


Special Issue:
Kyoto University International Symposium on Education and Research in Global Environmental Studies in Asia

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1. Introduction

By Hidenori Harada , Assistant Professor, GSGES

From November 26 to 28, 2019, Kyoto University held the "Kyoto University International Symposium on Education and Research in Global Environmental Studies in Asia" at Shiran Kaikan, Yoshida Campus. The symposium was organized in collaboration with "Kyoto University Environmental Innovator Program – Cultivating Environmental Leaders across the ASEAN Region", and supported by MEXT (the Ministry of Education, Culture, Sports, Science and Technology). The symposium attracted 269 participants from 32 universities and 20 other organizations from 17 different countries.

The symposium opened with an address from KU President Prof. Juichi Yamagiwa, followed by a speech from Prof. Shinya Funakawa, Dean of the KU Graduate School of Global Environmental Studies. Keynote lectures were delivered from Mr. Istu Adachi, director general of the Infrastructure and Peacebuilding Department, JICA (Japan International Cooperation Agency), and Mr. Tomoyuki Kimura, director general of the Strategy, Policy and Partnerships Department, ADB (Asian Development Bank). A panel discussion was organized with two keynote lectures from Dr. Le Van An, Rector of Hue University of Agriculture and Forestry, and KU Executive Vice-president Dr. Masao Kitano. The panel was chaired by Prof. Takeshi Katsumi, Vice-dean of the KU Graduate School of Global Environmental Studies.

In the afternoon, 53 brief platform presentations were provided on environmental studies topics by students and young researchers, followed by 83 poster presentations. A special Session on the Kyoto

University On-site Laboratory Project was held afterwards. KU Vice-president Prof. Yasuyuki Kono gave an introductory presentation, followed by seven other presentations from different on-site laboratories. The first day of the symposium ended with a reception held at Kyoto University CO-OP Yoshida Dining. Several events took place during the reception, such as presenting overseas universities with a token of appreciation, group photos, and the award ceremony for excellent research presentations.

Day two of the symposium commenced with the two parallel sub-sessions "Agro-environmental challenges for achieving the SDGs" and "Present and future cooperative research activities at the Kyoto University On-site Laboratory in Shenzhen, China". In the afternoon, the two parallel sub-sessions "Front-line activities for an international advanced education system" and "Seeds funding: Future plans for collaboration by young researchers" took place. The closing session consisted of brief reports from all sub-sessions and comments from international participants on the achievements of this symposium as well as future perspectives on international collaborations in the field of environmental studies. Prof. Shigeo Fujii, KU Graduate School of Global Environmental Studies, delivered the closing remarks.

On November 28, the three-day symposium concluded with a study tour to the Kyoto South Clean Center, Lake Biwa Arai Weir, Aqua Biwa Museum, and Lake Biwa Museum.



Audience Attentively Listening to a Presentation



Active Discussions of Participants during Poster Presentations



KU Executive Vice-president Masao Kitano Commenting during a Panel Discussion



Welcome Speech from KU President Juichi Yamagiwa at the Reception



Symposium Participants and Attendees

2. Symposium Presentations

2-1. Plenary Session

(9:10-11:30, November 26)

By Takeshi Katsumi, Professor, GSGES

The “Kyoto University International Symposium on Education and Research in Global Environmental Studies” was officially opened by Dr. Juichi Yamagiwa (President of Kyoto University) in his welcome address, followed by Professor Shinya Funakawa, Dean of the Graduate School of Global Environmental Studies, Kyoto University. After the welcoming addresses, the audience enjoyed two distinguished keynote lectures. The first keynote lecture, entitled “STI for SDGs: Role of universities and international cooperation to achieve SDGs”, was delivered by Mr Itsu Adachi (Director General, Infrastructure and Peacebuilding Department, Japan International Cooperation Agency – JICA). He emphasized the effectiveness and achievements of collaborative activities between JICA and universities, illustrated by SATREP (Science and Technology Research Partnership for Sustainable Development) and JICA-DSP (JICA Development Studies Program). The second keynote lecture, entitled “Enhancing environmental sustainability in Asia-Pacific: Role of

ADB and universities”, was given by Mr Tomoyuki Kimura (Director General, Strategy, Policy and Partnerships Department, Asian Development Bank – ADB). The lecture outlined the critical environmental challenges the Asian region is facing, lessons learned from ADB’s past and present activities, and ADB’s future strategic direction and the role that universities can play in cooperation with ADB and other development partners. The keynote lectures were followed by a panel discussion with Mr Adachi and Mr Kimura, as representatives from international development partners, as well as Assoc. Prof. Le Van An (Rector, Hue University of Agriculture and Forestry, Vietnam) and Dr. Masao Kitano (Executive Vice-President, Kyoto University) as representatives from academia. After a short introduction of their universities’ activities by Assoc. Prof. An and Dr. Kitano, comments and ideas regarding future research directions and further collaborations were shared between the panelists.

2-2. Research Session on Global Environmental Studies in Asia

(13:30-15:20, November 26)

By Mari Miyaji, Program-Specific Assistant Professor, GSGES

This session consisted of oral and poster presentations from (1) faculty members and researchers, (2) doctoral students and (3) master students and others. The former two groups gave brief oral presentations, followed by poster presentations, whereas the last group gave poster presentations only.

During the research session, 17 researchers and 26

doctoral students gave brief three-minute presentations (see table below). During the poster session, 17 researchers, 26 doctoral students and 30 master students presented their posters and exchanged ideas with participants. Both sessions were seen to provide a good opportunity to exchange opinions.

Brief Oral Research Presentations (13:30-14:30, Yamauchi Hall)

