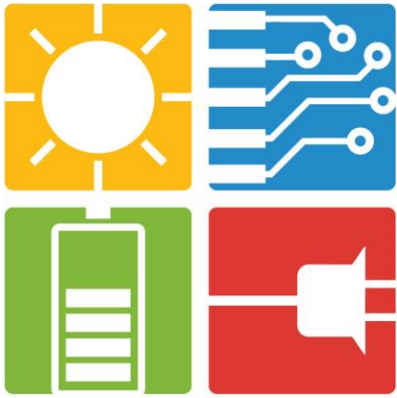




present:



VI INTERNATIONAL SYMPOSIUM

ON ENERGY & INNOVATION & ENTREPRENEURSHIP FORUM

February 19 - 21, 2014 · Universidad del Turabo · Gurabo, Puerto Rico

PROGRAM

Universidad del
TURABO

LACCEI

Latin American and Caribbean
Consortium of Engineering Institutions

Partners:



ALIANZAS DESARROLLO ECONÓMICO



Sponsors:



Walmart
Puerto Rico

ON / OFF
opciones de energía para puerto rico



ESTADO LIBRE ASOCIADO DE PUERTO RICO
COMPAÑÍA DE
**COMERCIO Y EXPORTACIÓN
DE PUERTO RICO**



Day 1- Preconference - February 19, 2014

Energy Policy Overview

Argentina Hills Amphitheater - Universidad del Turabo

1:30 – 2:00PM REGISTRATION

2:00 – 2:20 WELCOME

- Dr. Amaury Malavé
Executive Director Puerto Rico Energy Center
- Ivonne Lozada
AGMUS Associate Vice-President & IPP Executive Director

2:20 – 2:40 GREETINGS

- Dr. José F. Méndez
AGMUS President & INTECO Executive Board Vice-president
- Hon. William Miranda Torres,
Caguas Mayor & INTECO Executive Board President

2:40 – 3:15 PUERTO RICO GOVERNMENT ENERGY PROPOSALS

- Hon. Eduardo Bhatia
Puerto Rico Senate President

3:15 – 3:30 BREAK

3:30 – 4:30 DISCUSSION PANEL

- Dr. Roberto Lorán, Moderator
Universidad del Turabo Vice-chancellor US DoE Massie Chair
- Mr. Juan Rosario
Puerto Rico Energy Power Authority Board Member
- Eng. José Maeso
Energy Affairs Office Executive Director
- Eng. Julián Herencia
Renewable Energy Producers Association Executive Director

4:30 – 5:00 ENERGY PROJECT FUNDING: FUTURE'S PERSPECTIVE

- Mrs. Susana Ivana Cazorla Espinoza
Ibero-American Association for Energy Regulatory Commissions Representative

5:30 COCKTAIL

Day 2- VI Energy Symposium - February 20, 2014

Argentina Hills Amphitheater - Universidad del Turabo

8:00 – 8:45AM REGISTRATION

8:45 – 9:00 OPENNING

- Eng. Sandra R. Pedraza
Puerto Rico Energy Center Education Department Director

9:00 – 9:45 IS 100% RENEWABLE ENERGY ATTAINABLE: Myth or Truth

- Eng. Ricardo Ramos
Director Earthshine Corporation

9:45 – 10:45 PARALLEL SESSIONS (Argentina Hills Amphitheater)

Electronics & Energy (Argentina Hills Amphitheater)		
Prototype electromechanic for energy microgeneration for biometric access control in locker	Ricardo Garzón	Colombia
Proposal to develop a management model network for electrical homes	Marcela Adriana Vega Escobar	Colombia
Implementation of an embedded phase and frequency tuner, as reference for real-time energy exchange whit the grid	Clementina Rueda	Mexico

9:45 – 10:45 PARALLEL SESSIONS (Pedro Rosselló Library Amphitheater)

Materials & Energy (Pedro Rosselló Library Amphitheater)		
Spectral and proper eigenvalue methods for the solution of linear differential equations	Roberto Callarotti	Puerto Rico
Synthesis and characterization of graphene flakes to be used in the development of electrodes for Li-ion batteries	Maria Cotto	Puerto Rico
The Effects of gamma radiation on the uranyl-peroxide nanoclusters U24-Li and U24-K	Alejandra Cartagena-Sierra	Puerto Rico

10:45 – 11:00 BREAK

11:00 – 12:20 PARALLEL SESSIONS (Pedro Rosselló Library Amphitheater)

Transportation & Energy and Technology Acceleration (Pedro Rosselló Library Amphitheater)		
Photonics and Advancing Technologies	Jonathan Friedman	Puerto Rico

Other Topics (Pedro Rosselló Library Amphitheater)		
Potential Energy for the production of pellets of 10 species of forest plantations un Costa Rica	Carolina Tenorio	Costa Rica

