

Fifth International Workshop on Compound-Nuclear Reactions and Related Topics, CNR\*15

1st Circular (Dec. 2014)

This is the first announcement of the Fifth International Workshop on Compound-Nuclear Reactions and Related Topics (CNR\*15) which will be held at the Tokyo Institute of Technology, during October 19-23, 2015. This workshop is the fifth in the bi-yearly series: CNR\*07 organized in Yosemite (Oct. 2007), CNR\*09 in Bordeaux (Oct. 2009), CNR\*11 in Prague (Oct. 2011), and CNR\*13 in Maresias (Oct. 2013).

CNR\*15 will assess the status of knowledge of compound-nuclear reactions, review current theoretical and experimental efforts aimed at understanding compound-nuclear reactions, identify areas in need of development, and outline possible strategies for addressing these needs. The meeting's objective is to advance the field of compound nuclear reactions and related physics by encouraging collaboration between experts in nuclear theory, experiment, and data evaluation. Sessions will be organized to stimulate interactions between these groups and time will be allocated for discussions.

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Topics of interest to CNR\*15 include:

Nuclear reaction mechanisms, optical model, direct reactions and compound nucleus, pre-equilibrium reactions, nuclear fission, decay of the compound nucleus, the Hauser-Feshbach statistical model, level densities, photon strength functions, nuclear structure effects on compound-nuclear reactions, R-matrix models and parameterizations, microscopic theories of nuclear reactions, neutron-induced cross section measurements, surrogate reactions, nuclear astrophysics, applications, nuclear energy, nuclear fusion and other related topics.

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Venue and Accommodation:

The Workshop venue will be the Multi-Purpose Digital Hall at Tokyo Institute of Technology, Ookayama, Tokyo, Japan ([http://www.dst.titech.ac.jp/outline/facility/hall\\_en.html](http://www.dst.titech.ac.jp/outline/facility/hall_en.html)).

The campus of the Tokyo Inst. Tech. Ookayama

<http://www.titech.ac.jp/english/index.html>

International Airport or Tokyo International Airport (Haneda is about 10km west of the center of Tokyo, and is readily accessible from any hotel in Tokyo via public transportation -- the Tokyo Metro is particularly convenient. Hotel prices in Tokyo may range widely, but reasonable rates at about \$100/night or less are available. Some suggestions on the lodging will be provided in the second announcement. International travel is available also through Narita airport). The city center is roughly an hour by train from Narita; Haneda, is about 30 minutes.

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Abstracts:

Abstracts should be less than one page long and should be submitted in the PDF format via e-mail to [cnr15@nr.titech.ac.jp](mailto:cnr15@nr.titech.ac.jp). The deadline for the submission of abstracts is May 15, 2015.

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Proceedings:

We plan to publish the proceedings of the Workshop in electronic form via an open-access journal.

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**Important Dates:**

**Abstract submission: May 15, 2015**

**Speaker notification: June 19, 2015**

**Registration: September 25, 2015**

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International Advisory Committee:

Y. Alhassid (Yale University)  
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Contact:

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Further details on the CNR\*15 conference :

<http://www.nr.titech.ac.jp/~chiba/CNR15/index.html>