"

**Prof. S. K. Chakarvarti**, Manav Rachna International University, India

"Nuclear Tracks in Students Laboratory : Some Simple Experiments"

**Prof. Sandro Guedes**, State University of Campinas, Brazil

"Calibration for the Fission-Track Dating using LA-ICP-MS"

**Prof. Rémi Barillon**, Université de Strasbourg, France

"Chemical Structure of Heavy Ion Tracks in Polymers"

**Prof. Michel Fromm**, Université de Franche-Comté, France

"Low Energy Electrons and the Track Structure of Swift Ions in CR-39"

**Dr. Koichi Awazu**, National Institute of Advanced Industrial Science and Technology, Japan

"High Sensitive Palmtop Sensor with Etched Tracks on a Sensor-Plate"

## Submission of Abstracts

Contributed papers for oral and poster sections will be selected on the basis of submitted abstracts. They must be submitted in English by the end of May 2014, at the Conference website. Please attain your own Login ID before the submission.

<http://www.org.kobe-u.ac.jp/icnts26/index.html>

# Proceedings

*important*

All accepted contributions will be published as *Physics Procedia* of Elsevier, an open access product from Elsevier focusing entirely on publishing conference proceedings. A selected set of manuscripts will be published additionally as normal peer reviewed research articles in a special issue of *Radiation Measurements*. Instructions to authors will be given through the conference website. *Physics Procedia* (<http://www.journals.elsevier.com/physics-procedia/>).

## Conference Fee

Full rate includes proceedings and book of abstracts, INTS membership (3 years), coffee breaks, lunches and the banquet. Student rate includes book of abstracts, coffee breaks, lunches and the banquet. Accompanying person rate includes coffee breaks, lunches and the banquet.

	Advanced Registration (On or before 31st July)	Standard/On-site Registration (On or After 1st August)
Regular Member	JPY 50,000	JPY 60,000
Student Participant	JPY 30,000	JPY 40,000
Accompanying Person	JPY 20,000	JPY 20,000

## Accommodation

Hotel information is provided for Kobe Portopia Hotel, Sannomiya Terminal Hotel, Kobe Tokyu Inn and Daiwa Roynet Hotel-Kobe-Sannomiya in the Conference website. The Organizing Committee is trying to offer rooms in a hostel-type facility near the conference site, Nichii Gakkan Kobe Port Island Center, with an economic price. Details are in the website.

## Venue

<http://www.kobe-u.ac.jp/kuirc/>

The Hall of Integrated Research Center of Kobe University will be utilized as the main conference site located in Port Island, which is an artificial island in Kobe city. This building is adjacent to “K computer”, which is the best super computer in Japan. More information on the transportation will be given in the next circulation. Or please visit the site of the Integrated Research Center of Kobe University in the bellows.



Integrated Research Center of Kobe University

[http://www.kobe-u.ac.jp/kuirc/files/kuirc\\_201308\\_en.pdf](http://www.kobe-u.ac.jp/kuirc/files/kuirc_201308_en.pdf)

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## Contact

Secretary of Organizing Committee for 26th ICNS

5-5-1 Fukaeminami-machi, Higashinada-ku, Kobe 658-0022, Japan  
Graduate School of Maritime Sciences, Kobe University, Japan

E-mail : [icnts26@maritime.kobe-u.ac.jp](mailto:icnts26@maritime.kobe-u.ac.jp)