No.	Poster Title
D-2	Foraging Strategies of Japanese Eels (<i>Anguilla japonica</i>) between Fresh-and Brackish Waters Alisa Kutzer (Kyoto University)
D-4	Fecal-oral Transmission Assessment in Peri-urban Lusaka, Zambia Chua Min Li (Kyoto University)
D-6	Identification of Organic Compounds in Air Fresheners Hayley Furnell (University College Cork)
D-8	Greenhouse Gas Emissions from Blackwater Septic Tank in Tropical Climate Region: A Case Study of Hanoi, Vietnam Huynh Tan Loi (Kyoto University)
D-10	Evaluation of Forest Environmental Program for Elementary School Students in Japan: An Analysis from Perspective of ESD Junko Kondo (Kyoto University)
D-12	SWMM-based Assessment of Low Impact Development Facilities at an Urban Catchment Scale in Japan Linying Zhang (Kyoto University)
D-14	Paradigm Shift of Natural Hazards in Northern Bangladesh: Looking through the Hazard Prioritization and Risks of Hailstorm Md Lamiur Raihan (Kyoto University)
D-16	IoT Integrated Monitoring System for On-site Sanitation in Bangkok, Thailand Moonkawin Jakpong (Kyoto University)
D-18	The State of Mining Reclamation in East Kalimantan Forest Areas Rina Kristanti (Bogor Agricultural University)
D-20	Pesticide and Water Quality Modeling as Decision Support Tools for Water Quality Management: A Case Study on Paraquat in Chao Phraya Basin Songsak Vichuma (Mahidol University)
D-22	Determination of Life Cycle GHG Emission Factor for Paper Products of Vietnam Ta Thi Yen (Hanoi University of Science and Technology)
D-24	Investigation of Heavy Metal Components and Microbial Community in the Sediment of Black-odor River – A case study in Aojingchong River Yang Liu (Tsinghua University)
D-26	Study of Community-led Housing Provision for Low-income Households: Basic Survey in Pan Thazin Housing in Yangon Yin Mon Naing (Kyoto University)
R-2	System Modeling on National Rice Stock Management for Policy Making Support in Bangladesh Alin Khaliduzzaman (Kyoto University)
R-4	Professional Education on Land Management in Cambodia: Current Status and Future Plan Chin Dyna (Royal University of Agriculture)
R-6	Carbon Stock Estimation and Landscape Pattern Analysis of Silang-Santa Rosa Sbu watershed, Philippines Jan Joseph Dida (University of the Philippines Los Baños)
R-8	Action Plan to Develop Eco-tourism through Community-based Approach for Ethnic Minority People in Upstream Areas of Bo River, Thua Thien Hue Province - Central Vietnam Le Thai Hung (Hue University)
R-10	Study on the Impacts of Invasive Alien Species in Ba Na - Nui Chua Nature Reserve, Danang city, Vietnam Pham Thi Kim Thoa (The University of Danang)
R-12	The Effect of Si Fertilizers on Growth and Yield of Indica New Plant Tipe Rice Sugiyanta (IPB University)
R-14	IoT Based Fecal Sludge Management: A Proposal to Formalize the Informal Fecal Sludge Emptying Businesses Wutyi Naing (Kyoto University)
R-15	Long-term Analysis of the Water Quality of the Southern Part of Lake Biwa Yokoi Takahiro (Kyoto City Waterworks Bureau)
R-16	Entomophthorales: the Guards of Agricultural Ecosystems Ruly Anwar (IPB University)

Brief Oral Research Presentations (13:30-14:30, Inamori Hall)

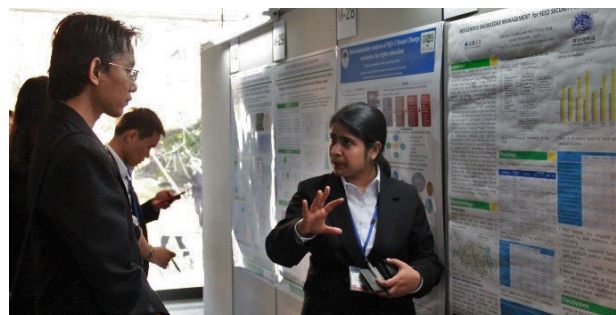
No.	Poster Title
D-1	Urban Environmental Governance in India: Role of Intermediaries in Addressing Challenges Abhishek Koduvayur Venkitaraman (Kyoto University)
D-3	Study on the Integration of Disaster Risk Reduction and Climate Change Adaptation for Regional Governance -Taking the Risk of Sloping Land Disaster as an Example ChinYu He (National Taiwan University)
D-5	The Environmental Education at MSW (Municipal Solid Waste) Treatment Facilities in Japan Eiichi Suzuki (Kyoto University)
D-7	Positioning System Using Spread Spectrum Sound for Greenhouse Robots Huang Zichen (Kyoto University)
D-9	Perceptions of Gender in Disaster Risk Irene Petraroli (Kyoto University)
D-11	Characterization of Tomato Autofluorescence Observed from Surface Keiji Konagaya (Kyoto University)
D-13	Are Unmaintained Sensors Useful to Monitor Wastewater Treatment Plants? Mariane Schneider (ETH Zurich)
D-15	Rate Constant of the Reaction of HO ₂ + DO ₂ . Mohamed Assali (University of Lille)
D-19	Survey on Adsorption Characteristics of Polycyclic Aromatic Hydrocarbons on Microplastics by Focusing on Their Sizes in Lake Biwa and Osaka Bay, Japan Satoru Yukioka (Kyoto University)
D-21	Reishi Mushroom-mediated Wastewater Treatment for Sustainable River Management Sugenendran Supramani (University of Malaya)
D-23	Influence of Cement Addition on Barrier Performance of Soil-bentonite Cut-off wall Yan Tian (Kyoto University)
D-25	Features of the Reformed Environmental Impact Assessment System in China Yang Yang (Kyoto University)
D-27	Removal of Diethyl Phthalate, Glyphosate and Tetracycline by Advanced Oxidation Technology" Zhang Zhengfang (Tsinghua University)
R-1	Induction of Artificial Agarwood in <i>Gyrinops versteegii</i> (Gilg.) Domke Using Endophytic Fungi <i>Fusarium Solani</i> Ahmad Faizal (Institut Teknologi Bandung)
R-3	Effects of Different Levels of Biochar with Brewers' Grain and Ensiled Cassava Root for Fattening Native Cattle in Lao PDR Bounthavy Vongkhamchanh (Champasack University)
R-5	Status and Dynamics of Seagrass Ecosystems in Central Vietnam Hoang Cong Tin (Hue University of Sciences)
R-7	Water Environment Management utilizing Monitoring Data and GIS Data - the Change in the Lake Biwa-Yodo River basin Keiko Wada (Lake Biwa-Yodo River Water Quality Preservation Organization)
R-9	Study On Assessing The Salinity Intrusion In The Downstream Of Vu Gia – Thu Bon River Nguyen Duong Quang Chanh (Danang University of Science and Technology)
R-11	A Feasibility Study on Chemically Exfoliated Graphene Oxide Production Sira Srinives (Mahidol University)
R-13	Evaluation of Growth of Vanilla Plant (<i>Vanilla planifolia</i>) on Peanut Shell – Bokashi Material: A case Study in Huong Van Commune, Thua Thien Hue Province, Central Vietnam Vu Tuan Minh (Hue Agricultural University)
R-17	Inland Aquaculture-based Helmholtz Resonator for Precise Fish Volume Measurement Njane Stephen Njehia (Kyoto University)

研究セッションでは、17名の研究者および26名の博士課程学生による口頭研究発表を行いました。一人あたり3分という限られた時間の中で、非常によくまとまった研究報告が多く見られました。発表内容は文理を問わず多岐にわたり、地球環境問題をさまざまな視点から捉えられており、オーディエンスだけでなく、発表者間においても貴重な情報共有の場となりました。

