



SAGA UNIVERSITY

国立大学法人

佐賀大学

The 1st International Co-operative Seminar of
Post-graduate Program for Global Advancement
(1st ICS-PPGA)

Abstract

第1回環境・エネルギー科学グローバル教育プログラム (PPGA)
国際協働セミナー(1st ICS-PPGA)

講演要旨集

【主催】佐賀大学 大学院工学系研究科

【企画運営】佐賀大学 工学研究科 PPGA 運営委員会

第1回環境・エネルギー科学グローバル教育プログラム（PPGA）国際協働セミナー

【趣旨】

佐賀大学大学院工学系研究科では、2014年度に「環境・エネルギー科学グローバル教育プログラム」を設置し、外国人留学生と日本人学生が共学しながら環境・エネルギーに関連する課題を中心に学習と研究を進めています。国際協働セミナーは、工学系研究科、協力関係にある海外の大学、佐賀県内企業、及び自治体との協働を図るためのセミナーであり、本プログラムの教育研究の内容と成果をお知らせし、相互の交流を推進するために開催いたします。

【開催日時】2018年12月26日（水）

第1部 9:00～11:30、第2部 12:45～14:20、第3部 14:40～16:50 交流会 17:00～

【開催場所】佐賀大学理工学部大学院棟1階102教室（第1～2部）ならびに

佐賀大学理工学部1号館中棟1階 デザイン工房室（第3部ポスター発表、交流会）

【プログラム】

（佐賀大学理工学部大学院棟1階102教室）

第1部：海外で働く修了生から在学生へのメッセージと最新研究（英語のみの開催となります）

9:00～ 9:10 開会挨拶 渡 理工学部長、宮良 PPGA 運営委員長

9:10～ 9:40 招待講演 Mohammad Ariful Islam 氏

Khulna University of Engineering & Technology, Bangladesh

“Environmental Impacts of Refrigerants and Properties Prediction of Alternatives”

9:40～10:10 招待講演 Durga Parajuli 氏

グリーンテクノロジー研究グループ、産業技術総合研究所

“My Experiences as a PSJP Fellow and a Researcher in Japan”

10:10～10:30 休憩（コーヒーブレイク）

10:30～11:00 招待講演 Md. Azad Hossain 氏

Chittagong University of Engineering and Technology, Bangladesh

“My Research experience at Saga University”

11:00～11:30 招待講演 Tri Harianto 氏

Hasanuddin University, Indonesia

“Graduated from Saga University, What’s next?” and

“Utilizing of microbial agent to improve problematic soil”

11:30～12:45 休憩（昼食）

(佐賀大学工学部大学院棟 1 階 1 0 2 教室)

第 2 部：産官学協働—在学生との参加者との技術交流— (日本語または英語を適宜使用)

12:45～13:00 開会挨拶 渡 理工学部長, 宮良 PPGA 運営委員長

13:00～13:20 佐賀県産業労働部産業人材課 久冢裕樹氏
「佐賀県における国際化の現状」

13:20～13:40 佐賀県工業連合会 副会長 吉村 正 氏
「佐賀県工業連合会の国際化について」

13:40～14:00 株式会社中山鉄工所営業部企画開発課 渡邊美信 氏
「国内外インターン生と協同による環境・エネルギー技術の開発」

14:00～14:20 株式会社九州パイリング Sailesh Shrestha 氏
「Introduction of Kyushu Piling Co., Ltd. and its Technical development and Research
(株式会社九州パイリング の会社紹介とその技術開発と研究)」

14:20～14:40 休憩 (コーヒープレーク)

(工学部 1 号館中棟 1 階 地域連携デザイン工房室)

第 3 部：在学生による研究成果発表と技術交流 (英語を主とする) と企業展示

14:40～16:50 ポスターセッション

交流会：参加費 (一般 (教員・学外者) : 3,000 円, 学生 : 1,000 円)

会場：工学部 1 号館中棟 1 階 デザイン工房室

17:00 (会場の準備が整い次第 開始) 挨拶 渡 理工学部長, 宮良 PPGA 運営委員長

【主催】佐賀大学 大学院工学系研究科

【企画運営】佐賀大学 工学研究科 PPGA 運営委員会

お申込先・お問合せ先 (Address for application and question)

佐賀大学工学部 PPGA 委員 富永 昌人 (Prof. Masato Tominaga)
E-mail: masato@cc.saga-u.ac.jp, Tel: 0952-28-8561(直通)

佐賀大学工学部 PPGA 委員長 宮良 明男 (Prof. Akio Miyara)
E-mail: miyara@me.saga-u.ac.jp, Tel: 0952-28-8623(直通)

The 1st International Co-operative Seminar of Post-graduate Program for Global Advancement (1st ICS-PPGA)

【Scope】

Post-graduate Program for Global Advancement (PPGA) organized by Graduate School of Science and Engineering, Saga University, started in 2014. Many foreign students are learning and studying a theme related with environment and energy aspects with Japanese students. The PPGA committee member encourages the students not only for learning and extending your knowledge about the fundamental aspects of environmental, energy and its related fields in the 1st ICS-PPGA, but also for making relationship with other department students and the company participants through the Poster presentation and the gathering.

