



INTERNATIONAL SYMPOSIUM ON ADVANCED LASER MEASUREMENT TECHNOLOGY

徳島大学
TOKUSHIMA UNIVERSITY

ISALMT2018



西安交通大学

International Symposium
on Advanced Laser Measurement Technology
ISALMT2018
Report

Sponsored by
Tokushima University

Co-Sponsored by
Xi'an Jiaotong University

Supported by
The Iron and Steel Institute of Japan
Division of Process Evaluation and Material
Characterization
The Japan Society of Mechanical Engineers, Japan
The Japan Society of Mechanical Engineers
Chugoku-Shikoku Branch
The Heat Transfer Society of Japan, Japan
Japanese LIBS Society, Japan
The Laser Society of Japan, Japan
The Society of Powder Technology, Japan, "Workshop on
Modeling of High Temperature Reaction on Particle
Surface"

March 10th, 2018

Venue : Tokushima University



徳島大学
TOKUSHIMA UNIVERSITY

INTERNATIONAL SYMPOSIUM ON ADVANCED LASER MEASUREMENT TECHNOLOGY

ISALMT2018



西安交通大学

Message from the Chairman



Tokushima University (Research Cluster on Advanced Laser Measurement Technology for Industrial Applications) and Xi'an Jiaotong University (School of Energy and Power Engineering) is planning to establish the Collaboration Laboratory "Laboratory on Advanced Laser Measurement Technology for Industrial Applications" in Xi'an Jiaotong University on November 2017. For the purpose of industrial innovation by advanced measurement technology based on this Collaboration Laboratory, International Symposium on Advanced Laser Measurement Technology : ISALMT2018 is held in Tokushima(Japan) by both Universities on March 10th, 2018. The scope of this symposium covers a various range of industrial applications which include, but are not limited to the following topics:

Measurement Technology on Temperature, Concentration, and Velocity

Measurement Technology on Distance and other Physical Parameters

Advanced Methodology on Laser Diagnostics (TDLAS, LIBS, LIF, etc.)

Optical Engineering and Imaging Sensing Techniques

Lasers, Detectors, and Optics

Other Technology related to Measurement Technology

Combustion, Chemical Reaction, Environment, Transport Phenomena of Pollutants

Computational Fluid Dynamics, Nonlinear Phenomena

On behalf of the ISALMT2018 committee, we warmly invite you, scientists, engineers or technicians, students to take part in this symposium.

We are looking forward to seeing you in Tokushima!

ISALMT2018 Chairman

Yoshihiro Deguchi

Tokushima University

**March 10th Timetable**

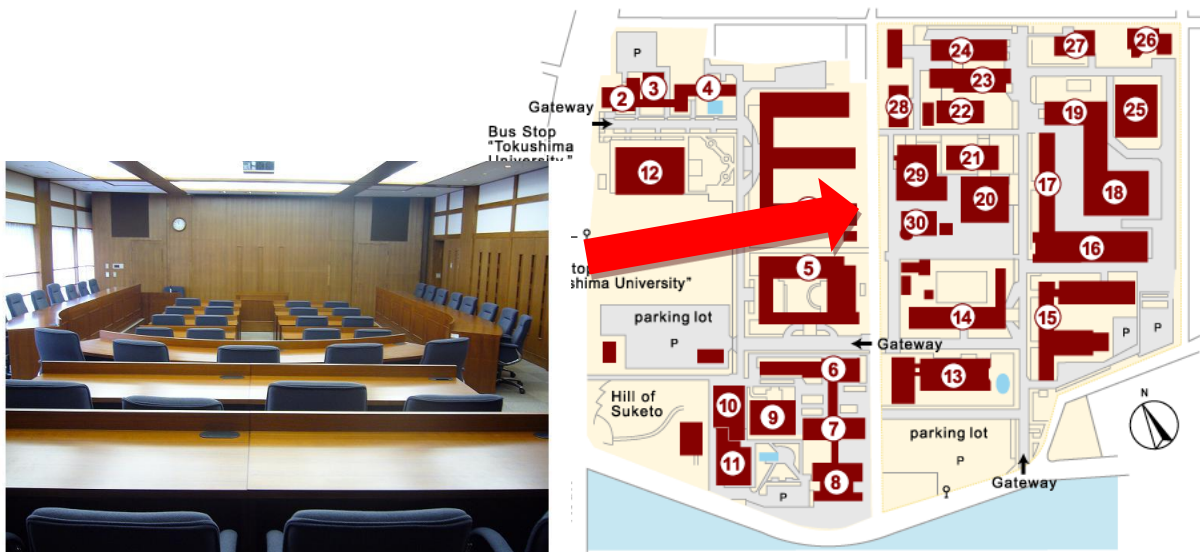
Time	Program
9:00-9:25	Opening Prof. Yoshihiro Deguchi Prof. Junjie Yan Brief introduction of Xi'an Jiaotong University and School of Energy and Power Engineering
9:25-10:40	Session A Chairperson: Prof Yoshihiro Deguchi Invited Speech I01 Nishida Yoshiki Invited Speech I02 Jiazhong Zhang Invited Speech I03 Chen-Chia Chou
10:40-10:55	Coffee
10:55-12:10	Session B Chairperson: Prof. Yoshiyuki Kidoguchi Invited Speech I04 Min Zeng Invited Speech I05 Masato Tamura Invited Speech I06 Katsuo Morita
12:10-14:30	Lunch Future Center Photo, Poster session, Lab. tour
14:30-16:10	Session C Chairperson: Prof. Jiazhong Zhang Invited Speech I07 Yoshiyuki Kidoguchi Invited Speech I08 Fang-Jung Shiou Invited Speech I09 Kazuki Tainaka Invited Speech I10 Zhenzhen Wang
16:10-16:25	Coffee
16:25-17:40	Session D Chairperson: Prof. Min Zeng Invited Speech I11 Dan Zhang Invited Speech I12 Takahiro Kamimoto Invited Speech I13 Yan Zhou
17:40-17:50	Closing Prof. Jiping Liu