ポスターセッションでは、研究者17件、博士課程学生26件、修士課程学生30件のポスターによる研究発表がありました。ポスターセッションの時間帯には参加者がポスターの前で発表者との質疑を積極的に行い、発表内容に対する高い関心が伺えました。また、オンサイト・ラボラトリーで紹介ポスターも12件展示され、多くの関心を集めていました。



Brief Three-minute Presentation



Poster Presentation in Research Session

2-3. Special Session: Kyoto University On-site Laboratory Project (15:40 – 17:40, November 26)

By Shigeo Fujii, Professor, GSGES

On the 26th November, a special session was held at Inamori Hall, focusing on the “On-site Laboratory Project”, which Kyoto University launched as one of its activities as a “Designated National University” (approved by the Government in 2017). “On-site Laboratories” are facilities to promote international collaboration in education and research. Kyoto University has selected 5 on-site laboratory projects in 2018 and 6 projects in 2019. In this session, Prof. Shigeo Fujii (GSGES, session coordinator) outlined the purpose of the session, before Vice-president Kono, who is in charge of this project, explained its contents. Four 2018-laboratories and three 2019-laboratories were then introduced by the respective project leaders, before the session concluded with a panel discussion of these leaders. The presentations and their presentation topics are as follows:

1. Yasuyuki Kono (Vice-President/ Professor, CSEAS): Kyoto University On-site Laboratory Project
2. Shigeo Fujii (Professor, GSGES): On-site Laboratory at Mahidol University for Educational and Research Collaboration on Environmental Studies
3. Hiroaki Tanaka (Director / Professor, GS Eng.): Onsite Laboratory Kyoto University-Tsinghua University Cooperative Research and Education Center for Environmental Technology (CRECET)
4. Satoshi Horike (Assoc. Professor, iCeMS): Kyoto University-VISTEC (Vidyasirimedhi Institute of Science and Technology) Laboratory for Materials Research and Education

5. Makoto Noda (Vice-President / Professor, Research Promotion Dep.): IFOM-KU Joint Research Laboratory: Elucidating the mechanisms of chromosome instability in cancer
6. Fuyuhiko Tamanoi (Professor, iCeMS): Quantum Nano Medicine Research Center
7. Shinya Yamamoto (Assoc. Professor, KU Inst. of Advanced Study): Comparative Cognitive Science Laboratory
8. Jun Suzuki (Professor, iCeMS): Center for Integrated Biosystems

初日 15:40 から、稲盛ホールで「オンサイトラボラトリー」をテーマとした特別セッションが行われました。「オンサイトラボラトリー」とは、京都大学が2017年指定大学法人に認定されたことを契機に進められた京都大学独自の事業で、海外の大学や研究機関等と共同運営する施設をさしています。2018年および2019年に学内公募され、それぞれ5件、6件が採択されました。地球環境学堂は、「Mahidol 環境学教育・研究拠点」(単独申請)と「京都大学ー清華大学環境技術共同研究・教育センター」(工学研究科主担当で学堂参画)の2件を2018年に申請しましたが、ともに採択されました。

セッションの第一部では、安達まり子 国際戦略本部特定講師の司会のもと、企画者の藤井滋穂 地球環境学堂教授が本セッションの狙いを説明され、次いで「オンサイトラボラトリー」事業統括の河野泰之 国際戦略本部長・副学長が事業の概要を解説されました。引き続き2018年度採択の4件の事業について、それぞれの代表者からその内容が紹介されました。



Explanation of the "On-site Laboratory Project" by Vice-President Kono



Audience of the Special Session



Panel Discussion by 7 Project Leaders (I)



Panel Discussion by 7 Project Leaders (II)

続く第二部では、2019 年度採択の 3 事業が紹介されたのち、藤井教授を座長として、以上の 7 件のオンサイトラボ実施者によるパネルディスカッションが実施されました。パネルディスカッションでは、それぞれのパネリストによるこのような国際連携事業を進める上での困難さが指摘されるとともに、会場からも積極的な質問があり、活発な討議が行われました。なお、今回発表のなかった 4 件を含め、2018 年度、2019 年度採択の全 11 件の事業は、国際戦略本部による全体説明とともに、シンポ会場にポスター掲示され、参加者の注目を集めました。



Questions from the Floor in Panel Discussion

2-4. Sub Session 1: Agro-environmental Challenges for Achieving the SDGs

(9:30 – 11:30, November 27)

By Naoshi Kondo, Professor, Graduate School of Agriculture

Sub Session 1 offered a discussion of the trade-off problem "Food Production-Environmental Conservation" for humans' affluent and healthy lives from various perspectives in several countries. 8 presenters illustrated current trade-off problems and presented solutions that utilize new technologies in agriculture, aquaculture, livestock and forestry under specific consideration of the Sustainable Development Goals. The presenters and their presentations are shown below:

1. Nyoman Aryantha (Prof. ITB, Indonesia): Mycoprotein for Future Food
2. Suwardi (Dean, Prof. IPB, Indonesia): Agro-environmental Challenges for Achieving the SDGs in Indonesia
3. Jirawat Sanitchon (Prof, Khon Kaen U, Thailand); New Soybean Ideo Plant Type to Achieve SDGs under Climate Change of the Northeast, Thailand
4. Igarashi Yasuhito (Prof. Kyoto U): Impacts of Nuclear Accidents on Forest Environments and its Implications for Bioaerosol
5. Mitamura Hiromichi (Prof. Kyoto U): Biologging: Tools for Fisheries Management and Conservation
6. Hor Sanara (Prof. Royal U of Agriculture, Cambodia): Cloud Based Processing Sentinel Dataset for Mapping Land Use and Land Cover in Veal Veng District, Pursat Province, Cambodia
7. Khaliduzaman (Prof., Sylhet Agricultural U, Bangladesh): Chick Embryos Grading towards Achieving SDGs: Zero Hunger
8. Nakamura Kimihito (Prof. Kyoto U): Organizational Paddy Irrigation Management for Water-saving and Environmental Conservation

セッション1では人類の豊かで健康な暮らしを支えるための「食料生産－環境保全」のトレードオフ問題を異なる国々の種々の側面、立場から議論された。インドネシア、タイ、カンボジア、バングラデッシュ、日本の研究者が8件の話題提供を下記のように行った。

それぞれの発表では、菌類を利用した農業、土壌劣化の問題、気象変動の問題、機械化への課題、原子力発電所の事故に伴う放射線残留、水産における情報化、スマート農業への期待、精密畜産のためのセンサ、水田における水の保全の問題等がそれぞれの国の課題として紹介され、種々の国々の参加者から積極的な意見交換がなされた。本セッションの参加者は約40名を数え、質問等の意見を出された方々

の国は、話題提供の国に加えてベトナム、フランス、ベルギー、ケニアと非常に多岐に渡り、今後共に世界各国で継続した議論が必要とされる内容であることが再認識された。



Audience and Speakers of the Session 1

2-5. Sub-session 2: Present and Future Cooperative Research Activities at the Kyoto University On-site Laboratory in Shenzhen, China

(9:30-11:30, November 27)

By Hiroaki Tanaka, Professor, Graduate School of Engineering

More than 60 participants from academia as well as the public and private sector in Japan and overseas joined this session to discuss expectations and future activities of the Kyoto University on-site laboratory project, in particular the Kyoto University-Tsinghua University Cooperative Research and Education Center for Environmental Technology (CRECET).

