



7th INTERNATIONAL CONFERENCE ON
SUSTAINABLE ENERGY AND ENVIRONMENT
"Technology & Innovation for Global Energy Revolution"

28-30 November 2018, Chatrium Hotel Riverside Bangkok, Thailand

สัญญาเลขที่ RUG6230001

สรุปผลการจัดประชุม

โครงการ “การจัดประชุมวิชาการนานาชาติ ครั้งที่ 7
เรื่อง Sustainable and Environment (SEE 2018)”
The 7th International Conference on Sustainable Energy
and Environment (SEE2018)

โดย

บัณฑิตวิทยาลัยร่วมด้านพลังงานและสิ่งแวดล้อม
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี

**The 7th International Conference on Sustainable Energy and Environment (SEE 2018):
Technology & Innovation for Global Energy Revolution**

28-30 November 2018 at Chatrium Hotel Riverside Bangkok, Thailand

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1. List of Committees

International Advisory Committee

Chairpersons:

Prof. Naksitte Coovattanachai	Thailand
Prof. Keiichi Ishihara	Japan

Members:

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Dr. Philippe Girard	France
Prof. Christoph Menke	Germany
Prof. Frank Shultmann	Germany
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Prof. Norbert Fisch	Germany
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Dr. Kazuyuki Yagi	Japan
Prof. Kouichi Miura	Japan
Prof. Yoshikazu Nishikawa	Japan
Prof. Atsushi Inaba	Japan
Prof. Hamdani Saidi	Malaysia
Prof. Ralph Sims	New Zealand
Dr. Seeram Ramakrishna	Singapore
Dr. Krissanapong Kirtikara	Thailand
Dr. Sakarindr Bhumiratana	Thailand
Prof. Morakot Tanticharoen	Thailand
Prof. Tanongkiat Kiatsiriroat	Thailand
Dr. Thumrongrut Mungcharoen	Thailand
Prof. Anthony Bridgwater	UK
Prof. Monique Y. Leclerc	USA

Organizing Committee

Chairpersons:

Dr. Suneerat Fukuda	JGSEE
Prof. Hideaki Ohgaki	Kyoto U.

Members:

Dr. Annat Chidthaisong	JGSEE
Dr. Athikom Bangviwat	JGSEE
Dr. Kasemsan Manomaiphiboon	JGSEE
Dr. Komsilp Wangyao	JGSEE
Dr. Nakorn Worasuwanarak	JGSEE
Dr. Pipat Chaiwiwatworakul	JGSEE
Dr. Thapat Silalertraksa	JGSEE
Dr. Sate Sampattagul	CMU
Dr. Warinthorn Songkasiri	KMUTT
Dr. Pomyos Vallikul	KMUTNB
Dr. Sumate Chaiprapat	PSU
Dr. Alice Sharp	SIIT

Secretariat:

Dr. Savitri Garivait	JGSEE
Ms. Kulakarn Soontornwat	JGSEE

Technical Committee

Chairpersons:

Dr. Bundit Fungtammasan	Thailand
Prof. Takashi Sagawa	Japan

Members:

Prof. Sankar Bhattacharya	Australia
Prof. Ian O'Hara	Australia
Prof. Reinhard Haas	Austria
Dr. Amela Ajanovic	Austria
Prof. Meigen Zhang	China
Prof. Wen Chen	China
Prof. Yong Chi	China
Dr. Steen Solvang Jensen	Denmark
Prof. Bernard Porterie	France
Dr. Patrick Rousset	France
Prof. Mirko Barz	Germany
Prof. Ralf Conrad	Germany
Dr. Robert Himmler	Germany
Dr. Werner Siemers	Germany
Dr. Amit Garg	India
Prof. Virendra Kumar Vijay	India
Prof. Iman K. Reksowardojo	Indonesia
Prof. H. M. Djoni Bustan	Indonesia
Prof. Ir. P. Purwanto	Indonesia
Prof. Rizaldi Boer	Indonesia
Prof. Udin Hasanudin	Indonesia
Prof. Daisuke Komori	Japan
Dr. Tomonari Ishigaki	Japan
Dr. Masato Yamada	Japan
Dr. Mikiko Kainuma	Japan
Prof. Tetsuo Tezuka	Japan
Prof. Toshihiko Masui	Japan
Dr. Yuki Kudoh	Japan
Prof. Dong-Hoon Lee	Korea
Dr. Marlia Mohd Hanafiah	Malaysia
Prof. Ho Chin Siong	Malaysia
Prof. Nasrudin B.A. Rahim	Malaysia
Prof. Ram M. Shrestha	Nepal
Dr. Tinus Pulles	Netherlands
Dr. Andrew McMillan	New Zealand
Prof. Louis Danao	Philippines
Dr. Rizalinda de Leon	Philippines
Prof. S.K. Chou	Singapore
Prof. Jinyue Yan	Sweden
Dr. Apichit Therdyothin	Thailand
Dr. Boonrod Sajjakulnukit	Thailand
Dr. Chumnong Sorapipatana	Thailand
Prof. Navadol Laosiripojana	Thailand
Dr. Pattana Rakkwamsuk	Thailand
Prof. Robert H.B. Exell	Thailand
Dr. Sermkiat Jomjunyong	Thailand
Prof. Serm Janjai	Thailand
Prof. Shabbir H. Gheewala	Thailand
Dr. Shobhakar Dhakal	Thailand
Dr. Sirintornthep Towprayoon	Thailand
Prof. Somchai Wongwises	Thailand
Dr. Somrat Kerdswan	Thailand
Prof. Sumrerng Jugjai	Thailand
Prof. Surapong Chirarattananon	Thailand
Prof. Larry Anderson	USA
Prof. Ashwani Kumar Gupta	USA
Dr. Pham Houng Luong	Vietnam