Venue : Tokushima University

Opening, Session A-D, Closing

29. Building Incubation Facilities & Center for Research Administration & Collaboration
3F Nichia Hall



Lunch, Photo, Poster session, Board Meeting

10. Regional and international Exchange Hall (Glocal Communication Hall)
5F Future Center





Oral Presentation

Presentation time ...Invited : 25 min.

Session A

9:25-9:50

Invited Speech: I01 Nishida Yoshiki
NTT Electronics Corporation
"Development of rapid scan lasers for combustion analysis"

9:50-10:15

Invited Speech: I02 Jiazhong Zhang
Xi'an Jiaotong University
"Studying Pattern Dynamics in Combustion Using Lagrangian Coherent Structures"

10:15-10:40

Invited Speech: I03 Chen-Chia Chou
National Taiwan University of Science and Technology
"Correlation of plasma generation and microstructural development of oxide coatings on magnesium alloy using plasma electrolytic oxidation technique"

Session B

10:55-11:20

Invited Speech: I04 Min Zeng
Xi'an Jiaotong University
"Investigation on the effect of the magnetic force on the melt pool evolution and surface shrink using a developed model"

11:20-11:45

Invited Speech: I05 Masato Tamura
IHI Corporation
"Technology Development for Clean Thermal Power Plant"

11:45-12:10

Invited Speech: I06 Katsuo Morita
Tokyo Instruments
"Introduction of Advanced Measurement Systems"

Session C

14:30-14:55

Invited Speech: I07 Yoshiyuki Kidoguchi
Tokushima University
"Observation technology of diesel spray development process"



14:55-15:20

Invited Speech: I08 Fang-Jung Shiou

National Taiwan University of Science and Technology

“Development of an In-situ 3D Profile Measurement System for the Heated Slags”

15:20-15:45

Invited Speech: I09 Kazuki Tainaka

Central Research Institute of Electric Power Industry

“Soot Measurements with Lase in Pulverized Coal Combustion Fields”

15:45-16:10

Invited Speech: I10 Zhenzhen Wang

Xi'an Jiaotong University

“Research on Influence Factors for Trace Heavy Metal Measurement in Gas Phase using LIBS”

Session D

16:25-16:50

Invited Speech: I11 Dan Zhang

Xi'an Jiaotong University

“Measurement of temperature field by Quantum Dots”

16:50-17:15

Invited Speech: I12 Takahiro Kamimoto

Tokushima University

“Accuracy evaluation of 2D temperature and concentration measurement in multi-jet burners using CT-TDLAS”

17:15-17:40

Invited Speech: I13 Yan Zhou

Xi'an Jiaotong University

“Quantitative Analysis of the Compound with Weak Spectral Signals”