In his opening remarks, Prof. Xiaofeng WU (Chinese Communist Party Secretary, Tsinghua Shenzhen International Graduate School - TSIGS, Tsinghua University, China) stressed that the on-site laboratory is a good platform to connect academia with the public and private sector. Prof. Tanaka (Director of CRECET), then introduced the objective of this session: "How to work together via on-site laboratory among environmental engineering sectors of academia, public and private in Japan and China."

First, Mr. Natsuki HISAOKA, Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan, gave his presentation on "International Cooperation in the Sewerage Field." He mentioned that Chapter 6 of the United Nations Sustainable Development Goals recommends to "halve the proportion of untreated wastewater." Japan has suffered from serious water pollution in the past but has found solutions to these

problems. Based on Japanese experience and know-how, MLIT, municipalities and private companies cooperate on solving these issues in other countries. Mr. Hisaoka stated that technology development and transfer, as well as support to enhance cooperation between public and private sectors in Japan and overseas, including demonstration projects abroad, are important and effective for the improvement of both the water environment and good sanitation.

Second, Mr. Kentaro DOI, Ministry of Environment (MOE), Japan, presented the "International Activity in the Material Cycle and Waste Management Field in Japan." He discussed solid waste issues in Asia and insisted that sound material cycles and waste management are important. MOE promotes international cooperation, including the support for institutional development and its contribution to international organizations, such as a Regional 3R Forum in Asia and the Pacific, African Clean Cities Platform, G20 Implementation Framework on Micro-Plastic, and World Circular Economy Forum. He also showcased MOE's collaboration with the private sector on a plastic smart campaign. Overall, his talk illustrated how MOE supports developing countries that are suffering from waste problems with Japanese knowhow and advanced technologies in the material cycles and waste management field.

Third, Mr. Nobuhiro TANIGAKI, Nippon Steel Engineering Co., Ltd. (NSE), talked on "International Activity of Nippon Steel Engineering for Waste-to-Energy." He demonstrated NSE's waste-to-energy technology, particularly a system consisting of optimum grate, furnace and boiler, and water-steam cycle for high power generation. Furthermore, for waste with higher moisture contents, he stated that NSE has installed several municipal solid incineration plants in East and Southeast Asia (including China) and contributes to the circular economy offering state-of-the-art technology.



Opening Remarks by Prof. Xiaofeng WU (CCPS of TSIGS, TU)

Fourth, Mr. Satoshi NISHINO, Hitachi Zosen (HITZ) Corporation, presented “Water Treatment Technology of Hitachi Zosen Corporation in Chinese Market,” and introduced HITZ’s environmental technology, in the areas of waste incineration, desalination, and water treatment. His talk focused on fiber filtration systems for water treatment facilities and CSO treatment in China and on the collaboration between HITZ, TSIQS, and CRECET on field tests. He concluded that Chinese markets require technologies with lower total costs (in particular initial cost) and smaller carbon footprint.

Last, Mr. Dequan QIN, Hualan Design & Consulting Group (HDCG), China, talked on “Experience of Water Environment Restoration Technology Exchange and Cooperation between China and Japan.” HDCG and Kyoto University are performing cooperative research through CRECET on stormwater control for water quality and watershed management. Two engineers of HDCG stayed at Kyoto University for two months to study the water environmental infrastructure of both central and local government. This experience could help to improve the water environment in Southern China. He suggested that the Chinese market demands technologies of water environment restoration and that the cooperation between HDCG and Kyoto University on water environment restoration projects is, therefore, very useful.

After the five presentations, a panel discussion, chaired by Prof. Tanaka, was held. After an active discussion all panelists concluded that the on-site laboratory system strengthens academia, public and private relations and effectively promotes scientific knowledge, R&D of technologies, and disseminates technologies and institutional systems.

Prof. Masaki TAKAOKA, Graduate School of Engineering and Vice Director of CRECET, stated in his closing remarks that the promotion of collaborative education is also important because students will become future key players in this field.



Panel discussion with Mr. Satoshi Nishino (HITZ), Mr. Dequan Qin (HDCG), Mr. Natsuki Hisaoka (MLIT), Mr. Masayoshi Kurisu (MOE), Mr. Nobuhiro Tanigaki (NSE), and Prof. Hiroaki Tanaka (Kyoto University) (from left to right)

2-6. Sub Session 3: Front-line Activities for an International Advanced Education System

(12:45-14:45, November 27)

By Shuhei Tanaka, Associate Professor, GSGES

Sub session 3 “Front-line activities for an international advanced education system” was held at Inamori Hall, Kyoto University, Nov. 27, 2019. The session focused on international advanced education systems, such as the higher education academy, Information and Communication Technology (ICT), and Internet of Things (IoT). These elements have been becoming a new norm for universities to enrich educational programs, facilitate research, and attract talented students. In this sub-session, we exchanged information on front-line activities for an international advanced education system. We discussed prospects, outcomes, and practical issues of establishing and implementing such international educational programs.

Dr. Prasert Makkaew, Lecturer in Environmental Health/ International Affairs Coordinator School of Public Health, Walailak University, Thailand, gave his presentation “PHWU moving forward: An international collaborative approach in research and education”. PHWU offers “active learning” and “practical skills” through community-based learning and long-term co-operative education. The quality of its teaching and learning endeavors are certified by the independent certification system UKPFS.

Dr. Watcharra Chintakovid, Assist. Prof. and Assistant to the Vice President for Kanchanaburi Campus in Education/ Chairman of M.Sc. program in Food Resources and Ecosystem Sustainability School of Interdisciplinary Studies, Mahidol University, Kanchanaburi Campus, Thailand, gave his presentation “Prospectives and Challenges of Outcome Based Education at Mahidol University, Thailand: A Case Study of Agricultural Science Program at Kanchanaburi Campus”. Mahidol University stresses “Outcome based Education (OBE)”, which does not start from the curriculum but sets aspired outcomes first to avoid uniform, one-way teaching. The approach supports learning practical skills and developing interdisciplinary curiosity through work-integrated learning in cooperation with local and international enterprises.

