

APEC

Advanced Biohydrogen and Green Growth Newsletter

APEC Meetings and Events

§ 43rd APEC ISTWG Meeting §

August 21-23, 2012

Chinese Taipei

“The 3rd Innovation Policy Dialogue (IPD), organized by Japan, was held on August 21, 2012 in Chinese Taipei, under the theme “Responses to the Global Mobility of S&T Human Resources”. The dialogue included participants from the OECD and private sector organizations. In the IPD discussions, participants recognized that human capital is the essence of innovation and stressed the importance of reinforcing policy measures to develop and secure human resources who are able to support science and technology innovation. Under the ISTWG, the group held its 43rd meeting in Taipei, Chinese Taipei on August 21-23, 2012. At the meeting, the four ISTWG subgroups reviewed ongoing and new projects” – they include 4 sub-groups namely, Subgroups A, B, C, D.

The *subgroup A* focused and chaired by “Human Resource Development,” chaired by Korea, besides, this sub group discussed about the “APEC Science Youth Festival”, 2012 APEC research and technology (ART) program, APEC S&T mentoring center for the gifted in science, given by Korea. A seminar given by Russian Economy entitled “Development of engineering professionals in APEC economies” and Education and Training to support Nuclear Power Program for APEC Economies (Malaysia).

The *subgroup B* chaired by Chinese Taipei as “International Science and Technology Network” and discussed topics are as follows; “APEC workshop on global warming gas (PFCs) reduction for electronics industry”, “Low Carbon Intelligent Operations for Textile Industry in APEC Economies”, “Green energy demonstration system of biological technology for APEC”, “Promotion of a multilateral research oriented at innovative growth of the APEC economies” by Russia and “APEC cooperative forum on internet of vehicles (IOV) and its application implementation worldwide” by China.

The *subgroup C* chaired by the USA and titled as “Connecting Research and Innovations” and covered the sessions as “APEC network building-applied space technology centers (Russia), APEC Smart City Industrial Technology Cooperation Forum (China), APEC workshop on innovative service chain based on information technology (China)”.

The *subgroup D*, “Technological Cooperation and Strategic planning,” chaired by China and focused on the themes as “Harnessing and Using Climate Information for Decision-making in Agriculture (Korea), APEC research center for typhoon and society (Chinese Taipei), APEC virtual center for environmental technology exchange (APEC-VC) (Korea), Climate change adaptation in the Asia-pacific (United States), APEC center for technology foresight (Thailand).

The food security, climate change, energy security, interlinked challenges, and green growth for the APEC region.

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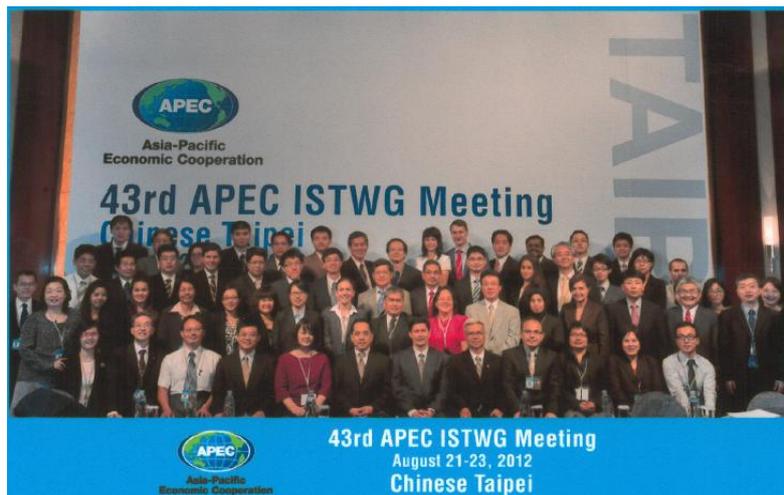
Conclusions

Based on the above broad presentation with short discussions, member economies shared the basic idea of each session's result on the following attributes:

- **Development of human resources who bear innovation**
- **Improvement of human resources mobility between industry and public research institutions, including universities**
- **Establishment of R&D environments that are open to the world**
- **Reinforcement of the international network for human resources/researchers**
- **Supporting overseas research of young researchers**
- **Establishing rules for intellectual property protection to promote international cooperation**

Adapted from:

<http://www.apec.org/Groups/SOM-Steering-Committee-on-Economic-and-Technical-Cooperation/Working-Groups/Policy-Partnership-on-Science-Technology-and-Innovation.aspx>



43rd APEC ISTWG Meeting on August 21-23, 2012

Editorial

§ APEC Steering Committee Meeting on Green Growth §

APEC (Asia Pacific Economic Co-operation) economies are significantly contributing technologies and promotions towards the green growth in recent years. In order to highlight the activities done, Feng Chia University organized the “APEC steering committee meeting” which was held during August 27, 2012 at Green energy Development center, Feng Chia University, Taichung, Chinese Taipei. This meeting focused on the “green growth” in APEC economies especially Singapore, Korea, Chinese Taipei and Japan. A sum of about 16 speakers attended this meeting from Korea, Japan, Taiwan, Singapore and Germany.