Secretariat:

Dr. Sebastien Bonnet	Thailand
Ms. Siriya Senecwongse Na Ayudthaya	Thailand

2. Conference Programme

28 November 2018

8.30-9.30	On-site Registration		
	OFFICIAL OPENING CEREMONY at Chatrium Ballroom		
9.30-10.00	Welcome Remarks by the Co-chairperson of the Organizing Committee, <i>Dr. Suneerat Fukuda</i>, Thailand Welcome remarks by the Co-chairperson of the Organizing Committee, <i>Prof. Hideaki Ohgaki</i>, Japan Welcome Remarks by the Co-chairperson of the International Advisory Committee, <i>Prof. Naksitte Coovattanachai</i>, Thailand Welcome & Opening Addresses by <i>Dr. Bundit Fungtammasan</i>, Senior Vice President for Research and Innovation of KMUTT, Thailand		
10.00-10.30	GROUP PHOTO and COFFEE BREAK		
10.30-12.30	PLENARY KEYNOTE SESSION at Chatrium Ballroom Chairpersons: <i>Dr. Savitri Garivait</i> and <i>Prof. Christoph Menke</i>		
10.30-11.00	Renewable Energy Technology: Current Status of Technology Penetration and its Challenge <i>Dr. Shigeru Niki</i>, National Institute of Advanced Industrial Science and Technology, Japan		
11.00-11.30	Thailand's Environment 4.0 to Meet 2030 UN SDGs and EEC Development <i>Dr. Wijarn Simachaya</i>, Permanent Secretary, Ministry of Natural Resources and Environment, Thailand		
11.30-12.00	Transforming Thailand: The Shift to a Sustainable Bioeconomy <i>Prof. Morakot Tanticharoen</i>, King Mongkut's University of Technology Thonburi, Thailand		
12.00-12.30	Need for Smart Grid Solutions for a Sustainable Energy Future and to Mitigate Climate Change <i>Prof. Juergen Bender</i>, Bender-IS Co., Ltd, Thailand		
12.30-14.00	LUNCH (at River Barge Restaurant) + EXHIBITION and POSTER (at River 1)		
14.00-15.30	PARALLEL SESSIONS		
	Room: Ravipa 1	Room: River 3	Room: River 2
	Chairperson: <i>Prof. Ralf Conrad</i>	Chairperson: <i>Dr. Sumate Chairaprat</i>	Chairperson: <i>Prof. Kouichi Miura</i>
	TOPIC F Environmental and Climate Science, and Mitigation Technology	TOPIC A Bioenergy and Biofuels (<i>Special BBB Session</i>)	TOPIC C Other Energy Conversion Technologies (<i>Special SATREPS Session</i>)
15.30-16.00	COFFEE BREAK		
16.00-17.30	PARALLEL SESSIONS		
	Room: Ravipa 1	Room: River 3	Room: River 2
	Chairperson: <i>Prof. Shabbir H. Gheewala</i>	Chairperson: <i>Dr. Pomyos Vallikul</i>	Chairperson: <i>Dr. Nakorn Worasuwannarak</i>
	TOPIC F Environmental and Climate Science, and Mitigation Technology	TOPIC A Bioenergy and Biofuels	TOPIC C Other Energy Conversion Technologies (<i>Special SATREPS Session</i>)
18.00-21.00	WELCOME DINNER AND CELEBRATION OF 20 th ANNIVERSARY OF JGSEE		

