

# The Second CMI Symposium



Hosted by: Collaborative Research Center for Manufacturing Innovation,  
Institute of Industrial Science(IIS), The University of Tokyo  
Consortium for Manufacturing Innovation (CMI\*)

## New Trends in Cutting Technology

Aiming for a rapid progress of manufacturing technology that supports the base of aircraft industry, in which major development is expected hereafter, a project through industry-university-government cooperation has launched last year. In addition to four CMI start-up members, five companies joined in last October and four companies newly joined in this April. In total, 13 companies work on CMI activities with IIS, The University of Tokyo.

Research objects of CMI are technological developments for rapid and high value-added manufacturing, environmentally conscious manufacturing and manufacturing with the minimum natural resources and less amount of rare metals related to aircraft manufacturing, but we are aiming for a rapid progress by enhancing the skill of manufacturing technology into manufacturing science. Applicable products are not limited to aircrafts and as a successful example of project through industry-university-government cooperation, we are also expecting to expand it into other industrial fields in the future. In this symposium, speakers will talk about CMI activities, researches and also the latest trends in cutting technology from guest speakers that are active in various fields.

### Time and Date :

October 17, 2014 (Friday) 13:00-17:00  
(The hall will open at 12:30)

Venue: Convention Hall

An Block, Second Floor, IIS

Komaba II Campus, the University of Tokyo

※Odakyu Line/Tokyo Metro-Chiyoda Line  
7-min walk from

Higashi-kitazawa Station

12-min walk from Yoyogi Uehara Station

※Keio Inokashira Line

10-min walk from

Komaba Todaimae Station

Conference Fee : Free of Charge

Informal Meeting : 4,000 yen

**Registration (Starting from July 25)**

Please register from this webpage  
written below.

<http://www.cmi.iis.u-tokyo.ac.jp/>

250 people available

(first-come-first-served basis)

(We will stop accepting registration as  
soon as we reach the capacity. )

※Registration in advance is necessary.

Contact : IIS, The University of Tokyo

[cmi-ml@iis.u-tokyo.ac.jp](mailto:cmi-ml@iis.u-tokyo.ac.jp)

Obikawa Lab.

Ms. Haruna (03-5452-6771)

Hashimoto Lab.

Ms. Uchimiya (03-5452-6778)

### [CMI members]

IIS, The University of Tokyo, The Boeing Company,  
Mitsubishi Heavy Industries, LTD, Kawasaki Heavy  
Industries, Ltd, Fuji Heavy Industries LTD., DMG  
Mori Seiki CO., LTD., OSG CORPORATION,  
SUMITOMO ELECTRIC HARDMETAL CORP.,  
MITSUBISHI MATERIALS CORPORATION, Toray  
Industries, Inc., Idemitsu Kosan Co., Ltd. Kobe  
Steel, Ltd., The SHODA Company, NACHI-  
FUJIKOSHI CORP.

### Program

13:00-13:10 Opening Speech

※Contents may be partially modified.

Dr. Yoshiaki NAKANO, Professor, Director General, IIS, The University of Tokyo

13:10-13:30 "The Activities of CMI"

Dr. Akira HASHIMOTO, Project Professor, IIS, The University of Tokyo

13:30-14:10 "Researches in CMI"

Dr. Toshiyuki OBIKAWA, Professor, IIS, The University of Tokyo

14:10-14:50 "Basic Strategies for Cutting Difficult-to-Cut Materials and

Trends for New Technology"

Mr. Katsuyoshi KARINO, Former Cutting Technology Consultant for Tsukuba

Plant of Mitsubishi Materials, Part-time Professor at Advanced Polytechnic Center

14:50-15:10 (Coffee Break)

15:10-15:40 "Recent Topics of Machine Tools and Its Milling

Technologies Applied To Aircraft Alloy"

Mr. Tetsuro SHIBUKAWA, Adviser, MITSUI SEIKI KOGYO CO., LTD

15:40-16:10 "High Feed Cutting Technique Using Ultra-High Pressure

Coolant"

Mr. Chikara MORIGO, President, TOKUPI SEISAKUSYO Co. Ltd.

16:10-16:50 "Turning of Difficult-to-Machine Materials with Active Driven

Rotary Tool"

Dr. Takashi UEDA, Designated Professor, Graduate School of

Engineering, Nagoya University

16:50-17:00 Closing Remark

Dr. Toshiyuki OBIKAWA, Professor, IIS, The University of Tokyo

17:30-19:00 Informal Meeting

Capo PELLICANO (First floor below the Convention Hall)