Dr. Nurhayati Arifin, Vice Dean, Faculty of Agriculture Dept. of Landscape Architecture, Faculty of Agriculture, IPB University (Bogor Agricultural University/IPB), Indonesia, presented “Towards the implementation of 4.0 Curriculum system in Internationalized Higher Education”. IPB considers different learning styles of different generations, such

as millennials and/or generation Z (e.g. introducing digital learning tools). Furthermore, state-of-the-art smart agro-maritime systems, such as Smart Fertilizing, Smart Seeds, IoT-based pest management and/or Drone & Artificial Intelligence, have been integrated into IPB's education approach.

Prof. Xiaofeng Wu, Tsinghua Shenzhen International Graduate School, Shenzhen, China,

gave his presentation “International Collaboration in Higher Education of Tsinghua Shenzhen International Graduate School”. The school offers various graduate programs across disciplines to overcome traditional barriers and promote interdisciplinary research and learning. The graduate school has multiple joint-programs to strengthen its students' ability to solve practical environmental/engineering problems.

2-7. Sub Session 4: Seeds Funding: Future Plans for Collaboration by Young Researchers

(12:45-14:45, November 27)

By Izuru Saizen, Professor, GSGES

Sub-session 4 was held to discuss possibilities to deepen future collaborations as well as establish new professional networks. Five young researchers, who have been supported by “Seeds Funding” (a GSGES research grant program established in 2013), presented their research and discussed the impacts of the funding so far as well as possibilities for future collaborative environmental research. The presenters and their presentation topics are as follows:

1. HOANG Cong Tin (Hue University of Science) Status and Dynamics of Seagrass Ecosystems in Central Vietnam
2. Bounthavy VONGKHAMCHANH (Champasak University) Effects of Different Levels of Biochar with Brewers' Grain and Ensiled Cassava Root for Fattening Native Cattle in Lao PDR
3. PHAM Thi Kim Thoa (Da Nang University of Science and Technology) Study on the Impacts of Invasive Alien Species at Ba Na - Nui Chua Nature Reserve, Da Nang City, Vietnam
4. JAN Joseph Dida (University of the Philippines, Los Baños) Carbon Stock Estimation and Dynamics of Selected Watersheds in Laguna, Philippines
5. VU Tuan Minh (Hue University of Agriculture and Forestry) Evaluation of Growth of Vanilla Plant (*Vanilla planifolia*) on Peanut Shell – Bokashi Material: A case Study in Huong Van Commune, Huong Tra District, Thua Thien Hue Province, Central Vietnam

セッション 4 では、Seeds Funding: Future Plans for Collaboration by Young Researchers と題し、これまでにシーズファンドを受給した研究者による研究発表を基に、地球環境問題の解決に向けた学際的かつ大

学の枠組みを超えた連携を実施するための議論、および、これまでのシーズファンドの総括と将来の枠組みについて話し合いました。セッションは前半の若手研究者 5 名の研究発表、後半の Discussion パートによって実施されました。冒頭にシーズファンディング担当の地球環境学、西前教授による開会の辞と論点整理が行われ、その後、西前教授の司会のもと、以下の若手研究者 5 名の発表が行われました。

これらの発表が行われた後に、西前教授より再度、論点の整理が行われ、国際共同研究を具体的に進展するために必要な Action とシーズファンドの次年度以降の在り方について議論を行いました。会場からはリモートセンシングといったキーワードだけで繋がる研究があったことから、3 か国で共同で国際的な競争的資金を獲得する可能性が十分にある、といった意見や、より効率的に資金を執行するために年度に捉われないファンドの運用を行う必要があるとの意見など闊達な意見交換が行われました。また、国際共同研究の場合は、シーズファンドに大きなインセンティブを付けることで国際化が促進されるとの意見もありました。これらの意見は、次年度以降のシーズファンディングに積極的に取り入れることを検討する予定です。全体的な議論を通じて、参加者間においてもシーズファンディングが認知され、また、研究者同士のネットワークも広がり、有意義なセッションとなりました。



Discussion in Sub Session 4

2-8. Comments on Sub Sessions and Official Closing

(15:00-16:00, November 27)

By Roger C. Baars, Senior Lecturer, GSGES

The second day of the “Kyoto University International Symposium on Education and Research

in Global Environmental Studies in Asia” was filled with critical and inspiring presentations and

discussions throughout all four sub-sessions. New insights from research across Asia were shared among participants and future pathways for collaborative work drawn. At the end of the day, three valued guests were invited to give their concluding comments on the symposium. Christa Fittschen (Professor, Research Director, CNRS, Laboratory of Physical Chemistry of Combustion and Atmosphere, University of Lille, France) highlighted the interdisciplinary character of the symposium and how important it is to break free from academic silos. This was followed by Phonesavanh Thepphasoulthone (Vice-President, Champasack University, Laos) who reflected on

international research collaboration and its importance for universities across Asia. Lastly, Huynh Trung Hai (Director of the University Research Management Office, Hanoi University of Science and Technology, Vietnam) complimented both, the Graduate School of Global Environmental Studies, as well as all presenters and participants for organizing and executing such a successful event. The symposium was then officially closed by Shigeo Fujii (Professor, GSGES, Kyoto University) who thanked all participants for their contributions and announced that the next symposium will be held at Mahidol University, Thailand.

3. Symposium Events

3-1. Poster Awards

(19:00-19:15, November 26)

By Kayo Ueda, Associate Professor, GSGES

Approximately 70 poster presentations were given at the symposium. The poster session was a great success with many impressive posters and very active discussions. Best poster awards in three categories (Young researcher, Doctoral student, and Master student) were given based on participants' votes as shown below:

Awardees of Young Researchers (若手研究者部門)

- Wutyi Naing (Kyoto University, Japan): IoT Based Fecal Sludge Management: A proposal to Formalize the Informal Fecal Sludge Emptying Businesses
- Njane Stephen Njehia (Gifu University): Inland Aquaculture-based Helmholtz Resonator for Precise Fish Volume Measurement
- Bounthavy Vongkhamchanh (Champasack University): Effects of Different Levels of Biochar with Brewers' Grain and Ensiled Cassava Root for Fattening Native Cattle in Lao PDR.

Awardees of Doctoral Students (博士課程学生部門)

- Huynh Tan Loi (Kyoto University): Greenhouse Gas Emissions from Blackwater Septic Tank in Tropical Climate Region: A Case Study of Hanoi, Vietnam
- Rina Kristanti (Bogor Agricultural University): The State of Mining Reclamation in East

Kalimantan Forest Areas

- Mariane Schneider (ETH Zurich): Are Unmaintained Sensors Useful to Monitor Wastewater Treatment Plants?