29 November 2018

8.00-9.00	On-site Registration			
9.00-10.30	PLENARY KEYNOTE SESSION at Chatrium Ballroom Chairpersons: <i>Prof. Navadol Laosiripojana</i> and <i>Prof. Takashi Saganwa</i>			
9.00-9.30	A Key Role for Shared Pilot Facilities to Accelerate Developments in the Bioeconomy <i>Dr. Frederik De Bruyn</i> , Bio Base Europe Pilot Plant, Belgium			
9.30-10.00	Biomass Upgrading for High Quality Fuels and Value Added Products <i>Prof. Kouichi Miura</i> , Institute of Advanced Energy, Kyoto University, Kyoto, Japan			
10.00-10.30	Biomass Torrefaction for Sustainable Biochar Production and its Applications <i>Prof. Wei-Hsin Chen</i> , Department of Aeronautics and Astronautics, National Cheng Kung University, Taiwan			
10.30-11.00	COFFEE BREAK			
11.00-12.30	PARALLEL SESSIONS			
	Ravipa 1	Ravipa 2	River 3	River 2
	Chairperson: <i>Dr. Sirintornthep Towprayoon</i>	Chairperson: <i>Prof. Christoph Menke</i>	Chairperson: <i>Dr. Athikom Bangviwat</i>	Chairperson: <i>Prof. Wei-Hsin Chen</i>
	TOPIC F: Environmental and Climate Science, and Mitigation Technology <i>(Special CTI Session)</i>	TOPIC A Bioenergy and Biofuels	TOPIC E Energy and Environmental Policy	TOPIC C: Other Energy Conversion Technologies
12.30-14.00	LUNCH (at River Barge Restaurant) + EXHIBITION and POSTER (at River 1)			
14.00-15.30	PARALLEL SESSIONS			
	Ravipa 1	River 3		River 2
	Chairperson: <i>Dr. Kazuyuki Yagi</i>	Chairperson: <i>Prof. Robert Exell</i>		Chairperson: <i>Dr. Noriyuki Okuyama</i>
	TOPIC F Environmental and Climate Science, and Mitigation Technology	TOPIC B Renewable Energy and Smart Energy Systems		TOPIC A Bioenergy and Biofuels <i>(Special SATREPS Session)</i>
15.30-16.00	COFFEE BREAK			
16.00-17.30	PARALLEL SESSIONS			
	Ravipa 1	River 3		River 2
	Chairperson: <i>Dr. Sebastien Bonnet</i>	Chairperson: <i>Prof. Robert Exell</i>		Chairperson: <i>Dr. Ryuichi Ashida</i>
	TOPIC F Environmental and Climate science, and Mitigation Technology	TOPIC B Renewable Energy and Smart Energy Systems		TOPIC A Bioenergy and Biofuels

30 November 2018

8.00-9.00	On-site Registration			
9.00-10.30	PLENARY KEYNOTE SESSION at Chatrium Ballroom Chairpersons: <i>Dr. Suneerat Fukuda</i> and <i>Prof. Hideaki Ohgaki</i>			
9.00-9.30	Renewable Energy-Mineral Nexus: Resource Availability <i>Prof. Keiichi Ishihara, Kyoto University, Japan</i>			
9.30-10.00	E-waste Management Practices towards SDGs in SEA <i>Dr. Mushtaq Memon, UN Environment</i>			
10.00-10.30	Using Life Cycle Thinking to Promote Sustainability in Emerging Economies <i>Prof. Shabbir H. Gheewala, King Mongkut's University of Technology Thonburi, Thailand</i>			
10.30-11.00	COFFEE BREAK			
11.00-12.30	PARALLEL SESSIONS			
	Chatrium Ballroom	The Curve (Mezzanine Floor)	River 3	River 2
	SYMPOSIUM	Chairperson: <i>Dr. Sate Sampattagul</i>	Chairperson: <i>Prof. Surapong Chirarattananon</i>	Chairperson: <i>Dr. Patrick Rousset</i>
	STI for Sustainable Development Goals: How Can We Transfer the ASEAN-Japan Collaboration Research Outcomes in Bioenergy Field?	TOPIC F Environmental and Climate Science, and Mitigation Technology	TOPIC D Energy Efficiency (<i>Special SUDI Session</i>)	TOPIC A Bioenergy and Biofuels
12.30-13.30	LUNCH (at River Barge Restaurant) + EXHIBITION and POSTER (at River 1)			
13.30-15.00	PARALLEL SESSIONS			
	Chatrium Ballroom	The Curve (Mezzanine Floor)	River 3	River 2
	SYMPOSIUM	Chairperson: <i>Prof. Tetsuo Tezuka</i>	Chairperson: <i>Dr. Pipat Chaiwiwatworakul</i>	Chairperson: <i>Dr. Pierre Joulain</i>
	STI for Sustainable Development Goals: How Can We Transfer the ASEAN-Japan Collaboration Research Outcomes in Bioenergy Field?	TOPIC F Environmental and Climate Science, and Mitigation Technology	TOPIC D Energy Efficiency	TOPIC A Bioenergy and Biofuels
15.00-16.00	PAPER AWARD AND CLOSING CEREMONY at Chatrium Ballroom			

