“The Development of Manufacturing Technology for 21st Century”

Introduction of Lecturers and Panelists

Project Leader
Prof. Dr. Takashi Nakamura
Graduate School of Engineering, Nagoya Institute of Technology, Japan

Organizer
Prof. Dr. Nobutaka Odake
Department of Techno-business Administration, Graduate School of Engineering, Nagoya Institute of Technology, Japan

13:15～14:35
“Large scale Manufacturing of structural thermoplastic composites components”
Prof. Dr.-Ing. Frank Henning
Deputy Director Fraunhofer ICT, Germany

“Dissimilar materials joining – Problems and Solutions”
Mr. Jonathan Martin
Section Manager
Friction and Forge Processes Department TWI, United Kingdom

Theme of Group 1
15:35～17:35
“Challenge to further expanded application of composites in Japan”

“Characteristics and Future Development of Carbon Fiber Reinforced Polymer Composites”
Mr. Toshihide Sekido
Former General Manager
Advanced Composites Center Automotive & Aircraft Center Toray Industries, Inc., Japan

“Presentation of Research”
Prof. Dr. Hirohito Hira
Department of Integrated Mechanical Engineering, School of Engineering, Daido University, Japan

Panelists of Panel Discussion

Session Chair
Prof. Dr. Masahiro Fukumoto
Department of Mechanical Engineering, Graduate School of Engineering, Toyoohashi University of Technology, Japan

[Shown above]
• Prof. Dr.-Ing. Frank Henning, Germany
• Mr. Toshihide Sekido, Japan
• Prof. Dr. Hirohito Hira, Japan

Dr. Satoshi Kitaoka
Group Leader
Chief Researcher
Materials Research and Development Laboratory, Japan Fine Ceramics Center, Japan

Dr. Yuji Hotta
Group Leader
National Institute of Advanced Industrial Science and Technology, Japan
**Theme of Group 2**
15:35~17:35

“Innovation of Key Manufacturing Technology for difficult-to-machine materials”

“Collaboration among industry, academia and government towards the manufacturing innovation”

Prof. Dr. Toshiyuki Obikawa  
Department of Mechanical and Biofunctional Systems, Institute of Industrial Science, The University of Tokyo, Japan

“Cutting technology for difficult-to-machine materials”

Designated Prof. Dr. Takashi Ueda  
Department of Mechanical Science and Engineering, Graduate School of Engineering, Nagoya University, Japan

“Presentation of Research”

Dr. Akihiro Matsumoto  
Group Leader  
National Institute of Advanced Industrial Science and Technology, Japan

**Panelists of Panel Discussion**

Session Chair  
Dr. Akihiro Matsumoto, Japan  
[Shown above]  
• Prof. Dr. Toshiyuki Obikawa, Japan  
• Prof. Dr. Takashi Ueda, Japan  
• Prof. Dr. Takashi Nakamura, Japan (Project Leader)

Prof. Dr. Fumihiro Itoigawa  
Department of Materials Science Engineering, Graduate School of Engineering, Nagoya Institute of Technology, Japan

Prof. Dr. Norikazu Suzuki  
Department of Materials Science Engineering, Graduate School of Engineering, Nagoya University, Japan

**Theme of Group 3**
15:35~17:35

“Forefront of Weight Reduction Technology and Issue of Practical Application for Metallic Materials”

“New development of structural materials for saving fuel or energy”

Prof. Dr. Hideaki Matsubara  
Graduate School of Environmental Studies, Tohoku University, Japan

“Presentation of Research”

Prof. Dr. Takashi Ishikawa  
Department of Materials Science Engineering, Graduate School of Engineering, Nagoya University, Japan

“Presentation of Research”

Prof. Dr. Toshiaki Yasui  
Department of Mechanical Engineering, Graduate School of Engineering, Toyohashi University of Technology, Japan

**Panelists of Panel Discussion**

Session Chair  
Prof. Dr. Masazumi Okido  
EcoTopia Science Institute, Nagoya University, Japan  
[Shown above]  
• Mr. Jonathan Martin, United Kingdom  
• Prof. Dr. Hideaki Matsubara, Japan  
• Prof. Dr. Takashi Ishikawa, Japan  
• Prof. Dr. Toshiaki Yasui, Japan

Dr. Kenji Miwa  
Senior Researcher  
Aichi Science & Technology Foundation, Japan