



東京理科大学

Global COE Program, Tokyo University of Science

**Kick-off Seminar for  
Establishment of the "FORUM for  
Advanced Fire Education/Research in Asia"**

Center for Fire Science and Technology,  
Research Institute for Science and Technology



Tokyo University of Science  
**Global COE Program**

## Message

The Tokyo University of Science (TUS) celebrated its 130th anniversary in 2011. Since the time of its foundation, science and technology have undergone changes beyond any imagination. In the 21st century, global issues, such as the environment, associated with both energy resources and climate change, require the progress of science and technology in harmony with Nature, which is the University's founding principle. This is even more important today. Scientists and engineers at TUS are making efforts to contribute to resolve issues of societal importance, with a strong sense of ethics as human beings, or "Conscience", as a basic principle.

I am very pleased that we can now announce the establishment of the "FORUM for Advanced Fire Education/Research in Asia" to Society through this Kick-off Seminar today as the culmination of the collected studies, achievements and results of many research projects carried out over the past five years since the adoption of the "Center for Education and Research on Advanced Fire Safety Science and Technology in East Asia" by MEXT (Ministry of Education, Culture, Sports, Science and Technology) as a "Global COE Program" in FY 2008.

We are keenly aware of the contemporary significance and relevance of the founding spirit of our University to contribute to the development of science and technology in due deference to harmony with both Humanity and Nature and mindful of the various problems affecting Society. In that belief, we intend to continue to endeavor to fulfill our social mission to the maximum extent possible as a University, which is a higher education institution and at the same time a research and development institution.



President, Tokyo University of Science  
**Akira Fujishima, professor**

## Opening Address

Welcome to Japan, and TUS fire community. It is our great honor to be able to invite you of various organizations and countries. TUS Global COE Program was adopted by MEXT in FY 2008, following the 21st century COE program "Center of Advanced Fire Safety Science and Technology for Building" (FY 2003-2007). Through these activities, several major outcomes have been attained by establishing theories on performance-based fire safety design and its verification methodology in practical fields, acting as host of symposia or seminars on recent fire education and research in Asian countries, constructing a large scale experimental laboratory equipped with multipurpose huge fire furnace and fire material or equipment testing apparatus which plays an important role in joint usage and research between organizations, and the establishment of Graduate School of Global Fire Science and Technology in TUS. During our activities on the G-COE program, most Asian countries have been in extreme development with increasing high rise or underground multi-occupied complexes accompanied by the usage of modern new materials and/or components represented by various plastic cored panels. In these situations, we would like to propose the establishment of "FORUM for Advanced Fire Education/Research in Asia" toward organizing contributive cooperation in the development of effective education systems for fire safety engineering in Asia, expected to discuss at this Kick-off Seminar.



Project Leader, Global COE Program  
**Shin'ichi Sugahara, professor**

*We propose to establish "FORUM for Advanced Fire Education/Research in Asia" toward establishing organized cooperation contributing to develop effective education systems for fire safety engineering in Asia.*

**1<sup>st</sup> day**

December 27, 2012

# SEMINAR PROGRAM

**2<sup>nd</sup> day**

December 28, 2012

## Opening Address

Chair: Ken Matsuyama (TUS)

10:00-10:05	<b>Opening Address</b>	Shin'ichi Sugahara G-COE Project Leader, Professor, Tokyo University of Science
-------------	------------------------	--

10:05-10:10	<b>Address by President of TUS</b>	Akira Fujishima President, Professor, Tokyo University of Science
-------------	------------------------------------	--

## Part 1

### Session 1 : Common consciousness of fire statistics in Asia.

Chair: Yukio Yamauchi (TUS)

10:10-10:40	<b>Necessity of Fire Statistics and Analysis Using Fire Incident Database -Japanese Case</b>	Ai Sekizawa Professor, Tokyo University of Science
-------------	--	---

10:40-11:10	<b>The Challenges of Getting a National Fire Statistic System in Brazil</b>	Rosaria Ono Professor, University of Sao Paulo, Brazil
-------------	---	---

11:10-11:40	<b>Fire Risk Analysis using Event Trees Generated by Agent Based Modeling</b>	Michael A. Delichatsios Professor, University of Ulster, UK
-------------	---	--

11:40-12:10	<b>Experimental study towards the construction of fire prevention regulation for gas station in China</b>	Hong Huang Professor, Tsing Hua University, China
-------------	---	--

12:10-12:40	<b>Trend and Challenges of Fire Safety in Indonesia</b>	Ir. Suprpto Professor, Indonesian Fire Protection Association, Indonesia
-------------	---	---

## — Lunch —

### Session 2 : Common consciousness of building fire codes/standards in Asia. Introduction of characteristic fires in Asian country.