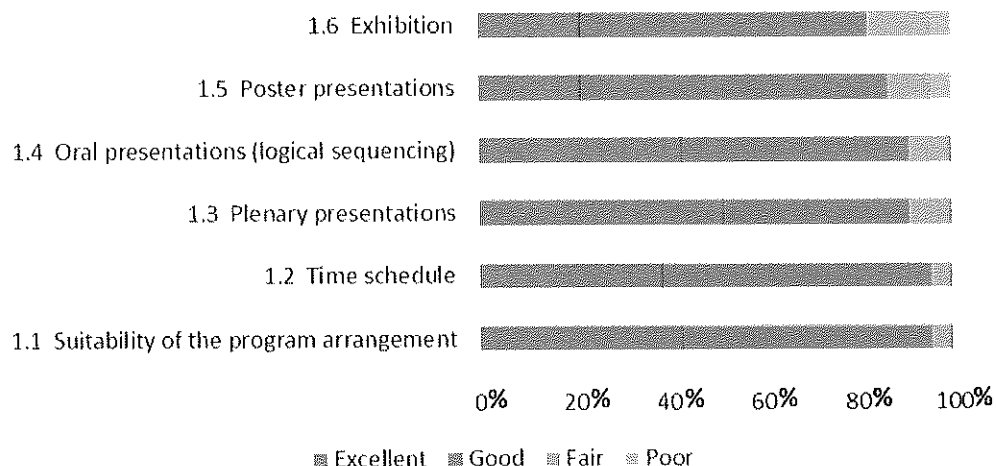
3. Summary of SEE 2018 participants

	Thailand	Foreigner	Total
SEE Conference	154	51	205
- VIP + Keynote speakers	9	8	17
- Participant (Author + Participant only)	109	39	148
- Chairperson	12	4	16
- Staff (organizer)	24	0	24

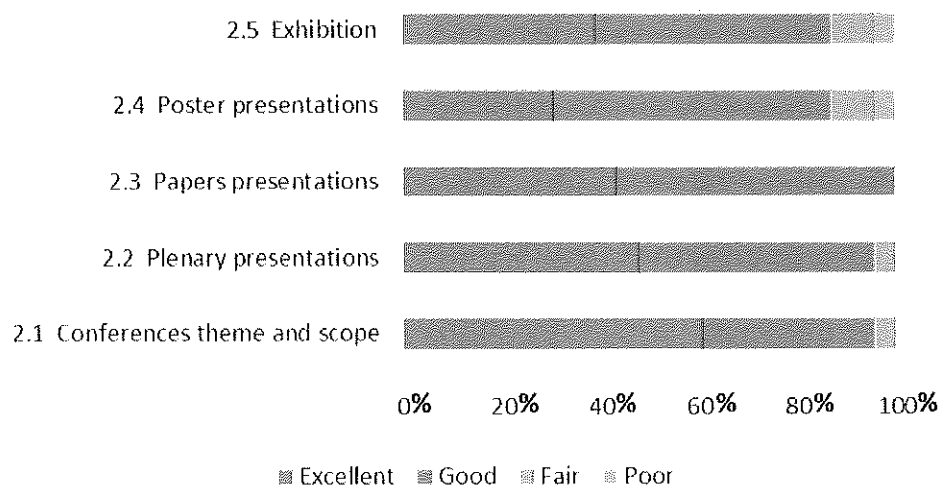
Participant (Author + Participant only)	Persons	VIP + Keynote speakers	Persons	Chairperson	Persons	Organizer	Persons
France	1	Belgium	1	France	1	Thailand	24
Germany	3	France	1	Japan	3		
Indonesia	1	Japan	4	Thailand	12		
Japan	25	Taiwan	1				
Myanmar	1	Thailand	9				
New Zealand	1	UN Environment	1				
Sweden	1						
Switzerland	1						
Taiwan	2						
Thailand	109						
United Kingdom	1						
Vietnam	2						