【Date and Time】 December 26th, 2018

Part 1 9:00~11:30, Part 2 12:45~14:20, Part 3 14:40~16:50 Gathering 17:00~

【Place】 Saga University (Sci.& Eng. DC Building, 1st floor #102 room, and
Sci.& Eng. #1-middle Building, 1st floor, Design-Eng. room)

【Program】

(Sci.& Eng. DC Building, 1st floor #102 room)

Part 1: Message and Latest research (All English)

- 9:00~ 9:10 Opening remark Dean, Prof. Watari, Head of PPGA program Prof. Miyara
- 9:10~ 9:40 Invited speaker Dr. Mohammad Ariful Islam
Khulna University of Engineering & Technology, Bangladesh
“Environmental Impacts of Refrigerants and Properties Prediction of Alternatives”
- 9:40~10:10 Invited speaker Dr. Durga Parajuli
The National institute of Advanced Industrial Science and Technology (AIST), Japan
“My Experiences as a PSJP Fellow and a Researcher in Japan”
- 10:10~10:30 coffee break
- 10:30~11:00 Invited speaker Dr. Md. Azad Hossai
Chittagong University of Engineering and Technology, Bangladesh
“My Research experience at Saga University”
- 11:00~11:30 Invited speaker Dr. Tri Harianto
Hasanuddin University, Indonesia
“Graduated from Saga University, What’s next?” and
“Utilizing of microbial agent to improve problematic soil”
- 11:30~12:45 Lunch time

(Sci.& Eng. DC Building, 1st floor #102 room)

Part 2: Mixer of Student-Participant in Science and Engineering (English or Japanese)

12:45～13:00 Opening remark Dean, Prof. Watari, Head of PPGA program committee, Prof. Miyara

13:00～13:20 佐賀県産業労働部産業人材課 久家裕樹氏
「佐賀県における国際化の現状」

13:20～13:40 佐賀県工業連合会 副会長 吉村 正 氏
「佐賀県工業連合会の国際化について」

13:40～14:00 株式会社中山鉄工所営業部企画開発課 渡邊美信 氏
「国内外インターン生と協同による環境・エネルギー技術の開発」

14:00～14:20 株式会社九州パイリング Sailesh Shrestha 氏
「Introduction of Kyushu Piling Co., Ltd. and its Technical development and Research
(株式会社九州パイリング の会社紹介とその技術開発と研究)」

14:20～14:40 coffee break

(Sci.& Eng. #1-middle Building, 1st floor, Design-Eng. room)

Part 3: Poster presentation by student and company

14:40～16:50 Poster presentation

14:40～15:40 Odd poster numbers (1,3,5,.....41).

15:50～16:50 Even poster numbers (2,4,6,.....42).

(Sci.& Eng. #1-middle Building, 1st floor, Design-Eng. room)

Gathering

participation cost for student: 1,000 JPN Yen

Place : K Sci.& Eng. #1-middle Building, 1st floor, Design-Eng. room

17:00～18:30

【Sponsor】 Graduate School of Science and Engineering, Saga University

【Organizer】 PPGA committee member, Graduate School of Science and Engineering, Saga University

