



# AEARU Advanced Materials Science Workshop 2017 : Call for Applications

1. Outline	<p>Osaka University will host the AEARU* Advanced Materials Science Workshop 2017 for students from AEARU member universities. Invited professors from top-tier Asian universities will discuss the recent progress of material science. The workshop will focus on the state-of-the-art research topics in advanced smart materials &amp; processing such as nanocomposites, ultralight &amp; high-strength metals, biomaterials, 3D printing process and materials informatics. There will be a company tour for understanding the manufacturing and a city tour for a cultural learning experience in Osaka. For more details, please refer to page 2-4.</p> <p>* Established in 1996, the Association of East Asian Research Universities (AEARU) is a consortium that promotes exchange and cooperation activities between member universities. Including Tokyo Tech, a total of 18 leading universities in China, Hong Kong, Japan, Korea, and Taiwan comprise AEARU.</p>
2. Dates	Wednesday, November 1 – Thursday, November 2, 2017
3. Venue	Convention Center, Osaka University (Osaka, Japan)
4. Eligibility	Tokyo Tech undergraduate and graduate students
5. Number of nominees	2 students
6. Fees and Financial Support	No fees are required. Accommodation expenses (three nights) and meals during the program will be provided for Tokyo Tech's two nominees. Participants are responsible for travel and other expenditures
7. Application Documents	<p>① AEARU Program Application Form (Form ①)          ② Registration Form (Form ②)          ③ Official Transcripts (for all universities attended, including your current program)          ④ Certification of English language ability (copy of the original document)</p> <ul style="list-style-type: none"> <li>• The Application Form ① and the Registration Form ② can be downloaded from <a href="http://s-www.jim.titech.ac.jp/english/globalization/featured/aearu.html">http://s-www.jim.titech.ac.jp/english/globalization/featured/aearu.html</a></li> <li>• Incomplete documents will not be accepted.</li> </ul>
8. Deadline	<b>Thursday, July 20, 2017 at 17:00</b>
9. Application Submission & Inquiries	<p>International Cooperation Division          (South Bldg 6, 3F, Room 301B) (Mail box: S6-6)          For inquiry: Email: <a href="mailto:kokuren.aearu@jim.titech.ac.jp">kokuren.aearu@jim.titech.ac.jp</a>          (Send with the title "AEARU Materials WS") Tel: 03-5734-3016</p>
10. Selection Procedure	Selection interviews may be held. The time and date of the interview will be announced after July 20.

## **Announcement & Call for Presentations AEARU Advanced Materials Science Workshop “State of the art research in Materials Science”**

### **Introduction**

The workshop will provide a platform for top-tier Asian universities including AEARU members to discuss the recent progress of materials science, and then result in strengthening an international collaboration by constructing the researchers' network and promoting international joint researches. We particularly would like to focus on the state of the art research topics in advanced smart materials & processing such as nanocomposites, ultralight & high-strength metals, biomaterials, 3D printing process and materials informatics by keynote speeches from distinguished researchers. In addition, through the workshop, there will be having a company tour for understanding the manufacturing and a city tour for cultural learning experiences in Osaka.

### **Topics**

The fundamental and novel research topics regarding materials science- functional materials, structural materials, biomaterials and materials informatics, will be introduced and the discussions will be gone in each talk on state of the art research in materials science and engineering.

### **Venue**

Convention Center, Osaka University

### **Registration**

Those who would like to participate in the workshop are required to submit the completed form by email to [kokusai-koryu-suisin@office.osaka-u.ac.jp](mailto:kokusai-koryu-suisin@office.osaka-u.ac.jp) no later than Sunday, August 20.

### **Financial Support**

Osaka University will provide accommodations for three nights, as well as meals and local transportation between the hotel and Osaka University during the workshop, for up to 2 students from each of the AEARU member universities.

**Program**

November 1

Lectures by invited Professors from overseas and Japanese AEARU Member universities.