4. Summary of evaluation by delegates

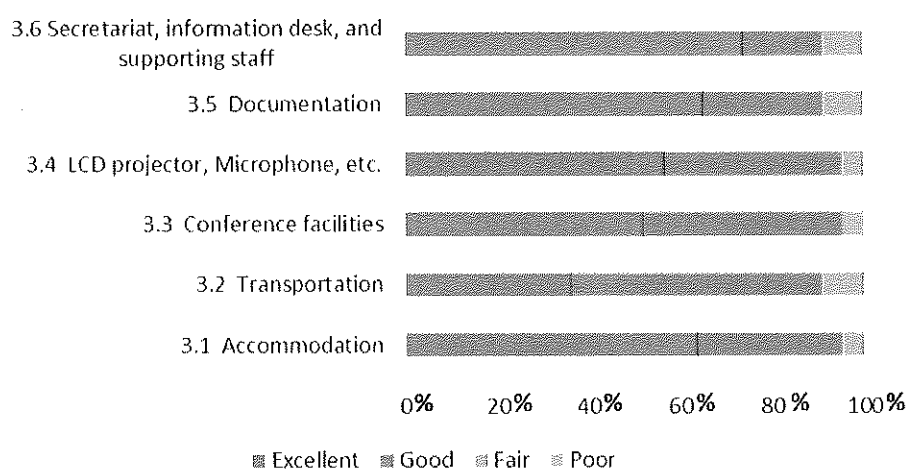
1. Organization



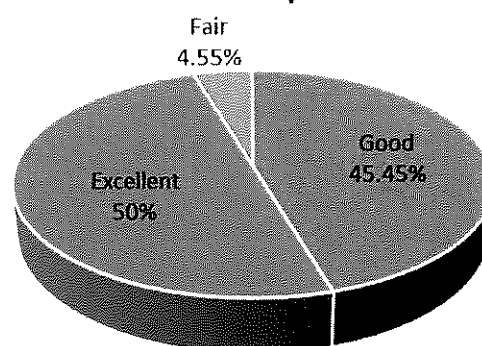
2. Scientific contents



3. Facilities



Overall Impression



Comments & Recommendations

- Should use the break-out room in the same area or on the same floor
- Exhibition should be in the same floor to conference, as on difference floor caused the participant do not know that there is the exhibition. There is not enough time for coffee break to see the exhibition.
- Should improve the registration and giving badge for more convenient and quicker
- The exhibition room is relatively inaccessible
- The staff was so helpful in guiding others.

5. Overview of the plenary sessions

Over the 3 days of this event, the conference featured 10 prominent scientists, all well recognized internationally, as keynote speakers. The keynotes were delivered over 3 plenary sessions; one on each day of the conference prior to the technical sessions. This was another outstanding highlight and achievement of SEE 2018 which was praised by many participants. A summary of the profile of the keynotes and topics are reported below.



Dr. Shigeru Niki

National Institute of Advanced Industrial Science and Technology, Japan

Keynote Talk: Renewable Energy Technology: Current Status of Technology Penetration and its Challenge



Dr. Wijarn Simachaya

Permanent Secretary, Ministry of Natural Resources and Environment, Thailand

Keynote Lecture: Thailand's Environment 4.0 to Meet 2030 UN SDGs and EEC Development



Prof. Morakot Tanticharoen

King Mongkut's University of Technology Thonburi, Thailand

Keynote Talk: Transforming Thailand: The Shift to a Sustainable Bioeconomy



Prof. Juergen Bender

Bender-IS Co., Ltd, Thailand

Keynote Talk: Need for Smart Grid Solutions for a Sustainable Energy Future and to Mitigate Climate Change



Dr. Frederik De Bruyn

Bio Base Europe Pilot Plant (BBEPP), Belgium

Keynote Talk: A Key Role for Shared Pilot Facilities to Accelerate Developments in the Bioeconomy



Prof. Kouichi Miura

Kyoto University, Japan

Keynote Talk: Biomass Upgrading for High Quality Fuels and Value Added Products



Prof. Wei-Hsin Chen

Cheng Kung University, Taiwan

Keynote Talk: Biomass Torrefaction for Sustainable Biochar Production and its Applications



Prof. Keiichi Ishihara

Kyoto University, Japan

Keynote Talk: Renewable Energy-Mineral Nexus: Resource Availability



Prof. Shabbir H. Gheewala

The Joint Graduate School of Energy and Environment, Thailand

Keynote Talk: Using life Cycle Thinking to Promote Sustainability in Emerging Economies



Dr. Mushtaq Memon

UN Environment

Keynote Talk: E-Waste Management Practices towards SDGs in SEA

ภาพบรรยากาศงาน