Chair: Yukio Nishida (TUS)

13:40-14:10	<b>Some Concerns for Fire Protection Regulations in Asia and Japanese Way</b>	Kyoichi Kobayashi Professor, Tokyo University of Science
-------------	---	---

14:10-14:40	<b>Harmonization with the Rigid Law Enforcement System through the Fire Safety Research, Taiwan's Experience</b>	Shen-Wen Chien Professor, Central Police University, Taiwan
-------------	--	--

14:40-15:10	<b>Fire Safety for High-rise Building at Big Cities in Vietnam</b>	Doan Minh Khoi, Pham Thuy Loan Professors, National University of Civil Engineering, Vietnam
-------------	--	---

## — Coffee Break —

Chair: Masaru Tanaka (TUS)

15:30-16:00	<b>Building Better Fire Codes in Asia. -Learning from Precedents without Being Bound to Them-</b>	Geoff Thomas Professor, Victoria University of Wellington, New Zealand
-------------	---	---

16:00-16:30	<b>Characteristics of Fire Incidents in Asian Countries Particularly in Bangladesh</b>	Abu Nayeem Md. Shahidullah Director General, Fire Service & Civil Defense, Bangladesh
-------------	--	--

16:30-17:00	<b>Analysis on the State of Arts and Education Curriculum for Fire Safety Policy in Korea</b>	Young-Jin Kwon Professor, Hoseo University, Korea
-------------	---	--

17:30-19:30	<b>Welcome Reception</b>
-------------	--------------------------

### Session 3 : What is expected for education related to Building Fire Safety in Asia? What is expected for the FORUM?

Chair: Ken'ichi Ikeda (TUS)

9:30-10:00	<b>Education of Graduate School of Global Fire Science and Technology, Tokyo University of Science</b>	Yoshifumi Ohmiya Professor, Tokyo University of Science
------------	--	--

10:00-10:30	<b>The Need for Fire Engineering Education in Hong Kong</b>	Wan-Ki Chow Professor, Hong Kong Polytechnic University, Hong Kong
-------------	---	---

10:30-11:00	<b>Overview of Human Resource Demand and the Education System in the Field of Fire Service and Engineering in Korea</b>	Myong-O Yoon Professor, University of Seoul, Korea
-------------	---	---

## — Coffee Break —

## Part 2

### FORUM Rally

11:15-11:20	<b>Explanation about Main Purpose of the Establishment of "FORUM"</b>	Makoto Tsujimoto (TUS)
-------------	---	------------------------

11:20-12:20	<b>Panel Discussion</b> -Moderator: A. Sekizawa -Panelists: S. Sugahara, K. Kobayashi, Y. Ohmiya, W. Chow, M. Yoon, Y. Kwon, A. Shahidullah, M. Mamun, S. Chien, D. Khoi, P. Loan, D. Kiem, N. Phong, R. Ono, S. Koo, G. Thomas, H. Huang, M. Delichatsios, I. Suprpto
-------------	--

## Closing Address

12:20-12:30	<b>Closing Address</b>	Masahiro Morita G-COE Project sub-Leader, Professor, Tokyo University of Science
-------------	------------------------	---



## Purpose of the establishment of "FORUM" and the Kick-off Seminar;

In recent years, emergence of new spatial configurations and use of new materials are apparent in Asian countries. These are inevitable changes brought about by modernization, industrialization and increased need of energy conservation. However, potential fire risks may be increasing with increased number of high-rise buildings and underground facilities. In response to this drastic modernization in Asian countries, fire risks need to be assessed in major cities, working together with researchers of each region, and utilizing research network and specific education systems to be developed in order to establish effective measures for mitigating such risks. To face such issues, highly competent people specialized in the fire protection engineering must be developed. Therefore, we propose to establish "FORUM for Advanced Fire Education/Research in Asia" toward establishing organized cooperation contributing to develop effective education systems for fire safety engineering in Asia. Since there are a number of similarities in terms of cultural aspects in Asian countries, there must be a number of comparable contents regarding problems and solutions in fire safety issues.