November 2

Company tour (Daikin Industries, Ltd.) and a city tour

**Invited professors****【Functional Materials】**

Prof. Koki Takanashi, Institute for Materials Research, Tohoku University, Japan

Prof. Yasufumi Fujiwara, Graduate School of Engineering, Osaka University, Japan

**【Structural Materials】**

Prof. Hideki Hosoda, Interdisciplinary Graduate School of Science & Engineering, Tokyo Institute of Technology, Japan

Prof. Hideyuki Yasuda, Graduate School of Engineering, Kyoto University, Japan

**【Biomaterials】**

Prof. Emeritus, Mitsuo Niinomi, Tohoku University, Japan

Prof. Takayoshi Nakano, Graduate School of Engineering, Osaka University, Japan

**【Materials Informatics】**

Prof. Teruyasu Mizoguchi, Institute of Industrial Science, University of Tokyo, Japan

Prof. Masato Yoshiya, Graduate School of Engineering, Osaka University, Japan

\*We are expecting to have more professors to invite for each area. Names and institutions is to be determined.

**Organizing Committee**

Professor Katsuyoshi Kondoh, Department of Composite Materials Processing, Joining and Welding Research Institute (JWRI), Osaka University

Professor Shinji Fujimoto, Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University

**Contact / inquiries**

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International Affairs Division, International Affairs Department,  
Osaka University

**AEARU Advanced Materials Science Workshop 2017 in Osaka University  
(tentative version)**

Date	Time	Program	meals	Venue
31-Oct		Arrival Hotel Check-in		Hotel Crest Ibaraki
1-Nov	8:30	Bus departure from the hotel to Osaka University Suita campus	○	Hotel Crest Ibaraki
	9:00-9:30	Registration		Convention Center, Osaka University
	9:30-11:00	<b>Opening Remarks / Keynote Address</b> <b>Session1 "Functional Materials"</b> <ul style="list-style-type: none"> <li>• Prof. Koki Takanashi, <i>Institute for Materials Research, Tohoku University</i></li> <li>• Prof. Yasufumi Fujiwara, <i>Graduate School of Engineering, Osaka University</i></li> <li>• tbc:</li> </ul>		
	11:00-11:15	Break		
	11:15-13:00	<b>Session2 "Structural Materials"</b> <ul style="list-style-type: none"> <li>• Prof. Hideki Hosoda, <i>Institute of Innovative Research, Laboratory for Materials and Structure</i></li> <li>• Prof. Hideyuki Yasuda, <i>Graduate School of Engineering, Kyoto University</i></li> <li>• tbc</li> </ul>		
	13:00-14:00	Lunch	○	
	14:00-15:30	<b>Session3 "Medical Merials"</b> <ul style="list-style-type: none"> <li>• Prof. Emeritus, Mitsuo Niinomi, <i>Tohoku University</i></li> <li>• Prof. Takayoshi Nakano, <i>Graduate School of Engineering, Osaka University</i></li> <li>• tbc:</li> </ul>		Convention Center, Osaka University
	15:30-15:45	Break		
	15:45-17:15	<b>Session4 "Materials Informatics"</b> <ul style="list-style-type: none"> <li>• Prof. Teruyasu Mizoguchi, <i>Institute of Industrial Science, University of Tokyo</i></li> <li>• Prof. Masato Yoshiya, <i>Graduate School of Engineering, Osaka University</i></li> <li>• tbc:</li> </ul>		
	18:00-20:00	Reception	○	Restaurant Couleur
	20:10	Bus departure to the hotel		Hotel Crest Ibaraki
2-Nov	9:00	Bus departure from the hotel	○	Hotel Crest Ibaraki
	10:00-12:00	Company tour "Daikin"		
		Lunch	○	
	14:00-16:00	City tour		
	18:00-19:00	Dinner: Japanese local food	○	
	19:00	Bus departure to the hotel		Hotel Crest Ibaraki
3-Nov		Departure	○	Hotel Crest Ibaraki