

XI



XI



Universidad del
TURABO

XI ENCUENTRO DE INVESTIGADORES PROGRAMA

8:00 am Registro y Desayuno – Biblioteca Museo Gobernador Pedro Rosselló

8:45 am Bienvenida – Dra. Sharon A. Cantrell, Decana Estudios Doctorales

9:00 am Panel ***La contribución de la academia en el desarrollo científico y socioeconómico de Puerto Rico***

Moderador: Dr. Jack Allison, Decano Escuela Ingeniería

Panelistas:

Sr. Iván Ríos Mena

Director Ejecutivo Fideicomiso de Ciencias, Tecnologías e Investigación de Puerto Rico

Dra. Alizabeth Sanchez

Catedrática Auxiliar .Escuela de Negocios y Empresarismo

Dr. Pedro Rosselló

Exgobernador de Puerto Rico

Dr. Roberto Callarotti

Director científico del Puerto Rico Energy Center (PREC)

Dra. Giovanna Guerrero

Directora ejecutiva de Ciencia Puerto Rico

11:00 am Presentación de Afiches – Terraza Biblioteca Museo Gobernador Pedro Rosselló

12:00 pm Almuerzo – Casa Rectoría

1:30 – 4:00 pm Sesiones Concurrentes

Sección Negocios y Empresarismo I – AGM 150

Sección Negocios y Empresarismo II – AGM 151

Sección de Ingeniería I – AGM 152

Sección de Ingeniería II – AGM 153

Sección de Ciencias y Tecnología I – AGM 154

Sección de Ciencias y Tecnología II – AGM 155

Sección de Ciencias y Tecnología III – AGM 156

Sección de Salud y Psicología – AGM 250

Sección de Educación – AGM 250

Panel I – Lectura: teoría y praxis – AGM 251

Panel II – Un acercamiento a la historia de la región centro-oriental – AGM 251

4:30 pm Actividad de Reconocimiento a Autores Científicos y

Profesor/Investigador Destacado – Biblioteca Museo Gobernador Pedro Rosselló

5:30 pm Coctel

Presentaciones Orales – Secciones Concurrentes

Sección de Negocios y Empresarismo – AGM 150, Moderador Juan C. Sosa

Hora	Título	Presentador
1:30 pm	The Journalism Transformation: Impact of Social Media in Journalism	Maria Vera
1:45 pm	La inteligencia emocional en el personal administrativo de la Pontificia Universidad Católica de Puerto Rico	Mei-Ling Velázquez Sepúlveda
2:00 pm	Los Sistemas de Información como Complemento en la Enseñanza Intensiva de las Matemáticas	Angel M. Ojeda
2:15 pm	Análisis de la relación los índices financieros como predictor del ingreso neto: un análisis factorial y de panel de datos	José O Cruz Rodríguez
2:30 pm	Consumer perceptions of Private Brands vs Manufacturers Brands: A multivariate model	Angie Lugo
2:45 pm	Determinants of Buyer-Supplier Relationship of Puerto Rican SMEs: An Extended Approach	Juan Carlos Sosa Varela
3:00 pm	Effects of perceived justice and negative emotions on satisfaction: A cross-industry	Juan Carlos Sosa Varela
3:15 pm	Impacto de la gestión estratégica e integración de los recursos humanos con la planificación estratégica de la organización	Rosaliz Santiago Ortega
3:30 pm	Development of the human capital from the family organization with the intervention of the industrial organization psychology in a group of families from north and south of Puerto Rico	Sandra Velez Candelario

Sección de Negocios y Empresarismo – AGM 151, Moderador Julio C. Hernández

Hora	Título	Presentador
1:30 pm	Characteristics of the Female Entrepreneur of Puerto Rico	Virgin Dones
1:45 pm	Marketing in Social Enterprises in Puerto Rico	Jaime Olivieri Barrios
2:00 pm	The Impact of Service Quality and Benefits on Customer Loyalty	Evelyn Lopez
2:15 pm	The Roles, Behaviors and Participation of Foreign Subsidiary Executives in the Affiliate Divestment Decision Process	Luis M. Baquero-Rosas
2:30 pm	What is Culture?	Antonio Lebrón Rolón
2:45 pm	Marketing manager's responsibilities within the firm: A descriptive study of Puerto Rico's successful companies.	Frank Lozada Contreras
3:00 pm	Regional innovation leadership/Communities of practice/knowledge hubs	Jesús Rodríguez Carriles
3:15 pm	Responsabilidad Social y Corporativa como índice de valor	Ramón Torres Morales

Sección de Ingeniería – AGM 152, Moderador José Santiváñez

Hora	Título	Presentador
1:30 pm	Microwave heating of down well extra heavy oil	Roberto C. Callarotti
1:45 pm	Cloud Computing Security and Privacy	Jeffrey I. Duffany
2:00 pm	Maximizing Service Availability/Survivability on Networks Vulnerable to Disruptions	José Santiváñez
2:15 pm	Comparison of Service Reliability Metrics on Vulnerable Stochastic Networks	Jean Carlos Rivera
2:30 pm	Location of Reliable Medians on Vulnerable Networks With Stochastic Demands	Wesley J. Marrero

