

## Report for JSPS Asian Science/Academic Seminar FY2012 <Summary>

Date 2013.01.25

1. Title of Seminar JSPS- DST Asian Academic Seminar: Manufacturing, Design and Innovation

2. Purpose of Seminar

The theme of this seminar is “Manufacturing, Design and Innovation”. The purpose of this seminar is providing lectures of the latest academic researches to young researchers. The topics of the lectures were selected from the various academic fields, design, manufacturing system, fabrication process, metrology, and nano-micro fabrication processes. Through these lectures and discussions, the young researchers are expected to acquire intensive skills and multiple friendships in Asian countries.

3. Period

From 2012.12.03 through 2012.12.08 (6 days)

4. Venue

Indian Institute of Technology, Bombay, Mumbai, India

5. Organization

(1) Cosponsors

Japan Side	Japan Society for the Promotion of Science (JSPS)
	The University of Tokyo (UT)
Side	Department of Science and Technology, Government of India (DST)
	Indian Institute of Technology (IIT)

(2) Organizer

1) Japan side

Name in full Mamoru Mitsuishi  
Affiliation and position Professor, The University of Tokyo  
The University of Tokyo, Hongo 7-3-1, Bunkyo-ku, Tokyo, Japan, Postal code 113-8656

Name in full Yasuyuki Yokono  
Affiliation and position Project Professor, The University of Tokyo  
The University of Tokyo, Hongo 7-3-1, Bunkyo-ku, Tokyo, Japan, Postal code 113-8656

2) India side

Name in full Sanjay G. Dhande  
Affiliation and position Professor, Indian Institute of Technology, Kanpur  
Indian Institute of Technology Kanpur, Kanpur-208 016, India, Postal code 208016

6. Program: Agenda, topics, related activities (e.g., reception, excursion)

	Dec. 3	Dec. 4	Dec. 5	Dec. 6	Dec. 7	Dec. 8
9:00		National University of Singapore, Assoc. Prof. Ong (CAD, CAM, AR) fixed	University of Tokyo, Prof. Mitsuishi	University of Tokyo Assoc. Prof. Takahashi (Metrology) fixed	University of Tokyo Assoc. Prof. Warisawa (Nano-Micro) tentative	Japanese Industrial tour
9:15						
9:30						
9:45						
10:00		CMERI Prof. Gautam Biswas (Robotics)	ARCI Dr. Dhathathreyan	TIT Assoc. Prof. Yoshioka (Fabrication) tentative	IIT Bombay Prof.K.P.Karunakaran	
10:15						
10:30						
10:45						
11:00	Registration	Break	Break	Break	Break	
11:15	Inauguration	National University of Singapore, Prof. Nee (Sustainable Manufacturing) fixed	University of Tokyo Dr. Kometani (Nano-Micro) fixed	IIT Kanpur Dr. Shantanu Bhattacharya (MEMS)	IISc Bangalore Prof. Gurumoorthy (Design)	
11:30						
11:45						
12:00						
12:15	Lunch & Break	Lunch & Break	Lunch & Break	Lunch & Break	Lunch & Break	
12:30						
12:45						
13:00						
13:15	Keio University Prof. Aoyama (Design)	IIT Kanpur Prof. S. G. Dhande / Prof. V. N.Reddy	Industrial visit	IIT/NITIE lab visit	Group activity (discussion)	
13:30						
13:45		IIT Bombay Prof. Suhas S. Joshi				
14:00						
14:15	ARCI Dr.Shrikant Joshi	Tea Break	Tea Break	Tea Break	Tea Break	
14:30						
14:45						
15:00						
15:15	Tea Break	Group activity (discussion)	Industrial visit	IIT/NITIE lab visit	Closing	
15:30						
15:45						
16:00						
16:15	Poster Presentation	Group activity (discussion)	Industrial visit	IIT/NITIE lab visit	Closing	
16:30						
16:45						
17:00						
17:15	Break	Break	Break	Break	Break	
17:30						
17:45						
18:00						
18:15	Dinner	Dinner	Dinner	Dinner	Dinner	
18:30						
18:45						
19:00						
19:15	Dinner	Dinner	Dinner	Dinner	Dinner	
19:30						

## 7. Lecturers and Participants

### 1) Number of Persons

	Lecturers	Participants	Total
Japan side	8	12	20
(Number who participated under program funding)	8	12	20
India side	11	24	35
(Number who participated under program funding)	0	0	0
Other persons	2	3	5
(Number who participated under program funding)	2	3	5
<b>Total</b>	<b>21</b>	<b>39</b>	<b>60</b>
(Number who participated under program funding)	10	15	25