Awardees of Master Students (修士課程学生部門)

- Aswin (Bogor Agricultural Institute): Sustainable Mangrove Ecosystem Management in Taneke Island, Takalar Regency, South Sulawesi Province, Indonesia
- Furusawa Takuya (Kyoto University): Elucidation of Human Resources for Sustainable Rural Function by Using System Dynamics Model
- Ryuichi Watanabe (Kyoto University): Machine Learning-Based Prediction of 2-MIB Outbreak Occurrence and Concentration in a Drinking Water Source

ポスターセッションでは、若手研究者、博士課程学生、修士課程学生の3部門で約70名の発表があり、会場ではポスター発表者と参加者との活発な討議が行われました。ポスターの内容は多岐にわたりましたが、内容・デザインと充実したものが多くありました。ポスター発表について、参加者の投票に基づいて各部門から3人ずつ優秀ポスター賞が選ばれ、同日のレセプションで表彰されました。表彰者は上記の通りです。

3-2. Reception

(18:00-19:30, November 26)

Mari Miyaji, Program-Specific Assistant Professor, GSGES

The reception was held on the night of 26th November, with all participants attending. President Juichi Yamagiwa gave a wide-ranging speech and Vice-president Kitano made a toast. During the dinner, the organizing team expressed their appreciation to all participants and presented souvenirs to the

representatives from all universities that attended the symposium. In addition, a Poster Awards Ceremony was held to reward outstanding poster presentations. Dr. Jakrit Suthakorn, Dean of the Faculty of Engineering, Mahidol University gave the closing remarks as the host of the next symposium in 2020.



University Representatives



Closing Remarks by Dr. Jakrit

3-3. Study Tour

By Wen Liu, Program-Specific Assistant Professor, GSGES

(8:00-17:30, November 28)

The study tour was held on November 28, the last day of the symposium. More than 60 participants joined the tour. The first destination was the South Clean Center of Kyoto, which is a new solid waste incineration plant that started operation in October 2019. Along with the incineration plant, this facility also has two bio-gas fermentation tanks that can process 60 tons of combustible solid waste and produce methane gas to generate 1,000 kW (maximum) of electricity. The participants asked a lot of questions and the staff tried their best to help them understand the technologies applied in this facility. Surprisingly, the chimney was accessible and the participants enjoyed the view over Kyoto City very much.

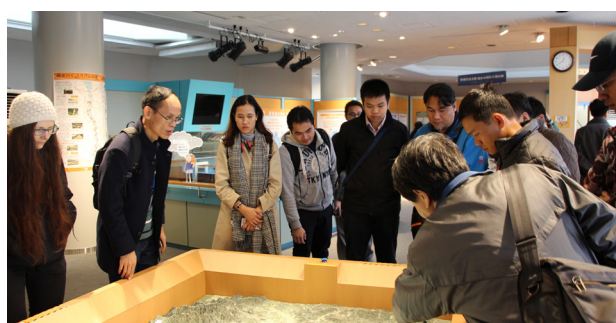
The second site was the Lake Biwa Arai Weir and Aqua Biwa Museum, located near the Seta River Weir. This museum focuses on the water management of Lake Biwa, which is the biggest freshwater lake

in Japan. With the understanding of both the history and modern technology of the water management of Lake Biwa, the subsequent visit to the Lake Biwa Museum was more than sightseeing. The participants enjoyed the demonstrations of the nature and human relationships in the Lake Biwa museum and all became fond of the characteristic culture near the lake. Also, the beautiful aquarium elevated the mood of all participants, as well as taught them a lot about the biological diversities around the lake.

Before entering the highway back to Kyoto, the participants visited a “Michinoeki” in Shiga Prefecture, where shops sell local cheap and fresh agricultural products, snacks and souvenirs - many of them directly from local farmers. As the night falls, the study tour ended with satisfaction and a little bit regrettable feeling about the end of the symposium.



Enjoying Human Power Generation in front of a Model of the Clean Center



Listening to Explanations about the Water Management near Lake Biwa



Group Photo (South Clean Center of Kyoto)



Enjoying Historical Japanese Culture

4. Satellite Programs and Events

4-1. The Second Mahidol On-site Laboratory Workshop

(13:00 – 17:00, November 25)

By Shigeo Fujii, Professor, GSGES

The Second Mahidol On-site Laboratory Workshop was held on November 25, using the opportunity to have 29 participants from Kyoto University and 15 from Mahidol University at the symposium. The first workshop was held at Mahidol University on March 8, 2019 combined with its Kick-off Symposium.

This second workshop consisted of two parts. Part One was a plenary meeting, held in the GSGES large meeting room at Research Building No. 5. Representatives from both universities (in the four research fields; Environmental Engineering, Chemical Engineering, Agriculture and Public Health) introduced their education and research activities. In Part Two, each research field group had an individual program at Katsura Campus (Environmental Engineering, Chemical Engineering) or Yoshida Campus (Agriculture and Public Health). These programs included laboratory visit and discussions on collaborative education and research activities.

The third workshop is planned to be held at Mahidol University in February or March 2020. We expect that collaboration activities between both universities will develop further in the future.

11月25日、第2回マヒドン大学オンサイトラボラトリーワークショップが、京都大学吉田キャンパスおよび桂キャンパスで開催されました。このワークショップは、地球環境学堂提案の「Mahidol 環境学教育・研究拠点」が京都大学 On-site Laboratory として採択されたことを契機に始まったもので、本年3月8日マヒドン大学（タイ）開催の第1回に続くものです。

第2回ワークショップでは、マヒドン大学から Watcharra Chintakovid 副学長補佐、Pornchai Chanyagorn 副工学部長ら15名が出席するとともに、京都大学側から総勢29名の教員が参加しました。ワークショップは、全員が一斉に参加する第一部と、環境工学、化学工学、農学、公衆衛生の4分野に分かれた第二部から構成されました。

第一部は13:00から吉田キャンパス総合研究5号館大会議室で開催され、桂キャンパスのC-312会議室と遠隔会議システム（VCS）とスライド共有ソフトZoomにより遠隔中継されました。出席者全員の自己紹介の後、藤井滋穂 地球環境学堂教授から、オンサイトラボラトリー事業の経緯と概要、これまでの両大学の交流、さらに本ワークショップの趣旨が説明されました。続いて、環境工学、化学工学、農学、公衆衛生の各分野で、京都大学、マヒドン大学の両者から教育・研究の紹介がされました。京都大学は地球環境学堂、工学研究科、農学研究科、医学研究科の4部局、マヒドン大学は工学、公衆衛生、環境