2:45 pm	A New Approach in the Derivation of the Energy Equation for Compressible and Incompressible Flow	Gerardo Carbajal
3:00 pm	Effects of Porous Media Protuberances for Boiling Enhancement in Mini-Channels	Gerardo Carbajal
3:15 pm	Nanofluids Heat Transfer Enhancement in a Groove Heat Pipe	Gerardo Carbajal
3:30 pm	Energy Generation from Ocean Waves	Darío Alemán

Sección de Ingeniería – AGM 153, Moderador Yahya Masalmah

Hora	Título	Presentador
1:30 pm	Characterization of Thermoelectric Materials and Contacts by an Enhanced Harman Method	Eduardo E. Castillo
1:45 pm	Energy Harvesting from Fluttering Membrane	Gelson Diaz
2:00 pm	Waste Heat Recovery of Air Conditioning Units for Electrical Energy Generation	Raúl León & Edwin Rodríguez
2:15 pm	Fail Detection in Gas Turbines	Miguel Delgado
2:30 pm	Gas Turbine Design	Joyfred Villamán
2:45 pm	A Comparative Study of Target Detection Algorithms in Hyperspectral Imagery	Jose Orlando Nogue
3:00 pm	Summer Faculty Immersion as a Strategy to Diffuse Engineering Education Innovations: First Year Results	Juan C. Morales
3:15 pm	Evaluation of Productivity and Operation of a Commercial Scale Photovoltaic Array connected to the electrical grid 25 years after its original installation	Amaury Malave
3:30 pm	Integrating Electric Power from Renewable Sources	José L. Colón
3:45 pm	Green IT: Model for High-End Industry (Pharmaceutical Electronics in Puerto Rico)	Angel Quiñones Torres

Sección Ciencias y Tecnología – AGM154, Moderadora Adrinel Vazquez

Hora	Título	Presentador
1:30 pm	A first model of soluble reactive phosphorus dynamics in Laguna Cartagena using software Stella (V8) and ordinary differential equations.	Brenda C., Torres-Velásquez
1:45 pm	Analysis of Future Climate Transport and Deposition Patterns of Black Carbon from Wildland Fire to the Arctic and other Snow/Ice Covered Regions.	Marlin E Martínez
2:00 pm	Arsenate Respiratory Reductase: Biomarker for Detection of Environmental Threat.	Liryanys Figueroa
2:15 pm	Assessment of Genetic Homology for Effective Detection of <i>Mycoplasma</i>	Luz V Arroyo-Cruz
2:30 pm	Bacterial Prospects for Aliphatic Alkane Degradation across Tropical Ecosystems.	Migel Rosario-Mariani
2:45 pm	Bioprospecting for bioenergy: bacterial degradation of lignocellulosic compounds.	Myrna L. Ríos Hernández
3:00 pm	Case Study: Analysis of Weather Conditions and Smoke for 2002 Biscuit Fire in Southwest Oregon.	Marlin E Martínez
3:15 pm	Distribution and Diversity of Fungi across Tropical Coastal Ecosystems.	Yentel A. Rodríguez Ortiz
3:30 pm	Yeast Involved in the Degradation of Plant Residues as a Potential Biofuels Source.	Jean García-Díaz

Sección Ciencias y Tecnología – AGM155, Moderadora Olga Quintero

Hora	Título	Presentador
1:30 pm	Fish species diversity at three different river ecosystems in Puerto Rico	Antonio E. Carro-Anzalotta
1:45 pm	Fungal Endophytes from <i>Spathodea campunolata</i> in Puerto Rico	José I. Cruz-Rodríguez,
2:00 pm	Synthesis Nano-sized (Ba _{0.5} Sr _{0.5}) _{1-x} NdxCo _{0.8} Fe _{0.2} O _{3-δ}	Edaris Rodríguez-Izquierdo
2:15 pm	Incidence of Dermatophytoses in the 5th toe in the Southern Area of Puerto Rico	Yorki Emmanuel Serrano Natal
2:30 pm	Microbial forensics responds to environmental risk	José R. Pérez Jiménez
2:45 pm	Nonpoint pollution of major channelized water sources to Laguna Cartagena with phosphorus	Yashira Marie Sánchez Colón
3:00 pm	Ontological Models and Semantic Web Design using RDF/OWL; tools kit development, requirements, investigation areas.	Rafael M. Rivera
3:15 pm	Phycological Culture Optimization for the Production of Fuel Oils	Abisrael Morales-Feliciano
3:30 pm	The Temperature of the Rain in Puerto Rico	Ronald T. Richards