The implemented ideas and promotions already in action were discussed in the sessions of this meeting including INPEX's (Worldwide Oil & Gas Exploration and Production Company) activities. Welcome note was addressed by Prof. Chiu-Yue Lin (Feng Chia University Chinese Taipei). The keynote speech was given by Dr. Tatsuki Wakayama (INPEX Corporation, Japan). The invited speakers were Prof. Hang-Sik Shin (KAIST, Korea), Prof. Herbert H.P. Fang (University of Hog Kong, China), Prof. Jing-Yuan Wang (Nayang Technological University, Singapore), Prof. Keng Teng Wu (APEC EGNRET SECRETRAIT, Chinese Taipei), Prof. SS

Cheng (National Cheng Kung University, Chinese Taipei), Prof. SY Wu (Feng Chia University Chinese Taipei), Dr. Mi-Sun Kim (KIER, Korea), Prof. Wen-Chien Kuo (Pingtung University of Science and Technology, Chinese Taipei), Prof. SY Wu (Feng Chia University, Chinese Taipei), Prof. Wolfgang Pfeiffer (Technical College of Wismar, Germany), Mr. Kazuyuki Nakamura (Swing Corporation, Japan), Mr. Toshihiko Kobayashi (Swing Corporation, Japan), Mr. Ryoji Inomata (Obayashi Corporation, Japan) and Mr. Edwin TF Khew (Waztec Pte Ltd, Singapore). The meeting was moderated by Prof. Chen-Yeon Chu (Feng Chia University, Chinese Taipei).

Prof. Chiu-Yue Lin presented a topic “Green energy demonstration system of biological technology for APEC” a self-funded project to industrial science and technology working group (ISTWG), in which the development and delivery of multi stage green energy demonstration (MSGED) system, organizing steering committee meeting and workshop, and the visiting and exchange program between the APEC economies were highlighted.

Dr. Tatsuki Wakayama spoke about the “Bridge to the green growth through INPEX’s Bioactivities” where he emphasized on expanding upstream business stream in Asia and Oceania, renewable energy through INPEX’s bioactivities and finally concluded with the INPEX’s assents with Asian countries.

Prof. Hang-Sik Shin put forth a topic “Overview of Korea’s national strategy for green growth”, provided information regarding the key aspects of national strategy

which covered climate change, energy efficiency, renewable and nuclear energy, transport and fuel efficiency, water and ecological infrastructure. He also mentioned about the Korea’s GHG mitigation target and agreement between government and large energy consuming parties.

Prof. Jing-Yuan Wang dealt with an area of “A decentralized urban Resource recovery (DUR2) system” which focused on the topics of issues of current waste management and communities as renewable resource recovery center (CRP/NRF), they were put together to build “A decentralized urban resource recovery system”. The concept of this system is divided into 2 parts such as separation of material stream which targets mainly the brown, yellow water separation, recovery and reuse of nutrients, minimization of waste, then conversion of recovered materials to useful resources which aims biogas to energy, residues to compost or fertilizer. He discussed about the no-mix toilet and vacuum system as a demonstrative step of nutrient recovery.

Prof. Keng-Teng Wu presented a speech on “Update of promoting renewable energy in Chinese Taipei” which consolidated the topics on new energy policy in Chinese Taipei, Aggressive RE installation capacity targets, million solar roof top PVs program, thousand wind turbines promotion program. He provided a detail of number of renewable energy promoting technologies such as wind turbines, solar panels, photovoltaic cells and their installment options. The concluding remarks of this meeting also discussed like an open forum among the representatives.

Special Column

§ The 2012 APEC Steering Committee Meeting on Green Growth and Short-Term Training Course on Green Energy Technology §

August 27-29, 2012

Chinese Taipei

The 2012 APEC Steering Committee Meeting on Green Growth was held on August 27, 2012 at Feng Chia University, Taichung, Chinese Taipei. A total of 16 participants from 15 APEC members and 1 non-APEC member attended the meeting. We were privileged to have 1 distinguished keynote speakers from Japan, and 15 invited speakers from China, Chinese Taipei, Germany, Korea, Japan, and Singapore. Keynote speakers and invited speakers delivered presentation on the green growth in his/ her country. In the plenary discussion, there were a lot of significant and interesting discussions.



2012 APEC Steering Committee Meeting on Green Growth

The 2012 APEC Short-term Training Course on Green Energy Technology was held at Feng Chia University, Taichung, Chinese Taipei on August 27-29. A total of 37 students from Chinese Taipei, China, India, Japan, Philippines, Singapore, Finland, and Vietnam participated in the course. On August 27-28, we invited outstanding lecturers to deliver different lectures in green energy field. The last day was the technical tour in Taichung City. All participants gained significant ideas and knowledge in the area of green energy technology.



2012 APEC Short-Term Training Course on Green Energy Technology



Technical tour in Taichung Gateway District