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Vietnam Engineering Education Conference (VEEC) 2016
April 14-15, 2016
Ho Chi Minh City

The Higher Engineering Education Alliance Program (HEEAP) and its partners will host the fourth annual Vietnam Engineering Education Conference (VEEC) in Ho Chi Minh City, Vietnam. The theme of VEEC 2016 is “Workforce Competitiveness: Partnerships Driving Human Capital Skills and Standards.”

Organized by HCMC University of Technology and Education (HCMUTE), the conference includes interactive plenary sessions, panel discussions, technical sessions and seminars with emphasis on partnerships between education, industry and government to innovate and build capacity in engineering and technology innovation in teaching, research and discovery.

With the Trans-Pacific Partnership and the ASEAN Economic Community launch, many Vietnam public and private universities are under pressure and eager to initiate or expand strategic partnerships with industry to increase human capital development. VEEC 2016 will explore “industry-academic collaborations” that drive curricular innovations to create results-driven high-quality engineering graduates, technology transfer and commercialization, and research. These advances in engineering education will respond to the needs of an emerging global economy to further support a mobilized workforce.

We look forward to participating in exciting discussions!

VULII Quality Assurance Institute workshop

On August 28, the VULII project organized a workshop on “Continuous Quality Improvement: AUN-QA/ABET Commonality, Issues and Best Practices” at the Rex Hotel in Ho Chi Minh City. Almost 40 QA leaders, QA professional staff, and program faculty with QA assignments from eight VULII/HEEAP schools participated in the training. Nguyen Huu Diem Huong, a VULII quality assurance coordinator, presented on the similarities and differences of ABET continuous quality improvement and the AUN-QA emphasis on improving quality assurance practices using a Plan–Do–Check–Act (PDCA) approach.

Nguyen Huu Diem Huong, Quality Assurance Coordinator, presents during the August VULII workshop.
Luu Hoang Hai, a student of Ha Noi University of Science and Technology (HUST), recently attended NIweek 2015 — a conference hosted by National Instrument from August 3-6 in Austin, Texas.

NIweek 2015 made Hai more interested in learning about new technologies and what they can do, exploring a future with IoT, and becoming aware of new products from many developers across the world.

“I hope that one day with the help of HEEAP, National Instrument, Intel and other American companies, Vietnam will become a ‘Silicon Valley’,” Hai said. “This was my first time preparing for and taking such a long trip. From the moment I took my first step in the United States until the time I left, I had a wonderful time, which wouldn’t have been possible without the support of National Instrument. It was my pleasure to take part in this conference.”

Hai and his fellow team members won the 2014 NI Innovation Design Competition for Young Entrepreneurs in Vietnam hosted by National Instrument and HEEAP. “Our biggest project during the competition was to discuss ‘Microwave drying system totally by NI myRio’,” said Hai. “With the great advice of our supervisor, Nguyen Duc Trung, a lecturer at HUST, as well as the efforts put forth by members of my team and the device platform provided by National Instrument, my team had a great time in Ho Chi Minh City.”

During NIweek in Austin, Hai made new friends from different parts of the world, including Nigeria, Cameroon and the Czech Republic. After spending four days there, he learned an overview of the development of technology of the world in the next 20 years, witnessed the achievements of new technology, talked with the experts, attended an NI session, learned some new technology developments that were brought to the conference, and joined some small training courses.

“Outside of the conference, I enjoyed the food of Austin,” Hai said. “I found that Mexican food is strange but good, the people are awesome, music is everywhere and everything is so attractive. Moreover, due to the time zone differences, I had a great time walking in the streets of Austin at night — it was so fantastic.”

CTTC and CTU program teams undergo mock visit in November

During the week of November 2, the first set of VULII-provided mock accreditation visits will be conducted at CTTC and CTU. These mock visits are focused on criteria related to program continuous improvement processes and student learning. The assessors will provide expert feedback on the program’s educational objectives, relations with constituencies, student outcomes and the program’s assessment and evaluation of the student learning related to those student outcomes.

The two programs from CTTC undergoing a mock visit are Electrical Electronic Engineering and Mechanical Engineering. At CTU, Mechatronics and Software Engineering programs will participate in the mock visit. Starting last year, the four program teams have been working on writing a simplified self-study and have received several coaching sessions from the VULII project team via both Skype calls and in-country meetings. Other essential activities and documents needed for the mock visit are under final preparation.
During the month of August, the VULII project provided an ABET training workshop for 50 faculty and staff from four member universities and two centers of Vietnam National University Ho Chi Minh City (VNU HCMC).

Scott Danielson and Kathy Wigal brought the essential knowledge of assessment and evaluation tools for program improvement to the workshop. Participants were equipped with various tools and techniques that would enable them to select courses for collecting assessment data, evaluate student attainment of the program outcomes, and other requirements of ABET regarding quality assurance activities at the program level.

Nguyen Hoi Nghia, vice president of VNU HCMC, acknowledged the contribution of HEEAP/VULII activities to Vietnamese universities in general and VNU HCMC in particular. Nghia also shared that the knowledge provided by VULII experts will serve as the key for universities leadership and faculty to directly apply in developing program curriculum, and implementing new teaching and learning techniques.