Clean Technologies & Advance Materials (Pedro Rosselló Library Amphitheater)		
RISE: Renewable and Integrated Systems of Energy, Wind, Water and Green Energy Storage for Developing Nations	Paola Davalos	USA
Power Generating Helical Turbine Model for Hurricane Wind Mitigation	Javier Palencia	USA

11:00 – 12:20 PARALLEL SESSIONS (Argentina Hills Amphiteatre)

Renewable and Novel Energy (Argentina Hills Amphiteatre)		
Redefining renewables and reexamining overlooked issues	Jinraj Joshipura	USA
Study of the Effect of Efficiency in Energy Resource Longevity under the Scope of Sustainability	Ronald Barazarte	Panamá
Solar ORC	Edward Romero	Puerto Rico
A desktop grid network design for HSI applications	Jose O. Noguerras	Puerto Rico

12:20 – 1:30PM LUNCH

1:30 – 2:15 Wind Energy Project at Santa Isabel after one year of operation

- Eng. Collie Power
Pattern Energy

2:30 – 3:50 Parallel Sessions (Argentina Hills Amphitheatre)

Electronics & Energy (Argentina Hills Amphitheatre)		
Immersion Cooling using 3M™ Novec™ Engineered Fluids	Kelvin Cabrera	Puerto Rico

Clean Technologies & Advanced Materials (Argentina Hills Amphitheatre)		
Energy Efficiency Analysis in static converters using IEE 1459	Carlos Andres Torres Pinzón	Colombia
Application of nanoparticles of silver, clay and carbon multi-layer tubes in reinforcement of wood and wood adhesives	Royer Moya	Costa Rica

Renewable & Novel Energy (Argentina Hills Amphitheatre)		
Effect of Renewable Energy Penetration in Aggregated Energy Costs	Guadalupe González	Panamá

3:50 – 4:05 BREAK

4:05 – 5:05 Parallel Sessions (Argentina Hills Amphitheatre)

Renewable & Novel Energy (Argentina Hills Amphitheatre)		
Determination Of The Grid Co2 Emission Factor For The Electrical System Of The Dominican Republic	Rafael Beriguete	Dominican Republic
The Utilization of Sugar Cane as a Potential Model of a Biorefinery for the Improvement of the Economic Development of Puerto Rico	Lorenzo Saliceti-Piazza	Puerto Rico
"Biodiesel production from vegetable oils new and its efficiency in diesel engines"	Dayna M. Ortiz Rodríguez	Puerto Rico

5:05 Closing

Día 3- Foro de Innovación - February 21, 2014

Argentina Hills Amphiteatre
Universidad del Turabo

8:00 – 8:45 AM REGISTRATION

8:45 – 9:00 OPENING

- Zenaida Gutierrez
SUAGM VP Economic Development Initiatives, Ana G. Mendez System

- Javier Lugo
Business Development & Accelerator for Clean Technologies Director PREC

9:00 – 9:45 Challenges faced by developing and marketing new technologies

- Dr. Charles E. Ross
Director de *Startup Networks* Enterprise Innovation Institute EI²; Georgia Tech University.

9:45 – 10:35 Strategies of Private Funding in Innovation Projects (Panel)

Moderator: Dr. Marcelino Rivera, Dean of School of Business and Entrepreneurship, Universidad del Turabo

Angels Investors	Antonio J. Sifre-Sein	TORO, COLÓN, MULLET, RIVERA & SIFRE, P.S.C.
CrowdFunding	Guifre Tort	Ant Rocket

10:35 – 11:20 Legislation Models for Start Ups Funding / Chile Case

- Dr. Cristian Morales Letzkus
Director Regional del CORFO, Coquimbo, Chile

11:20 – 12:35 Support Programs for Innovation

Moderator: Luis García Feliú, Ana G. Mendez University System

- Dr. Gerardo Fernández
President , Technology Park of Sartenejas, Venezuela
- Eng. Javier Lugo
Director, ACT Global
- Mr. Francisco Chévere
Executive Director, Trade and Export Company of Puerto Rico
- Dr. Yazan Hijazi
Electrical Engineering Professor, Universidad del Turabo
- Mrs. Elvia Camayd
Innovation Collegial Program, Universidad de Puerto Rico, Mayagüez

12:35 – 1:45PM LUNCH

1:45 – 2:30 Running Lean and Incubators

- Eng. Bartolomé Gamundi Cestero
Ex-Secretary of Economic Development of Puerto Rico

2:30 – 3:50 Parallel Sessions

Technology & Business Opportunities		
Six Sigma and Innovation	Chad Laux	USA

Aerospace Technologies		
Pulsed Plasma Thruster Study for CubeSats	Edwar Romero	Puerto Rico
NanoSatellite Ground Station using Software Defined Radio	Damián Miralles	Puerto Rico
Health Monitoring System for Gas Turbines	Edwar Romero	Puerto Rico

3:50 – 4:35 Innovation in the Private Sector

- Gloria Vizcasillas
Echar pa'lante Campaign Director – Banco Popular Puerto Rico

4:35 Closing