

SEED-Net *News*

Quarterly Newsletter of the ASEAN University Network/Southeast Asia Engineering Education Development Network



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AUN/SEED-Net Plans for Contribution to Engineering Education, Industry, and Researches on Global Issues

Stakeholders of the AUN/SEED-Net Project conferred on the future plan, which would aim to develop engineering human resources for educational and industrial advancement along with joint researches on global issues. The tentative plan was introduced at the 18th Steering Committee Meeting and Year 2011 Annual Meeting in Phnom Penh on October 21, 2011.

Hosted by Institute of Technology of Cambodia (ITC) and AUN/SEED-Net Secretariat, the 18th Steering Committee Meeting and Year 2011 Annual Meeting was chaired by ITC Director General H.E. Dr. Om Romny. Over 60 delegates included executive personnel of 19 member institutions in ASEAN, Chairman of Japanese Supporting University Consortium, representatives from Japan International Cooperation Agency (JICA), ASEAN University Network, ASEAN Foundation as well as AUN/SEED-Net Secretariat. Presided at the opening ceremony were H.E. Dr. Phoeung Sackona, Secretary of State, Ministry of Education, Youth, and Sports of Cambodia; H.E. Mr. Masafumi Kuroki, Ambassador Extraordinary and Plenipotentiary of Japan to Cambodia; and Ms. Nobuko Kayashima, Director General, Human Development Department of JICA.



The participants extensively discussed the future of the AUN/SEED-Net Project after the end of the current phase in March 2013, taking into consideration the advice from JICA Advisory Committee for the AUN/SEED-Net Project that the ASEAN region faced main problems in higher demand for human resource development for industry, lack of practical studies to address global issues, and brain drain to other regions. Finally, they agreed in principle that the future phase should focus on contribution to industrial advancement in the region, joint researches that address global and common issues, and continued effort to strengthen capacity of the member institutions and narrow the development gap in the region through establishment of a platform for promotion of science and technology. They also agreed to put stronger attempts to promote the Doctoral Degree Sandwich Program, one of AUN/SEED-Net's core programs offered by host institutions in ASEAN with co-supervision of Japanese professors.

More discussion on the future plan would be required at the meeting next year in Indonesia, to be hosted by Institut Teknologi Bandung.

Collaborations in Energy Area Bloom

Collaboration in new and renewable energy between Sustainable Energy and Environment (SEE) Forum and AUN/SEED-Net was strongly motivated at the 4th Regional Conference on New and Renewable Energy (RC-NRE). AUN/SEED-Net would focus on research for education while SEE Forum on research for application. Besides, new collaboration between Nanyang Technological University and University of the Philippines-Diliman in ocean energy was initiated.

The RC-NRE was held on October 12-13, 2011 by Ho Chi Minh City University of Technology. Around a hundred attendants paid high attention to keynote lectures given by Japanese and ASEAN professors. Forty papers were published under diverse themes of internal combustion engine, alternative fuels, solar energy, wind energy, thermal engineering, policy and others.

The next RC-NRE will be arranged jointly by SEE Forum and AUN/SEED-Net in late September 2012 in Hanoi.



Researches and Papers on Disaster Mitigation Encouraged

At the 4th Regional Conference on Disaster Mitigation (DM) taking place on October 25-26, 2011 in Phuket, Gadjah Mada University (UGM), main facilitator of the DM area, encouraged research collaboration and papers from member institutions for Special Research Program for Disaster Prevention and Mitigation as well as Japanese Professor Dispatch Program supported by AUN/SEED-Net. UGM also called for more papers in this area to be published in the ASEAN Engineering Journal and committed to encourage UGM students to submit at least one paper each year.

The conference was held by Chulalongkorn University with 55 participants. There were one invited paper from Department of Mineral Resources of Thailand, seven from keynote speakers, and 29 other papers. After the conference, an excursion to several geological sites affected by the 2004 Indian Ocean Tsunami was made.

University of the Philippines-Diliman will host the next DM conference in October 2012.



Enrolment Period for ICT Students Change

King Mongkut's Institute of Technology Ladkrabang (KMITL), the host of Information and Communication Technology (ICT) field, announced the change of enrolment period for AUN/SEED-Net students so as to facilitate students from other countries whose academic year is different from Thailand. From academic year 2012 onwards, new scholars would enroll only in the 2nd semester in November.

