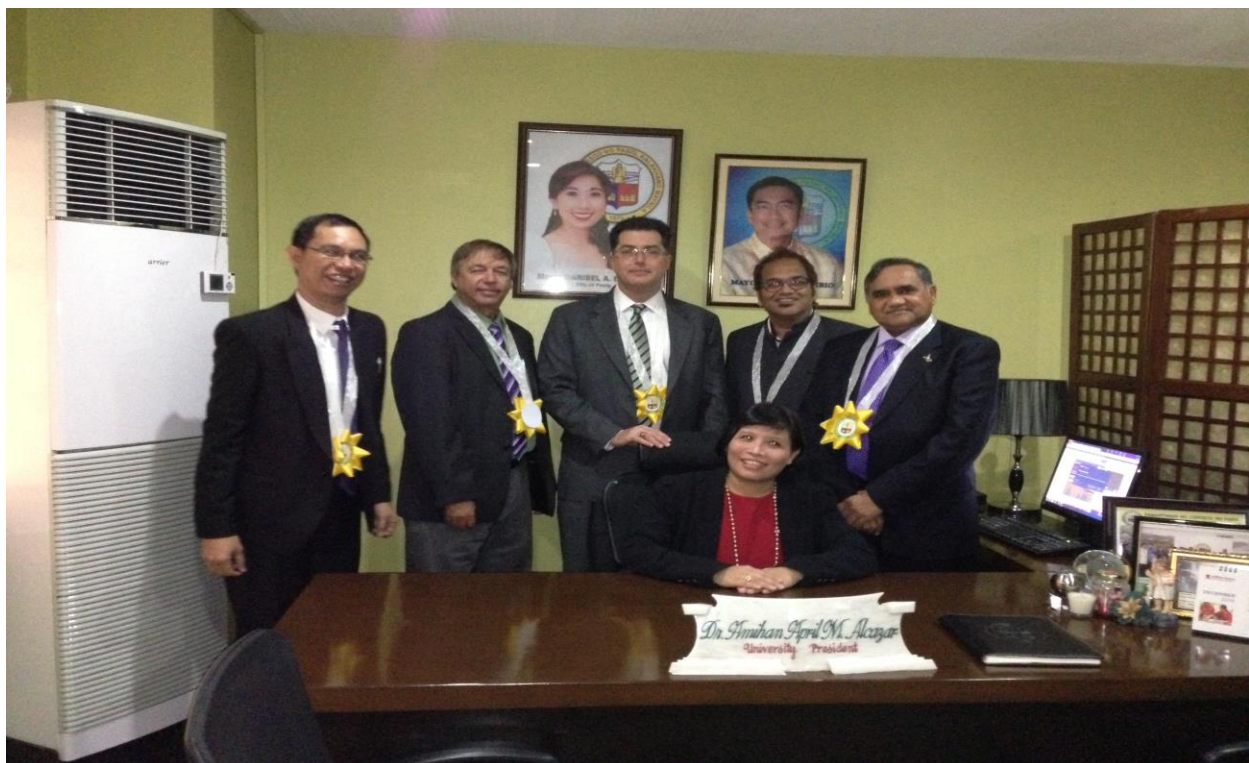


TREEDC RETURNS TO THE PHILIPPINES IN DECEMBER 2014 TO CONTINUE BUILDING RENEWABLE ENERGY CAPACITY IN ITS INTERNATIONAL EXCHANGE PROGRAM

The Tennessee Renewable Energy & Economic Development Council (TREEDC), the University of Tennessee (UT) and Tennessee Technological University (TTU) delegates returned to the Philippines in December 2014 to participate in a national convention, regional green technology summit and two academic forums. The objectives of this visit were to become more familiar with Philippines laws and customs; commence preparations for an International Trade Mission to the Philippines around July 2015; and to cultivate proposals from TREEDC-Philippine members interested in seeking partnerships with U.S technology manufacturers and providers.

Delegates from TREEDC, UT and TTU participated in the Philippine Association of Extension Program Implementers (PAEPI). Convention held at Pasig City University on December 1st thru 3rd, 2014. PAEPI is a private, non-stock, non-profit, professional organization dedicated to the promotion and enhancement of the role of extensionist as key players in people empowerment for sustainable community development. A total of 84 Philippine colleges and universities were represented at the convention.



L-R photo: Prof. James Loreto Piscos, San Beda College, Doug Jackson, TREEDC International Affairs Director, Warren Nevad, The University of Tennessee MTAS/TREEDC, Dr. Rajesh Arora, Dr. Bharat Soni, Tennessee Tech University and in the front: Dr. April Alcazar, Pasig

The Tennessee delegates reviewed research abstracts from the Philippine premier colleges/university's extension and outreach programs. Both the University of Tennessee and Tennessee Tech have comprehensive and innovative community outreach programs and the TREEDC International Exchange Program offers opportunities in linking Philippine cities, businesses and schools with Tennessee counterparts.

