



**VII SIMPOSIO
INTERNACIONAL**

Puerto Rico Energy Center

Universidad del Turabo · Gurabo, Puerto Rico

Anfiteatro Argentina Hills

8:00am-9:00am

Registration

9:15am-9:40am

Intake Manifold Design And Optimization For Formula SAE Application

*Bryan Santana, Daniel Carrión
Dr. Gerardo Carbajal*
Universidad del Turabo

9:40am-10:05am

Reliable 1-Center Location Using The R-Shortest Path Policy In Hazardous Material Transportation

Dr. José A. Santiváñez
Universidad del Turabo

10:05am-10:30am

Smart Meter Network and Power Grid Security

*Dr. Jeffrey L. Duffany
Dr. Rafael Rivera*
Universidad del Turabo

10:30am-10:55am

Energy Generation for Biomedical Applications

*Gelson Diaz Lozada
Dr. Edwar Romero*
Universidad del Turabo

Sala Educativa

8:00am-9:00am

Registration

9:15am-9:40am

The Impact Of Enterprise Resource Planning Systems On Small And Medium Enterprises

Dr. Miguel A. Buleje
Universidad del Turabo

9:40am-10:05

Implementation And Validation Of A New Loading Protocol For The Wind Testing Of Wood-Zinc Roofs

Dr. Rolando Garcia
Universidad del Turabo

10:05am-10:30am

Design and Implementation of Strategic Model for Analysis of Competitive Intelligence Systems

Francisco Valdés, Christina Hidalgo, Santos Garcia, Saúl Domingo
Universidad de León, España
Universidad Tecnológica de Panamá

10:55am-10:55am

Effects of Spray Cooling on Hot Gases Jet Impingement on a Flat Plate

*Diana Hernández
Dr. Gerardo Carbajal*
Universidad del Turabo

Anfiteatro Atrgentina Hills

2:15pm-2:40pm

Simplified Modeling of Aircraft Wing Loads Using MATLAB

*Jonathan Holguino
Héctor M. Rodríguez
Bernardo Restrepo*
Universidad Politécnica de Puerto Rico y Universidad del Turabo

2:40pm-3:05pm

Model for the Mixture of Two Components Permittivity Systems

Dr. Roberto C. Callarotti
Universidad del Turabo

3:05pm-3:30pm

Development Photovoltaic Cells Made From lead selenide

*Mitkel Santiago
Derrick Maldonado
Dr. Amaury Malavé*
Universidad del Turabo

Anfiteatro Argentina Hills

1:00pm-1:25pm

Reuse Plan Oil Plant for
Production and Use of Biodiesel
in Automotive of Universidad
Autónoma De Baja California

Emilio Hernández, Jesse Gerardo López
M.I. Norma Candolfi

Universidad Autónoma de Baja
California

1:25pm-1:50pm

Thermodynamic Simulation Of
Geothermal Power Plants From
Simple Flash, Flash and Double
Binary In Engineering Equation
Solver

Emilio Hernández, Jesse Gerardo López
M.I. Norma Candolfi

Universidad Autónoma de Baja
California

1:50pm-2:15pm

A Radio System Intelligence Layer
Communication of Smart Grid

*Héctor Poveda, Fernando Merchán, Jean
Montiel*

Universidad Tecnológica de Panamá

Sala Educativa

1:00pm-1:25pm

Low Cost Data Acquisition for Ac-
celeration Readings

José Montoya, Sergio Mendoza,
Lisabel Burgos, Edwar Romero,
Héctor Rodríguez

Universidad del Turabo

1:25pm-1:50pm

Analysis for Failure Detection on
Rotating Machinery

Miguel A. Delgado, Edwar Romero
Héctor Rodríguez

Universidad del Turabo

1:50pm-2:15pm

Calculation of the Drag Coefficient of
a Sphere and Cube By

Numerical Simulation
Miguel A. Delgado, Luis M. Tapia
Dr. Gerardo Carbajal

Universidad del Turabo

2:40pm-3:05pm

Reduction of Air Condition Cooling
Load by Smart Glazing

Applications
Christina T. De Freitas, Brenda L. Morales

Dr. Gerardo Carbajal
Universidad del Turabo

Anfiteatro Argentina Hills

10:55am-11:55am

Ecology, Technology and Engineering:

El Trípode de Decisiones para el Manejo Efectivo de Recursos

Key Note Speaker

Dra. Elvira Cuevas

11:55am-1:00pm

Lunch/Almuerzo

Area de Recesso

Museo y Centro Humanístico

Josefina Camacho De la Nuez