The announcement was made at the 4th Regional Conference in ICT organized by Ho Chi Minh City University of Technology on October 17-18, 2011. Over 60 persons attended the conference. There were lectures given by keynote speakers from Tokai University, Toyohashi University of Technology, and Renesas Design Vietnam Co., Ltd. plus 21 paper presentations.



KMITL welcomed proposals for the next conference organizing from other member institutions until the end of 2011.

Joint Courses in Mining & Minerals among ASEAN Proposed

"ASEAN Minerals Engineering Course" by Universiti Sains Malaysia (USM), Chulalongkorn University (CU), Gadjah Mada University (UGM), and University of the Philippines-Diliman (UP) and "Training for Trainers Course in Mining and Minerals Processing" for staff from Cambodia, Laos, and Vietnam by CU and USM were proposed for the future phase of AUN/SEED-Net at the 4th Regional Conference on Natural Resources and Materials (RCNRM) on October 27-28, 2011.

The RCNRM was organized by UP and Society Metallurgical Engineers of the Philippines (SMEP) in conjunction with the 2nd International Conference on Natural Resources and Materials (ICNRM) and SMEP Metallurgical Conference (MetCon) 2011 with the theme "Minerals, Metals and Materials: Bridging the Gap to Economic Development". They attracted as many as 180 participants including those from industry, with 63 papers presented.



The next RCNRM will be arranged by USM around November 2012.

ASEAN Symposium on Automatic Control

On November 8-9, 2011 the 4th Regional Conference in Electrical & Electronics Engineering titled the ASEAN Symposium on Automatic Control 2011 (ASAC2011) was organized in conjunction with the International Symposium on Electronics & Electrical Engineering (ISEE) by Ho Chi Minh City University of Technology. There were 42 participants in the ASAC plus 48 in the ISEE, including some from France and South Korea. Twenty-eight papers were presented in different sessions. The ASAC participants also discussed how to strengthen collaboration and network such as organizing conferences or symposiums, inviting lecturers by the use of AUN/SEED-Net programs, etc.

The next conference in September 2012 which is the last in AUN/SEED-Net's Phase II would be titled "The International Conference on Advanced Information and Systems", to be held back to back with the International Symposium on Multimedia and Communication Technology (ISMAC) in Bangkok by Chulalongkorn University, the host of the field.



AUN/SEED-Net's Database Attempt Meets CE & EnvE Needs

Participants in the joint conference of Civil Engineering (CE) and Environmental Engineering (EnvE) fields welcomed AUN/SEED-Net's attempt to develop database of bibliography and researchers. The attempt met the need of EnvE researchers for a collection of research topics and possible advisors/co-advisors of all member institutions to facilitate interest matching, as well as the need of CE participants for online proceedings.

The joint conference under the title "the 4th ASEAN Civil Engineering Conference (ACEC) and the 4th ASEAN Environmental Engineering Conference (AEEC)" was held by Gadjah Mada University on November 22-23, 2011. There were 115 participants including some from non-member institutions. As many as 110 papers were presented in seven parallel sessions.

The conference next year will be the joint one again, organized by Ho Chi Minh City University of Technology in October 2012.



ManuE Promotes PhD Sandwich Scholarships

The 4th Regional Conference in Manufacturing Engineering (ManuE) was arranged back to back with the 4th International Conference on Product Design and Development (IPDD) by Gadjah Mada University in Yogyakarta on November 9-10, 2011. The keynote session comprised lectures by Japanese professors and the presentation on trend and future of ASEAN engineers by local speaker, which led to discussion on standardization of engineers in each ASEAN country. Sixty-one papers were presented to almost a hundred participants in five parallel technical sessions.

The participants mainly discussed how to improve AUN/SEED-Net programs especially the PhD Sandwich and agreed to have more information dissemination and promotion e.g. promotion by alumni and attractive updates about the scholarships on their websites. As for the industry-university partnership, intellectual property issue was their major concern.

The next RC will be organized by De La Salle University in late 2012.