### 2) List

#### A: Lecturers

Name in full	Position /Affiliation/ Institution(Country of affiliated institution)	Remarks
-Japan side	Hideki Aoyama, Professor, Keio University, Japan Satoru Takahashi, Associate Professor, The University of Tokyo, Japan Reo Kometani, Lecturer, The University of Tokyo, Japan Hayato Yoshioka, Associate Professor, Tokyo Institute of Technology, Japan Shin'ichi Warisawa, Associate Professor, The University of Tokyo, Japan Mamoru Mitsuishi, Professor, The University of Tokyo, Japan Yasuyuki Yokono, Project Professor, The University of Tokyo, Japan Etsuo Maeda, Project Researcher, The University of Tokyo, Japan	* * * * * * * *
- India side	Shrikant Joshi, Dr. Associate Director, International Advanced Research Center for Powder Metallurgy and New Material, India Gautam Biswas, Professor, Central Mechanical Engineering Research Institute, India Sanjay G. Dhande, Professor, Indian Institute of Technology, Kanpur, India Shuas S. Joshi, Professor, Indian Institute of Technology, Bombay, India N. Venkata Reddy, Professor, Indian Institute of Technology, Hyderabad, India K. S. Dhathathreyan, Professor, International Advanced Research Center for Powder Metallurgy and New Material, India Shantanu Bhattacharya, Associate Professor, Indian Institute of Technology, Kanpur, India K. P. Karunakaran, Professor, Indian Institute of Technology, Bombay, India B. Gurumoorthy, Professor, Indian Institute of Science, Bangalore, India Urjit A. Yajnik, Professor, Dean, Indian Institute of Technology, Bombay, India Ranjan Kumar Malik, Professor, Deputy Director, Indian Institute of Technology, Bombay, India	
-Other Persons	Patricia Soh-Khim Ong, Associate Professor, National University of Singapore, Singapore Andrew Yeh Ching Nee, Professor, National University of Singapore, Singapore	* *

Place a check [ \* ] in the Remark Column for those who participated using JSPS's seminar funding.

B: Participants

Name in full	Position /Affiliation/ Institution(Country of affiliated institution)	Remarks
-Japan side	Ikjoo Byun, PhD candidate, The University of Tokyo, Japan Jianbo Sui, PhD candidate, The University of Tokyo, Japan Manabu, Nishino, PhD candidate, Tokyo Metropolitan University, Japan Yi Meng, PhD candidate, The University of Tokyo, Japan Thu Hac Huong Le, PhD candidate, The University of Tokyo, Japan Norfariza Binti Ab. Wahab, PhD candidate, Tokyo University of Agriculture and Technology, Japan Hyngwon Park, PhD candidate, The University of Tokyo, Japan Ahmed Fouad Mohamed Said Hauron, PhD candidate, The University of Tokyo, Japan Zhequn Huang, PhD candidate, The University of Tokyo, Japan Katsuyoshi Ikeuchi, PhD candidate, The University of Tokyo, Japan Akio Hayashi, PhD candidate, Kobe University, Japan	* * * * * * * * * * *
- India side	A. Giridharan, PhD candidate, Indian Institute of Technology Madras, India Manohar Kakunuri, PhD candidate, Indian Institute of Technology Hyderabad, India Dhanvijay Maneetkumar, PhD candidate, Indian Institute of Technology Pune, India Selvakumar A., PhD candidate, Indian Institute of Technology Coimbatore, India Gupta Ankur, PhD candidate, Indian Institute of Technology Kanpur, India Nadeem Syed, PhD candidate, Indian Institute of Technology Kanpur, India D'souza Maxwel, PhD candidate, Indian Institute of Technology Bombay, India Banerjee Nilanjan, PhD candidate, Indian Institute of Technology Hyderabad, India Bajpai Vivek, PhD candidate, Indian Institute of Technology Kanpur, India Kant Ravi, PhD candidate, Indian Institute of Technology Guwahati, India K Shome Saikat, Central Mechanical Engineering Research Institute Durgapur, India Legesse Fisseha, PhD candidate, Indian Institute of Technology Bombay, India Lingam Rakesh, PhD candidate, Indian Institute of Technology Hyderabad, India Mandal Soumen, Central Mechanical Engineering Research Institute Durgapur, India Karade Vikas, PhD candidate, Indian Institute of Technology Bombay, India Choudhari C. M. VJTI Mumbai, India Kakunur Manohar, PhD candidate, Indian Institute of Technology Bombay, India A. Selcakumar, PhD candidate, Indian Institute of Technology Bombay, India Shajkh Javed Habib, PhD candidate, Indian Institute of Technology Indore, India Vinay Kumar Patel, PhD candidate, Indian Institute of Technology Kanpur, India H. S. Grewall, PhD candidate, Indian Institute of Technology Ropar, India Shitanshu S. Chakraborty, PhD candidate, Indian Institute of Technology Kanpur, India A. Abijit, PhD candidate, Indian Institute of Technology Kanpur, India	
-Other Persons	Shijun Yan, PhD candidate National University of Singapore, Singapore Lai Xing Ng, PhD candidate National University of Singapore, Singapore Wai Wen Andrew Yew, PhD candidate National University of Singapore, Singapore	* * *

Place a check [ \* ] in the Remark Column for those who participated using JSPS's seminar funding.

8. Please describe the achievements of the seminar.

(1) The enhancement of academic fields in the manufacturing sciences

The theme of this seminar is “Manufacturing, Design and Innovation”. Recent progresses in the manufacturing sciences from the Asian countries are expected to realize sustainable and safe development around the world. Through the lectures on the unique and remarkable technologies in this region, many young researchers can be expected to make innovative progresses in their various research fields. Feedback from the participants suggested they appreciated being exposed to topics beyond the domain of their research, particularly applied or real-world examples.

(2) The encouragement of young researchers in Asian countries

Through this seminar, unique and remarkable lectures are provided to young researchers. Additionally, the interchanges of young researchers between different countries are provided through a poster session and discussion. The seminar also allowed the attendees to meet and connect with other young researchers in the region. The exchanges and interaction between young Asian researchers are expected to bolster innovations in the fields of manufacturing science for the next generation.



DST-JSPS  
Asia Academic Seminar 2012  
IIT-B, Mumbai, India  
Dec 3 - 8, 2012

ज्ञानम् परमम् ध्येयम्

Knowledge is Supreme Purpose  
知識を得ることは最高の目的だ



Photographer: Tuo Zhou