Explanation of Research works in Part One

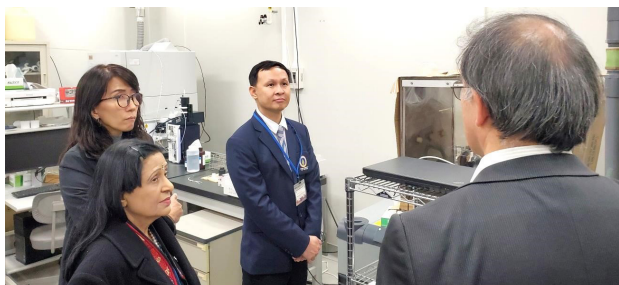


Group Photo of Participants after Part One (in front of the Entrance of Research Building No.5)

資源研究、学際研究の4学部から参加があり、多様な研究分野の関係者が一堂に会し教育研究を討議する機会はそれぞれの大学内でも少なく、貴重な情報交換の場となりました。

第二部、環境工学と化学工学分野は、まず一緒に吉田キャンパスにある地球環境学堂の環境調和型産業論分野と社会基盤親和技術論分野の実験室を見学した後、連絡バスで桂キャンパスに移動しました。環境工学分野では、Nawatch Surinkul 土木環境工学学科長他4名が、西村文武 都市環境工学専攻准教授らの案内のもと、Cクラスターの環境工学共通実験室、環境試料分析装置等を見学し、その後GCOE HSEセンター（Cluster C1-3-182号室）で、米田稔 都市環境工学専攻教授（副研究科長）ら6名の京都大学教員と、研究紹介、研究協力の可能性を討議しました。一方、化学工学分野は、佐野紀彰 化学工学専攻長・教授の案内のもと、Aクラスターの界面制御工学、反応工学、分離工学の3つの研究室を見学した後、化学工学談話室でマヒドン大学側 Sakhon Ratchahat 講師ら2名と京都大学側8名の教員により懇談会が行われました。農学分野は、神崎護 農学研究科教授の案内のもと、Watcharra Chintakovid 助教授ら4名のマヒドン大学の教職員が、農学研究科の生物材料設計学、森林生態学、作物学、森林・人間関係学、森林水文学の5つの研究室の教員から研究内容の紹介をうけ、実験や分析機器を見学し、今後の教育研究での協力や修士課程ダブルディグリープログラムの設置について意見交換

を行いました。さらに、公衆衛生学分野では、原田浩二 医学研究科准教授の案内のもと、環境衛生学実験室と化学物質研究生体試料バンクを見学の後、医学部先端科学研究棟セミナー室でマヒドン大学側 Arthit Phosri 講師ら4名と京都大学側8名による懇談



Laboratory Visit in Environmental Engineering (Ground Floor at C Cluster, Katsura)

会が行われました。

本年度の2-3月には第3回ワークショップがマヒドン大学で実施予定であり、教育・研究の両大学の連携がさらに進むと期待されます。



Laboratory Visit in Public Health

4-2. Katsura Campus Visit by an Engineering Group from Mahidol University, Thailand

(11:00 – 14:30, November 26)

By Fumitake Nihimura, Associate professor, GS Engineering and Shigeo Fujii, Professor, GSGES

A team of representatives from the Faculty of Engineering, Mahidol University, visited Katsura Campus on November 26, under the guidance of Assoc. Prof. Fumitake Nishimura, Department of Environmental Engineering. The team consisted of 9 members, including Pornchai Chanyagorn, Vice-Dean, and the chairs of the three departments Biomedical Engineering, Chemical Engineering and Industrial Engineering. The group visited the Corner of Nobel laureates and Fields Award Winners in Funai Tetsuro Auditorium and then took a commemorative photo in front of the Large-screen Display at the Katsura Monument. After lunch, the group visited laboratory facilities in Environmental Engineering.

11月26日にタイ・マヒドン大学工学部一行が桂キャンパスを訪問されました。訪問者は、Pornchai Chanyagorn 副学部長、Norased Na Songkla 生物医学工学科長、Wanida Koo-amornpattana 化学工学科長、Eakkachai Warinsiruk 生産管理工学科長、Narit Hnoohom コンピュータ工学副学科長ら9名です。一行は、吉田キャンパスで同日から開催された京都大学国際シンポジウムの開会式に参加した後、連絡バスで桂キャンパスに移動しました。西村文武

都市環境工学専攻准教授の案内のもと、船井哲良 記念講堂ノーベル賞・フィールズ賞受賞者展示コーナーを見学し、B クラスター桂モニュメント・大型ディスプレイ前で記念撮影を行いました。昼食後、C クラスターの都市環境工学専攻実験施設を見学しました。その後吉田キャンパスに戻り、京都大学国際シンポジウムに再度参加しました。マヒドン大学とは京都大学 On-site Laboratory「Mahidol 環境学教育・研究拠点」（地球環境学堂）をはじめとした様々な取り組みがなされており、益々の交流・協働とその成果が期待されています。



Commemorative Photo in front of Large-screen Display

4-3. Courtesy Visit to GSGES Dean by Dean of Engineering, Mahidol University

(16:40 – 17:40, November 26)

By Fumitake Nishimura, Associate Professor, GS Engineering and Shigeo Fujii, Professor, GSGES

On the 26th November 2019, the Dean of the Faculty of Engineering and his party from Mahidol University, Thailand, paid a courtesy visit to the Dean of GSGES and discussed collaboration on both education and research in the field of engineering. The party consisted of 13 members from the Faculty

of Engineering, including Dean Jackrit Suthakorn and the chairs of the four departments Biomedical Engineering, Chemical Engineering, Industrial Engineering, and Civil & Environmental Engineering.

Nine professors from GSGES and the Faculty of Engineering, Kyoto University, including the Dean

Prof. Shinya Funakawa and Vice-Dean Prof. Takeshi Katsumi, joined the discussion. The past achievements were noted and future areas of collaboration on education and research in the field of engineering discussed. Gifts were given from Mahidol University and commemorative photographs were taken after the meeting.

The Kyoto University On-site Laboratory on Environmental Studies at Mahidol University, and several other collaborations, have been conducted with Mahidol University. More successful collaborations in the future are expected.