TREEDC International Affairs Director Douglas Jackson, The University of Tennessee MTAS Management Consultant Warren Nevad, and Tennessee Tech University (TTU) Vice President of Research and Economic Development Dr. Bharat Soni, Pasig City University President Dr. April Alcazar and PAEPI President/Maritime Academy of Asia and the Pacific Professor Dr. Angelica Baylon provided renewable energy related presentations and served as judges for extension research related best practices. Outcomes generated from the convention included the following:

- 1) Development of a Master Memorandum of Understanding between PAEPI, Tennessee Tech and TREEDC which results in a consortium of Philippine sister colleges for TTU;
- 2) Building stronger academic and municipal linkages as it relates to renewable energy;
- 3) Assistance to PAEPI in recruiting more member colleges to its organization;
- 4) Planning for an International Trade Mission with Tennessee officials and technology providers in Summer 2015 to explore upcoming project proposals from PAEPI member schools, and related private sector businesses and local governments.
- 5) Planning for a PAEPI Conference with the Affiliated Renewable Energy Centers that are part of the PAEPI-TTU network.
- 6) Review and discussion of the Extension Services provided by the University of Tennessee; and
- 7) Development of energy efficiency benchmarking practices for Philippine member academic institutions;

TREEDC has developed a comprehensive network of many Philippine colleges, local government units (LGUs) and related businesses to advance renewables in the Philippines through TREEDC technology providers in the United States. TREEDC has replicated its developmental approach in the Philippines that was originally created in Tennessee to achieve significant renewable energy progress in the Volunteer State during the past 6 years.

On December 3rd, TREEDC met with the City of Antipolo's waste management officials to explore landfill solutions. TREEDC also met with a private business landowner to assess waste to energy and solar needs.

TREEDC also met with SM to discuss their renewable energy portfolio and their interests in solar and geothermal. TREEDC also met with the National Grid Corporation to examine more efficient ways to forecast wind energy. Later on December 4th, a piggery operator met with TREEDC officials to look at ways to optimize their operations.

On December 5, 2014, the Technological University of the Philippines (TUP) held a roundtable forum featuring representatives from the Tennessee Renewable Energy & Economic Development Council (TREEDC), Philippine Department of Energy, Base Conversion Development Authority (BCDA) and CHEMREZ in Taguig City, Philippines. Discussions centered on renewable energy opportunities for TUP's four campuses and collaboration with a new planned campus expansion.



TUP Participants

TUP President Dr. Adora Pili announced that TUP and TREEDC will partner for the establishment of clean and efficient renewable energy for the campus expansion. Other partners with this expansion project hail from India and Taiwan. The objectives for the expansion project include the following:

- 1) Increasing industrial plant production;
- 2) Creating a renewable energy center, solar powered university;
- 3) Supporting nearby industries; and
- 4) Offering courses for the K-12 high school graduates.

Later that day, Philippine Normal University (PNU) Manila Campus hosted TREEDC for a planning meeting for its Green Technology Summit in Bacolod. The Philippine Normal University (PNU) is a public research university in Manila, Philippines established in 1901. Pursuant to Republic Act No. 9647, it is now funded and operated as a National Center for Teacher Education in the country. PNU has 5 campuses across the Philippines.



From left to right: Dr. Victor Fumar, Philippine Normal University (PNU), Alcazar, Jackson, Soni, PNU President Dr. Ester Ogena, PNU Executive Director Dr. Marites Geronimo and Nevad.

TREEDC then visited the campus of San Beda College and met with their officials to tour the campus. San Beda College is a Private Roman Catholic Benedictine college run by the

Benedictine monks in the Philippines. It is located in Mendiola, Manila, for college and Taytay, Rizal for Elementary and High School. It was founded in 1901.



Officials from San Beda College, TREEDC, Pasig City University, Maritime Academy of Asia and the Pacific, the University of Tennessee and Tennessee Tech University enjoy the tour of San Beda College in Manila

TREEDC officials arrived in Bacolod on December 9, 2014 to tour the area and to participate in the Green Technology Forum and the PNU-Cadiz City educational event. Philippine Normal University (PNU) held a Green Technology Summit on December 10, 2014 in Bacolod City, Negros Occidental. Representatives with the Tennessee Renewable Energy & Economic Development Council (TREEDC) helped banner the theme "Green Plans for Environmental Sustainability." The summit involved local stakeholders, international resource speakers, local government units, universities and colleges officials, business and industry representatives and the University faculty. PNU Visayas Executive Director and Provost, Dr. Marites C. Geronimo, inked additional TREEDC memorandums of agreements

with Carlos Hilado Memorial State College and Northern Negros State College of Science and Technology.

The Conference Policy statement included an objective to establish linkages/network, and partnership with other institutions, agencies and sectors in the creation and promotion of sustainable programs using innovative energy technologies. PNU Visayas held the Student Forum on Green Technology with the TREEDC speakers sharing their insights with approximately 700 university students at the campus in Cadiz City on December 11. The three speakers answered questions from students during the open forum.



PNU – Visayas Green Technology Summit- left to right: Warren Nevad, the University of Tennessee MTAS/TREEDC, TREEDC President James Talley, Bacolod, Philippines Mayor Monico Puentevella, Toboso, Philippines Mayor Richard Jaojoco, TREEDC International Affairs Director Douglas Jackson and PNU-Visayas Executive Director Dr. Marites Geronimo



TREEDC President Talley and International Affairs Director Jackson

TREEDC visited the TUP – Visayas campus and had a great time interacting with faculty and staff. TREEDC also met with Mabalacat city officials and faculty and staff from Holy Angel University. Plans were started to conduct a future forum with Mabalacat and Holy Angel leaders. Holy Angel University was founded in 1933. Sitting on a seven-hectare campus in the city's prime estate, Holy Angel University is one of the region's largest universities. Its over 20,000 student population this school year also makes it one of the biggest private schools in Central Luzon.

TREEDC concluded its trip by visiting with officials from a private agricultural firm and Oly Serafica, President of the Renewable Energy Association of the Philippines.