For more information, please visit: http://www.vnuhcm.edu.vn/?ArticleId=a35baf18-ea88-48c6-9cb5-0c5a233af10e
HEEAP representatives share experiences at the annual MoIT training conference in Da Nang

During the month of July, the Ministry of Industry and Trade (MoIT) hosted their annual training conference for personnel in Da Nang. This conference aimed to provide 200 MoIT employees and representatives from 49 universities and colleges with the most up-to-date information about ongoing and future projects.

Khoi Le Van and Quang Vo, representatives from ASU, gave a presentation about ASU activities in Vietnam, including HEEAP and VULII projects at the conference. They discussed technologies that have been helping ASU management and administration. Khoi shared his perspective on methods for improving the quality of Vietnamese workforce training and how ASU has supported current innovative ERP projects at the Department of Human Resource Development.

Other presenters during the MoIT conference included E-commerce and Information Technology Agency, Microsoft and Oracle. They presented information on various projects and technological solutions that address MoIT faculty’s challenges in their teaching and training programs. They also discussed ideas for how to enhance MoIT internal management processes. The partnership between ASU and MoIT has once again been strengthened by ASU’s continued participation in the conference.

New Team Members

HEEAP would like to welcome two new team members: Karl Theisen and Chani Clark.

Karl Theisen has been nominated as the new Country Director for ASU initiatives in Vietnam. Before moving to Ho Chi Minh City, Karl was the associate director for Professional & Executive Programs at the ASU’s Ira A. Fulton Schools of Engineering. For nearly 13 years Karl has worked at the intersection of higher education and industry, establishing new education institutions in emerging markets, and leading the development and operations of academic and professional education programs throughout the world. In 2002, Karl became a leader in RMIT International University Vietnam, the first foreign owned and operated university in Southeast Asia. He developed operational mechanisms and student support services that enabled substantial growth from 0-4,000 students in five years, as well a work-integrated-learning program that included an internship office placing over a thousand students into companies across Vietnam.

Chani Clark is the new coordinator for Global Partnerships at the ASU Tempe campus office. Chani is a two-time graduate from ASU, with a Master of Science in business management and a Bachelor of Arts in psychology with a minor in communication. She will be supporting the HEEAP project, as well as other global initiatives. Before joining HEEAP, Chani was an assistant program coordinator with the Barrett Summer Scholars Program while she was completing her Master’s degree. She has experience with event planning and coordinating logistics for large groups. Chani is active in community service, and belongs to several organizations that mentor young girls who are at-risk with arts and college readiness programs.
During the second quarter of 2015, ASU hosted a HEEAP faculty workshop for 25 Vietnamese University faculty in Tempe. The faculty members learned about different teaching methodologies and techniques for introducing active learning and student-centered activities into their existing courses. Faculty members learned about formative assessment techniques such as “Think-Pair-Share” and “Minute Paper” as well as student engagement techniques such as “Everyday Examples in Engineering.” For each of these approaches, faculty developed examples applied directly to their own courses.

During this workshop, faculty members also learned about various methods for introducing design-thinking into a course. These approaches ranged from creating open-ended components for standard textbook problems to creating significant desktop project experiences which engage students in the subject to large-scale, problem-based learning (PBL) course activities. In order to create a deeper understanding the role of design in engineering instruction, faculty participated in a weeklong PBL activity where they were tasked to work in teams to design a wearable system for facilitating communication and scheduling during a simulated disaster-relief exercise while using microcontrollers, sensor networks and Wi-Fi communication protocols. During this activity the faculty learned first-hand about teamwork principles and roles as well as methods for evaluating and guiding team and individual performance in design projects.

The workshop also had units on learning management systems and on utilizing technology to develop flipped and hybrid classes. Faculty members learned about the instructional benefits of online courses, flipped classes and using LMS to interact with students for grading and instruction. In one activity on instructional technology, faculty scripted and created digital stories with WeVideo to use as entry events to their flipped classes.

During the six-week workshop, faculty members also toured the TechShop in Chandler, Arizona as well as the ASU Innovation Center, ASU’s OESST program and Human-Centered Robotics laboratory. Faculty members also learned about the various engineering support systems that ASU has developed to support student success, such as career center programs, undergraduate teaching assistant programs and undergraduate student research programs. Faculty members also learned about accreditation practices and developed a series of appropriately leveled course learning outcomes (CLOs) for their target courses.

The workshop concluded with faculty members presenting to their peers the portfolios which they had developed over the six weeks which demonstrated their knowledge and understanding of pedagogy. These portfolio presentations also allowed the faculty to illustrate with specific examples how they will implement the many techniques learned during the six weeks.
HCMC University of Technology Workshop in Da Lat

Ho Chi Minh City University of Technology (HCMUT) in collaboration with HEEAP organized an in-country workshop, from July 20-24, titled “Preparing Your Course for Program Assessment: The Role of Faculty in Continuous Program Improvement and International Recognition”. The workshop took place at Vietsovpetro Hotel in Da Lat, Viet Nam. Over 80 participants from 13 faculty and departments attended the training.

At the workshop, Kathy Wigal from Arizona State University and Chell Roberts from University of San Diego introduced the knowledge, skills, tools and techniques needed to implement program assessment and evaluation activities, which serve as the key for ABET continuous program improvement process. Faculty had the opportunity to work on their own degree program curriculums and course syllabi to develop an assessment and evaluation plan. They also participated in several active learning activities which included group exercises, case studies, discussions, presentations, role play, problem solving activities and much more.

The in-country workshop was the third annual training provided by HEEAP to HCMUT faculty.
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