INTERNATIONAL SYMPOSIUM ON ADVANCED LASER MEASUREMENT TECHNOLOGY



ISALMT2018



Participants : 39 Researchers

Pictures



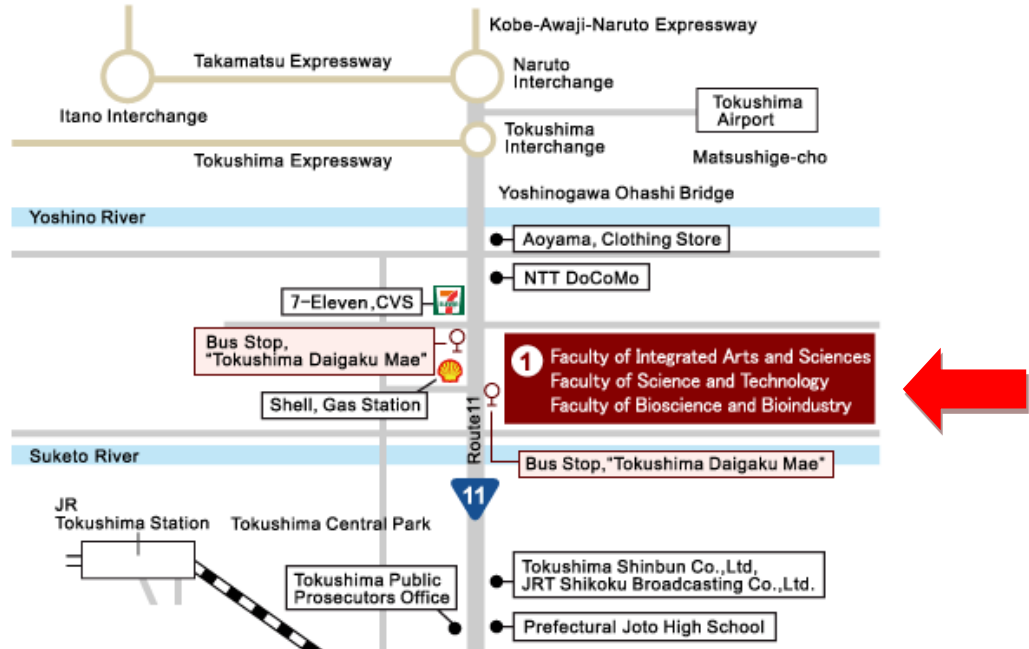


Access to Tokushima University (Josanjima Campus)



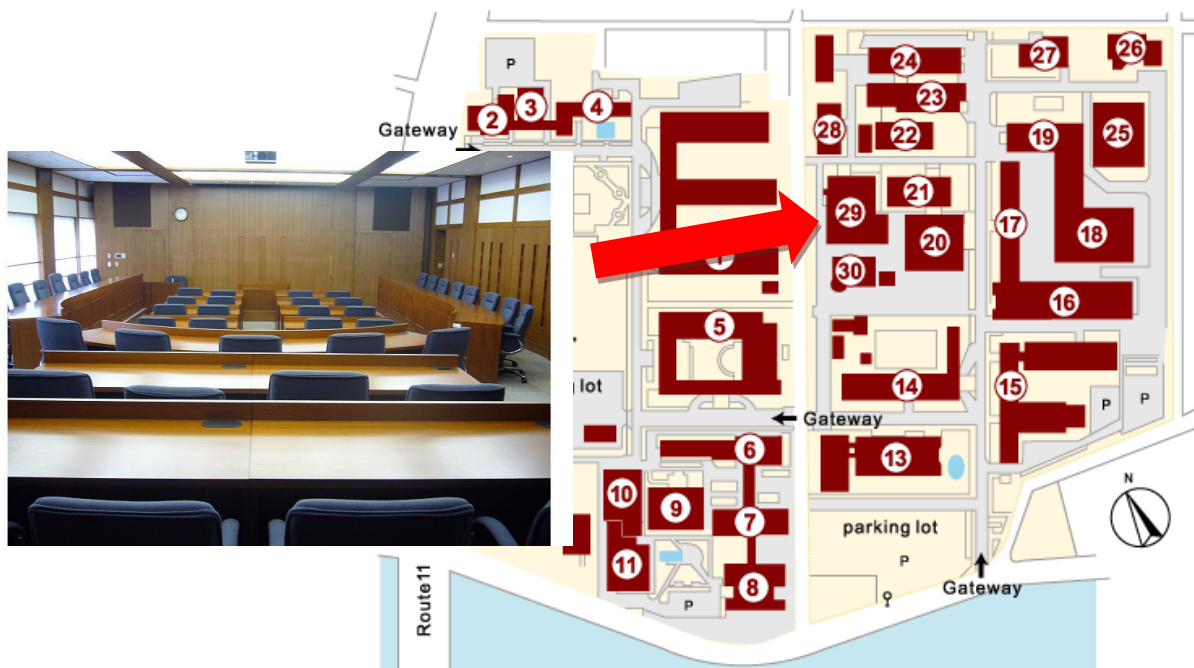


Josanjima Campus



Faculty of Science and Technology

29. Building Incubation Facilities & Center for Research Administration & Collaboration
3F Nichia Hall





ISALMT2018

ISALMT2018 Organizing Committee

Chairperson

Yoshihiro Deguchi Tokushima University, Japan

Co-Chairpersons

Junjie Yan Xi'an Jiaotong University, China
Jiazhong Zhang Xi'an Jiaotong University, China

Advisory Committee

Yoshiyuki Kidoguchi	Tokushima University, Japan
Yuzuru Nada	Tokushima University, Japan
Mitsuhiro Ohta	Tokushima University, Japan
Tatsuya Okada	Tokushima University, Japan
Hiroyuki Ukida	Tokushima University, Japan
Kenji Terada	Tokushima University, Japan
Qiuwang Wang	Xi'an Jiaotong University, China
Jiping Liu	Xi'an Jiaotong University, China
Yan Zhou	Xi'an Jiaotong University, China
Zhenzhen Wang	Xi'an Jiaotong University, China
Ryoichi Kurose	Kyoto University, Japan
Hiroaki Watanabe	Kyushu University, Japan
Kenji Tanno	Central Research Institute of Electric Power Industry, Japan
Kazuki Tainaka	Central Research Institute of Electric Power Industry, Japan