Poster Session Program

Poster No.	Name	Title
1	Thet Su Hlaing	Investigation of Indigenous Building Material in Correlation with Indoor Thermal Comfort in Burmese House
2	HyoChang Jang	Characterization of Al-doped ZnCdO thin films on MgO substrates by molecular beam epitaxy
3	Teguh Hady Ariwibowo	Numerical Study of Discrete Ribbed Tube Thermal Performance for Ground Heat Exchanger
4	Tsutsui Motofumi	CO ₂ recovery from CO ₂ -captured alkanolamine using electrochemical method
5	Elton Nascimento Lima	Phase Noise Improvement of a Ku-Band Push-Push Oscillator Using Injection Locking via Two Magnetic Coupling Points
6	MD. KHAIRUL BASHAR	Experimental Study of Condensation and Evaporation Heat Transfer Characteristics inside Small Diameter 2.5 mm Tubes
7	Kyaw Zin Htoo	Experimental Investigation on Thermal Performance of Loop Heat Pipe Operating with Different Working Fluids
8	Maodudul Hasan	A Polarization Switchable Active Array Antenna Integrating a Multiport Oscillator and PSK Modulators
9	Shumpei Ototani	Power generation of Mud Battery and Analysis of Electron Transfer Reaction at Carbon Anode
10	Yuma Dote	Syntheses, Crystal Structures, and Spectroscopic Properties of Y(III) and Tb(III) Complexes of Optically Active N ₄ O ₂ Ligand Derived from 1,2-Propanediamine with Chloride as Co-Ligand
11	Hinako Hatada	Control of Defoaming Temperature of Pickering Foams Stabilized by Poly(N-isopropylacrylamide) Copolymer Nanogels
12	Takuya Iwakuma	Syntheses, Structure, and Spectroscopic Properties of Dinuclear Zinc(II) Complexes with N ₂ O ₂ Ligands Derived from 9,9-Bis(4-aminophenyl)fluorene with Salicylaldehyde
13	Wataru Kasaishi	Recovery of palladium particle in highly-viscous solution by using phase transition of water-soluble polymer
14	Shohei Esaki	Size separation of particles using deformation of packed gel in column
15	Daishin Kori	Syntheses, Crystal Structures, and Spectroscopic Properties of Some Heterotrinary Zn ₂ Ln Complexes Derived from 1,4-Diaminobutane-Based N ₂ O ₄ Compartmental Ligand
16	Yuuki Oshikwa	Syntheses, Crystal Structures, and Spectroscopic Properties of Dinuclear Zinc(II) Helical Complexes Derived from N ₂ O ₂ Ligands with Different Torsion-Generating Sources
17	Sasipa San-glar	Investigation Indoor Air Quality in Office Ventilation System in Thailand
18	Thet Paing Phyo	A 5.8-GHz Dual-Axis Monopulse Microstrip Array Antenna Using Dual-Feed Network
19	Yui Iwamoto,	Novel spatial pattern formed through gelation of collagen
20	Kazuki Matsunaga	Research of Brownian Motion of Platinum-Supported Hetero Particle
21	Yuki Mitsutake	Novel Preparation Method for Asymmetric GUV using Langmuir Film
22	Yuki Takazaki	Preparation of Self-Oscillation Capsule Powered by Glucose
23	Akbar Rahman	Study of Indoor and Outdoor Thermal Comfort for Public Space and Houses around River in Summer Case study: Banjarmasin-Indonesia
24	Khaing Myint Mo	Assessment of Urban Form for Grid Pattern City in Tropical Zone Based on Correlation between Urban Morphology and Microclimate
25	Dan YU	Selective adsorption behavior of cesium ion on crosslinked tea leaves
26	SU WAI THIN	Flood Simulations for Bago River Basin Using IFAS
27	Daiki Matsuo	Electric properties for thin films consist of hydrogenized carbon synthesized by atmospheric pressure plasma method from different particle size graphites as raw materials
28	DIPAYAN MONDAL	Measurement of viscosity of low-GWP (R32+ R1123) refrigerant mixtures both liquid and vapor phase over the pressures at 3 MPa and 4 Mpa
29	Kota Sonoda	Evaluation for amount of oxygen functional group in hydrophilic carbon material by potentiometric titration and analysis of binding behavior of surfactant

Poster No.	Name	Title
30	Riona Hayashi	Synthesis of graphene oxide derivatives with alkyl diamines
31	Tsukasa Kiyonaga	Characterization for film prepared at liquid-gas/liquid interface of hydrophilic carbon material synthesized by atmospheric pressure plasma treatme
32	Yuka Katayama	Effect of environmental gases for electrical properties of graphene oxide and its derivatives with butyl and octadecyl alkyl chaines
33	MD. MEHEDI HASSAN	Source Location of Complex Structures by Applying Multidimensional AE Technique
34	Ye Zin Naing	Development of Wastewater Safety System in Landfill Site Using Hybrid Adsorbent
35	SOMSIRI SIEWWUTTANAGUL	Three essays on land use & transport connectivity towards accessibility improvement
36	Mizuki Ryu	Investigation of mass transfer phenomenon at liquid-liquid extraction by using a droplet-based microreactor
37	TRAN XUAN DUC	Study on performance improvement and cost reduction of ground source heat pump
38	Anika Sarah	Field Survey on Nutrient Transport in Discharged Water and sediment quality in Receiving Area by Seasonal Operation of Sewage Treatment Plant
39	Martin Christen	Synthesis of 2-ethylhexylphosphonic acid methylbenzyl ester
40	Derbel Mohamed Rami	Analysis of urban façade continuity using a deep learning based method
41	Rabeya Akter	Boundary Layer Slip Flow along Horizontal Plate in Porous Medium with Internal Heat Generation, Variable Properties and Stefan Blowing

The 1st International Co-operative Seminar of
Post-graduate Program for Global Advancement
(1st ICS-PPGA)

第1回環境・エネルギー科学グローバル教育プログラム (PPGA)
国際協働セミナー(1st ICS-PPGA)

1st ICS-PPGA 組織委員会 (PPGA 委員会)

PPGA 委員長：宮良 明男

実行委員長：富永 昌人

実行委員：田中 高行

実行委員：田中 徹

実行委員：日野 剛徳

実行委員：寺本 顕武

実行委員：KHAN MD. TAWHIDUL ISLAM

1st ICS-PPGA 事務組織

理工学部事務長：湊上 道晴

理工学部主任：辻田 千鶴

【主催】佐賀大学 大学院工学系研究科

【企画運営】佐賀大学 工学研究科 PPGA 運営委員会