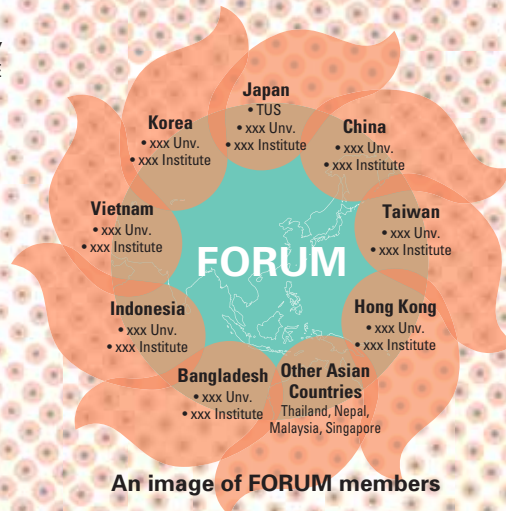
Center for Fire Science and Technology, Tokyo University of Science (TUS) is sending out this invitation to honored delegates to the Kick-off Seminar for establishing this "FORUM for Advanced Fire Education/Research in Asia", where common problems in Asian countries is presented and future activities will be discussed.

## Concepts of FORUM and its activities

- Establish permanent and constructive human resource development systems through cooperation and information exchange among universities, institutes and organizations providing education and research in Fire Safety Engineering.
- Cooperation with equal responsibilities and opportunities.
- Open to as many universities, institutes and organizations as possible, especially universities conducting research and education; not restricting to one organization per country.
- Each member takes turns in organizing meetings, that will be held periodically, e.g. every two years, in order to conduct conferences and seminars on topical themes.
- Publish newsletters for sharing various information on the internet, and exchange information and opinions utilizing mailing lists.
- Provide support to exchange and visiting between organizations or individuals who become known to each other via electric communications.

## Expected members of the FORUM

- Initial members of this FORUM will be set up by agreed organizations contacted through G-COE activities organized by TUS.



An image of FORUM members

## Venue

### Agnes Hall

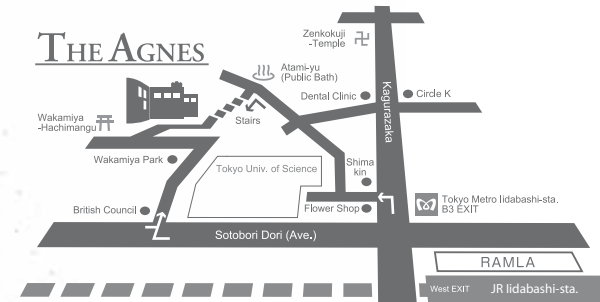
#### The Agnes Hotel and Apartments Tokyo

2-20-1 Kagurazaka, Shinjuku-ku, Tokyo 162-0825

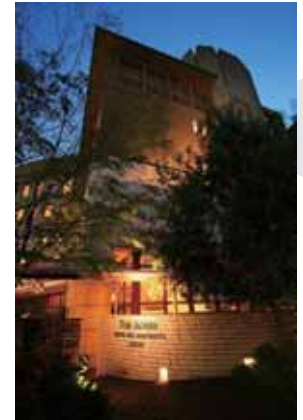
TEL: +81-3-3267-5505

<http://www.agneshotel.com/access.html>

Nearby station: Iidabashi (JR Line Exit West/Subway Exit B-3)



5-minute walk from the B3 Exit Tokyo Metro Iidabashi and West Exit of JR Iidabashi Stations



### Net News on Fire in East Asia

We collect articles on fire of 15 countries in East Asia via online news sites and post them on our website.

The accumulated news is useful to understand different trends of fire in East Asian countries. To search and read articles, visit the following website.



[http://gcoe.moritalab.com/asian\\_fire/](http://gcoe.moritalab.com/asian_fire/)

In cooperation with  
Department of Fire Science and Technology,  
Graduate School of Global Fire Science and Technology

Center for Fire Science and Technology,  
Research Institute for Science and Technology  
TOKYO UNIVERSITY OF SCIENCE

2641, Yamazaki, Noda, Chiba 278-8510 JAPAN  
Tel: +81-4-7124-1501 ext. 5036 Fax: +81-4-7123-9763