MatE Expects for Industrial Cooperation

Over hundred participants from Japan and ASEAN, including public and industrial sectors in Vietnam e.g. VN Steel Corporation, VN Steel Association, Metallic Materials Journal, VN Foundry & Metallurgy-Science & Technology Association, Hanoi Foundry & Metallurgy-Science & Technology Association, Institute of Materials Science, VN Association of Heat Treatment, and Ministry of Commerce and Industry gathered at the 4th Regional Conference on Materials Engineering (RCM) arranged by Hanoi University of Science and Technology on December 8-9, 2011. Four keynote and 28 paper presentations were made at the RC.

The participants talked about collaboration strengthening through AUN/SEED-Net programs and supported initiations of research database and ASEAN Engineering Journal. For the network's sustainability, they expected to cooperate with industry in several activities such as regional conferences and researches.

The next RCM will be held together with RCNRM by Universiti Sains Malaysia (USM) in 2012.



Apply for AUN/SEED-Net Scholarships Now!

By January 15 for PhD in Singapore Program

By January 31 for Master's and PhD Sandwich Programs

AUN/SEED-Net Scholar's Paper Earns Award in Thailand



Mr. Dao Van Tu (left) and Dr. Surachai Chaitusaney (right) with the Best Paper Award from EECON-34

AUN/SEED-Net scholar Mr. Dao Van Tu won the Best Paper Award in the 34th Electrical Engineering Conference (EECON-34) taking place during November 30 - December 2, 2011 in Pattaya, Thailand.

Mr. Dao Van Tu, PhD Sandwich scholar from Hanoi University of Science and Technology (HUST), and his advisor cum AUN/SEED-Net alumnus Dr. Surachai Chaitusaney from

Department of Electrical Engineering, Chulalongkorn University (CU), are authors of the paper titled "An Adaptive Algorithm for Fault Current Calculation in System with Penetration of Inverter-based Distributed Generation". The paper won the Best Paper Award in Power Systems field in the 34th Electrical Engineering Conference, one of the most prestigious conferences in electrical engineering of Thailand held yearly for researchers to announce their newest researches.

The usage of renewable energy from solar, wind, fuel cell, and micro hydro sources is being developed rapidly in this century. Among many generation technologies, the generation module consisting of a small generator and a power inverter known as the inverter-based distributed generation (IBDG) is gaining the attraction in converting the renewable energy into electrical energy. However, one of the obstacles in spreading this energy is relevant to the electrical protection systems. The innovative solution for fault current calculation proposed in the paper was highly appreciated in the conference. It is an important progress for interconnecting the generation using renewable energy to the power systems. The research in the paper was fully supported by the Collaborative Research Fund from the AUN/SEED-Net Project.

Staff Change



Ms. Supapim Wannopas has joined AUN/SEED-Net as Program Officer responsible for Chemical Engineering (ChE) and Environmental Engineering (EnvE) fields since October 10, 2011.



New Program Officer Ms. Kultira Tangtatswas has been in charge of Information & Communication Technology (ICT) and Mechanical/Aeronautical Engineering (ME/AE) fields since October 14, 2011.



Ms. Metta Kongphan-ampirak, Program Officer, resigned from the AUN/SEED-Net office since October 25, 2011.



Upcoming Events

Find latest schedules and more details at <http://seed-net.org/calendar.php>

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|---------------------|--|
| January 10-11, 2012 | The 4th Regional Conference on Mechanical and Aerospace Technology "Changing Tomorrow's Life by Developing Today's Technologies" @ Ho Chi Minh City, Vietnam (http://www.rcmeae2012.hcmut.edu.vn/) |
| January 18-19, 2012 | The 4th Regional Conference on Global Environment "Bridging Science and Industry toward Sustainable ASEAN Society" @ Bangkok, Thailand (http://www.4thrcge.eng.chula.ac.th/) |
| January 26-27, 2012 | The 4th Regional Conference in Biotechnology "Emerging Biotechnology for Green Engineering" @ Bangkok, Thailand (http://www.rcbio4.eng.chula.ac.th/) |
| February 9-10, 2012 | The 4th Regional Conference in Chemical Engineering @ Kuala Lumpur, Malaysia (http://rcceum.doodlekit.com/home) |
| March 12-13, 2012 | The 4th Regional Conference in Geological Engineering @ Vientiane, Lao PDR |