11月26日にタイ・マヒドン大学工学部長一行が地球環境学堂長を表敬訪問し、工学分野での教育・研究の協働について討議しました。訪問者は、Jackrit Suthakorn 工学部長、Pornchai Chanyagorn 工学副部長、Norased Na Songkla 生物医学工学科長、Wanida Koo-amornpattana 化学工学科長、Eakkachai Warinsiriruk 生産管理工学科長、Nawatch Surinkul 土木環境工学科長、Narit Hnoohom コンピュータ工学科副学科長他13名で、吉田キャンパスで開催中の京都大学国際シンポジウム参加の機会を利用しての訪問でした。京大側から

は、舟川晋也 地球環境学堂長、勝見武 副学堂長の他、地球環境学堂工学系教員と工学研究科教員、計9名が参加しました。懇談ではこれまでの双方の交流についても語られ、教育・研究活動の今後の交流・協働促進について意見交換がなされました。最後に、マヒドン大学からの記念品贈呈、写真撮影を行った後、京都大学国際シンポジウムの懇親会に合流しました。

マヒドン大学とは京都大学 On-site Laboratory 「Mahidol 環境学教育・研究拠点」（地球環境学堂）をはじめとし、様々な取り組みがなされています。益々の交流・協働とその成果が期待されています。



Group Photo in front of Clock Tower

4-4. IPB University Rector Arif Satria's Visit to Kyoto University (11:00 – 13:30, November 28)

By Shigeo Fujii, Professor, GSGES

A team from IPB University (Indonesia) visited Kyoto University on November 28. The team consisted of 6 members including Rector Arif Satria, Dean (Graduate School) Anas Miftah Fauzi, and Head (Study Program) Ernani Rustiadi. The team arrived at Kyoto University at 11:00 and visited two laboratories in the Graduate School of Agriculture. Then, they went to the guest room of the Clock Tower Centennial Building and had a meeting with the Executive Vice-president Kayo Inaba, Dean (Agriculture) Akira Murakami, Dean (Global Environmental Studies) Shinya Funakawa, and other Kyoto University members. During the meeting, future collaboration between both universities was discussed, followed by gift exchange and group photos.

インドネシア共和国のIPB大学（旧ボゴール農業大学、昨年IPB大学と改称）Arif Satria学長らが、福岡で開催されたQS-APPLE参加の機会を利用し、2019年11月28日に京都大学を表敬訪問されました。訪問者は、QS-APPLEに出席したArif学長、Anas Miftah Fauzi大学院研究科長（Dean of Graduate School）ら5名と、11月26～28日に吉田キャンパスで開催された京都大学国際シンポジウム—東南アジアにおける地球環境学の展開—（地球環境学堂主幹）に出席中のErnani Rustiadi教育プ

ログラム部長（Head of Study Program）の6名です。

朝、博多を出発したArif学長らは、京都駅でErnan部長と合流の後、京都大学に向かい、11:00頃、農学研究科で神崎護教授らの出迎えを受けた後、飯田訓久教授にフィールドロボテックス分野、近藤直教授に生物センシング分野の研究紹介を受けるとともに、その実験室を訪問されました。

12:00からは、時計台記念館の迎賓室で京都大学本部への表敬訪問がなされました。京都大学からは稲葉カヨ理事、村上章農学研究科長、舟川晋也地球環境学堂長、縄田栄治ASEAN拠点長ら5名が出席するとともに、IPB大学とのダブルディグリー生らIPB大学関係の学生ら6名が陪席しました。この面談では、両大学の教育研究プログラムがそれぞれ紹介されるとともに、今後の交流活発化のための議論が進められました。記念品交換と写真撮影の後、



Meeting with IPB University's Rector Arif

迎賓室で昼食をとりながら懇談を続けました。一行は 13:00 過ぎに次の訪問地である奈良先端科学技術大学院大学へと出発し、京都大学への訪問が終了しました。

IPB 大学とは、海外オフィスの設置（農学研究科、2015 年 11 月 16 日に開所式実施）、ダブルディグリープログラムの実施（地球環境学堂と農学研究科、ともに 2018 年度から）、京都大学国際シンポジウムの実施（2018 年 11 月 30 日～12 月 2 日、地球環境学堂主幹）、山極寿一総長の表敬訪問（2018 年 12 月 1 日）など、これまでも親密な教育・研究の連携を実施してきており、今後もこのような交流がさらに

進展するものと期待されます。



Group Photo (Rector Arif, 5th from left)

4-5. IPB University Visit to GSGES and GSA

(10:00 – 12:00, November 29)

By Shigeo Fujii, Professor, GSGES

A team from the Faculty of Agriculture at IPB University visited Kyoto University on November 29. The team consisted of 6 members including Dean Suwardi, former Dean Ernan Rustiadi, and Vice-Dean Nurhayathi Arifin. The team arrived at GSGES at 10:00 and had a meeting with Dean Shinya Funakawa and the previous Dean Shigeo Fujii. After that, they visited the GSA (Graduate School of Agriculture) Dean's office at 11:00 and had a meeting with Dean Akira Murakami, Vice-Dean Motoki Akitsu, Vice-Dean Kaoru Kitajima, and the previous Dean Eiji Nawata.

11 月 26 ～ 28 日に吉田キャンパスで開催された京都大学国際シンポジウム—東南アジアにおける地球環境学の展開—（地球環境学堂主幹）に出席する機会を利用して、IPB 大学農学部から Suwardi 農学部長、元農学部長の Ernan Rustiadi 教育プログラム部長（Head of Study Program）、京都大学とのクロスアポイント教員の Nurhayathi Arifin 副農学部長ら 6 名が、11 月 29 日に地球環境学堂、農学研究科を表敬訪問されました。

一行は 10:00 に地球環境学堂を訪問され、IPB からの地球環境学舎ダブルディグリープログラム学生 2 名が陪席する中、舟川晋也 地球環境学堂長と藤井

滋穂 教授と会談を行いました。ダブルディグリー一次期候補生の選考状況やプログラムの将来的な課題を議論するとともに、両大学での共同授業の可能性について話し合われました。地球環境学堂は、すでに 2016 年度からタイ・マヒドン大学、ベトナム・ハノイ理工大学と同時遠隔講義をしていることが説明され、IPB 大学も参画を検討することとなりました。

つづいて、11:00 から農学研究科を訪問されました。農学研究科では、村上章 農学研究科長、秋津元輝 副研究科長、北島薫 副研究科長、縄田栄治 教授・ASEAN 拠点所長が対応しました。農学研究科と IPB は、IPB 内への京都大学サテライトオフィス設置、ダブルディグリープログラムやクロスアポイントメント制度の導入、短期交流プログラムでの学生受入れ等、様々な活動を通して長年に渡り交流を深めてきました。今回の会談では、Suwardi 農学部長から、さらに農学研究科との交流を深めていきたいとの意向が表明され、京大側もこれに同意しました。その他に、IPB の若い研究者を農学研究科に派遣したいという要望や、より多くの学生を受入れ・派遣したいという希望が IPB 側から示されました。表敬訪問の後の昼食会では、日本とインドネシアにおける森林管理等について活発な議論がなされ、終始和やかな雰囲気の中、会談は終了しました。



Group Photo at GSGES



Group Photo at GSA

京都大学大学院地球環境学堂・地球環境学舎・三才学林 広報誌

SANSAI 第 27 号
Newsletter

2020 年（令和 2 年）3 月 15 日発行

編集 ● 京都大学大学院地球環境学堂三才学林
広報部会 SANSAI Newsletter 担当
鬼塚健一郎・Baars Roger

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SANSAI Newsletter is accessible on GSGES HP.

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