

Call for Papers

# CLES/LANSA'17



## Conference on Laser Energy Science / Laser and Accelerator Neutron Sources and Applications 2017

Held jointly with Optics & Photonics International 2017

<http://lansa.opicon.jp/>

*In cooperation with*

- The Institute of Laser Engineering, Osaka University
- The Graduate School for the Creation of New Photonics Industries
- The IFE Forum (IFE: Inertial Fusion Energy)
- The Japan Society of Plasma Science and Nuclear Fusion
- The Laser Society of Japan
- The Atomic Energy Society of Japan



April 18 (Tue.) – April 21 (Fri.), 2017  
Pacifico Yokohama  
Yokohama, Japan

Abstract Deadline: Dec. 12(Mon.), 2016

## OBJECTIVE

Recent advancement of high power laser technologies enable us to open a new horizon of neutron sources along with conventional ones based on accelerators and nuclear reactors. Various types of short-pulse, high-fluence neutron sources have been developed including laser-driven fusion, laser accelerated ion beams, photonuclear reactions, cluster-explosions, as well as various types of accelerators. And, these neutrons are used in a wide variety of applications for such as material science, medical science, non-destructive investigation, security, and neutron radiography.

The first international meeting was held in 2013 by setting laser-assisted neutron sources and applications as key terms, in order to overview the status and future prospects of relevant fields. In the late 2015, a national project of Japan has started aiming at innovative improvement of compact neutron sources based on both laser and accelerators dedicated for industrial applications. Upon these backgrounds, the 2<sup>nd</sup> forum will be held in order to provide an opportunity for participants to exchange mutual information and activate their own researches.

## SCOPE

- **Compact Neutron Sources** (laser fusion, cluster explosion, laser-driven ion beams, photonuclear reactions, LINAC, cyclotron, electrostatic accelerators, nuclear reactors, RI, et al.)
- **Physics / Control Technologies** (particle acceleration, radiation generation, energy and angular distribution, moderators, neutron optics, control system, et al.)
- **Neutron Diagnostics** (high resolution measurements in space, time and energy, sensitive imaging, radiography, et al.)
- **Applications** (nuclear transmutations, nuclear waste processing, biomedical applications, non-distractive investigation, neutron radiography, fusion reactor material investigations, fusion-fission hybrid-reactors, et al.)
- **Facilities** (laser facility and technology, accelerator facility and technology, target technology, et al.)

## FORMAT

Organized sessions will consist of invited oral presentations of 40 min. and contributed oral presentations of 20 min. duration including discussion. In addition to these regular oral sessions, poster presentation session will be planned to stimulate the discussion of the field. The author(s) of papers will be informed of the size of bulletin board for displaying summary, figures, tables, etc., when selected as poster papers.

## SUBMISSION OF PAPERS

Original papers that have not been previously presented and that describe new contributions in the areas covered by the descriptions above will be accepted for presentation.

Detailed instructions are available at the conference website:

<http://lansa.opicon.jp/>

Authors are requested to submit an abstract (summary paper) written in English, that fits within a one-page 17 cm x 24 cm template, including text, figures, tables, and references. The template for abstracts can be downloaded from the website above. Abstracts should be submitted electronically to the address shown in the website, **no later than Dec. 12, 2016**. The tentative program will be open on **Jan. 31, 2017**.

## Journal of Plasma and Fusion Research

Presenters of CLES/LANSA '17 are encouraged to submit their original papers to *Journal of Plasma and Fusion Research* (\*), the journal of the Japan Society of Plasma Science and Nuclear Fusion Research. Submissions from invited speakers and young scientists are especially welcome. The submission fee will be supported by the Conference. The deadline for submission is **May 31, 2017**. Please note that all submissions will be peer-reviewed following the editorial policy of *Journal of Plasma and Fusion Research*. Manuscripts should follow submission guidelines "Instructions for the Preparation of Manuscripts" and be submitted through the electronic form on the internet.

\*) <http://www.jspf.or.jp/PFR/about.html>

## REGISTRATION

Registration start: **Dec. 15, 2016**

### Registration Fees

	On/ Before 21 March 2017	After 22 March 2017
<b>Member*</b>	¥55, 000	¥60, 000
<b>Student, Retiree (Member*)</b>	¥18, 000	¥21, 000
<b>Non-member</b>	¥65, 000	¥70, 000
<b>Student, Retiree (Non-member)</b>	¥21, 000	¥23, 000

\*For those who are belonging to OPIC2017 organizers, sponsors and cooperative societies. They are listed in OPIC2017 web-site.

## **OPTICS & PHOTONICS International Congress 2017 (OPIC2017)**

Twelve international conferences are going to be held simultaneously. By registering for this conference (LANSA '17), you can participate in all of them:

- **The 6th Advanced Laser & Photon Sources (ALPS'17)**
- **Biomedical Imaging and Sensing Conference 2017 (BISC'17)**
- **Conference on Laser Energy Science / Laser and Accelerator Neutron Sources and Applications 2017 (CLES/LANSA'17)**
- **International Conference on High Energy Density Science 2017 (HEDS2017)**
- **International Conference on Nanophotonics and Nanooptoelectronics (ICNN2017)**
- **Information Photonics 2017 (IP'17)**
- **Laser Display and Lighting Conference 2017 (LDC'17)**
- **The 5<sup>th</sup> International Conference on Light-Emitting Devices and Their Industrial Applications (LEDIA'17)**
- **Light driven Nuclear-Particle physics and Cosmology (LNPC'17)**
- **Laser Solution for Space and the Earth (LSSE2017)**
- **The 4<sup>th</sup> Optical Manipulation Conference 2017 (OMC'17)**
- **International Conference on X-ray Optics and Applications 2017 (XOPT'17)**

OPIC2017 website: <http://opicon.jp/>

## **EXHIBITION**

OPTICS & PHOTONICS International Exhibition (OPIE'17) will be held simultaneously on April 19 (Wed.) - April 21 (Fri.) at Pacifico Yokohama.

## CLES/LANSA'17 COMMITTEE MEMBERS

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Hiroaki Nishimura (ILE, Osaka Univ., Japan)

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