Sección Ciencias y Tecnología – AGM156, Moderador Eddie Laboy

Hora	Título	Presentador
1:30 pm	Population Trends in West Indian Whistling Ducks and other <i>Dendrocygna</i> species at Laguna Cartagena, Puerto Rico	Fred C. Schaffner
1:45 pm	Shift of Soil Bacteria in Response to Salinity Regime in Rio Grande de Manatí	José Lafontaine-Serrano
2:15 pm	Wildlife in the city: the response of birds to urbanization	Eliseo Emilio Font Nicole
2:30 pm	The Carbon and Oxygen Stable Isotopic Composition of Waterbird Eggs from South Florida: Insights into Feeding Ecology and Geographic Range	Fred C. Schaffner
2:45 pm	The Challenges to Employ <i>Tillandsia recurvata</i> as Biomonitor of Polycyclic Aromatic Hydrocarbons from Transportation in Puerto Rico	Yolanda Ramos-Jusino
3:00 pm	The influence of habitat composition and food availability on migratory and resident bird abundance and diversity in a subtropical dry forest in southeastern Puerto Rico	Waleska Vazquez Carrero
3:15 pm	Interhabitat Connectivity of Wintering New England Songbirds on the South Coast of Puerto Rico: Development of an Emerging Paradigm in the Face of Global Warming	Fred C. Schaffner
3:30 pm	Environmental Management of Polycyclic Aromatic Hydrocarbons (PAHs): a Persistent Ubiquitous Organic Pollutant	Yolanda Ramos-Jusino

Sección de Salud y Psicología – AGM 250, Moderadora Edna Oyola

Hora	Título	Presentador
1:30 pm	CXCR4-CXCL12 axis in proliferation, migration, and invasion of endometriosis	Abigail Ruiz
1:45 pm	Descriptive analysis of clinical trials in Puerto Rico	Wilfredo E. De Jesus-Monge
2:00 pm	Development of nanoscaled sensors for real time detection of heart failure biomarkers	Kiara Pujols
2:15 pm	Feminine beauty and its links with the medical and mediatic discourse: An approach to Foucaultian subjectivity	María Navarro Chento

Sección de Educación – AGM 250, Moderador Edna Oyola

Hora	Título	Presentador
2:30 pm	Impact of ¡Ciencia Boricua! on Elementary and Middle School Students' Perception of Science	González-Espada, Wilson J.
2:45 pm	Literacy: The first steps towards social transformation in Latin America	Maribel Aponte Rodríguez
3:00 pm	PERCEPTION OF UNIVERSITY'S COUNSELORS ABOUT THEIR PRACTICES AS TRANSFORMATIVE LEADERS	Elba J. Guzmán Faría
3:15 pm	Eight steps for a research development: the proactive approach	Walter López Moreno
3:30 pm	Perception of visual art teachers about the construction of the black image in the paintings of some puertorrican artists: Implications for a multicultural/multiracial art education program in Puerto Rico	Lillian Lara Fonseca
3:45 pm	Te hablo en español or in English?"	Rocío Delgado

Panel: Lectura: teoría y praxis – AGM 251, Moderador Beatriz Cruz Sotomayor

Hora	Título	Presentador
1:30 pm	Reading, Writing, Object: anti-disciplinary research and its context	Carlos Cordero Cancio
1:45 pm	Books and Readers in Higher Education: Reflections on Literacy	Beatriz Cruz Sotomayor
2:00 pm	Spanish Reading and Critical Thinking in Internet Text	Lorna Polo Alvarado
2:15 pm	"Gender and Monstrosity in the Narrative of Julio Cortázar"	René Rodríguez-Ramírez
2:30 pm	Preguntas	
2:45 pm	Crosslinguistic influence (CLI) in multilingual learners	María E. Medina-Callarotti

Panel: Un acercamiento a la historia de la región centro-oriental: los casos de Caguas y San Lorenzo – AGM 251, Moderador Felix Huertas

Hora	Título	Presentador
3:15 pm	The Powerful Elite in San Lorenzo at the End of the 19th Century	Félix R. Huertas González
3:30 pm	Modernization and the Economic Crisis in Caguas at the End of the 19th Century: 1878-1897.	Juan E. Roque Rivera
3:45 pm	Caguas' development during the XIX century.	Katia Gil de Lamadrid
4:00 pm	Preguntas	

Presentación de Afiches

Número	Tópico	Título	Presentador
1	Business and Entrepreneurship	The Effect of the Dominican Republic-Central America Free Trade Agreement (DR-CAFTA) in the Economical Development of Puerto Rico	Greighton F. Torres
2	Business and Entrepreneurship	Identificación de los factores determinantes de éxito en una muestra de la región centro-oriental de Puerto Rico	Carlos G. Colon Bermudez
3	Business and Entrepreneurship	Art stimulates CD4 cell counts in patients with HIV	Graciela Lodeiro
4	Education	Predominant Leadership styles of educational supervisors and the relationship with job satisfaction level of teachers in Head Start Program of the Administration for Children's and Families (ACUDEN) of Puerto Rico.	Waleska Torres-Gutiérrez
5	Education	Experiences of violence in dating relationships of women in Puerto Rico during their adolescence.	Nayda E. Morales Díaz
6	Education	Study case of a very special karate teacher with Down Syndrome.	Adolfo López Alemán
7	Engineering	Experimental effect of input parameters on a 50 w single pem fuel cell	Naomi Llinas
8	Engineering	Energy Consumption Characterization of Privacy Preserving Algorithms for Participatory Sensing Systems	Nelson Rivera
9	Engineering	Kerr microscopy system: studying the magneto optical Kerr effect	Ronald García
10	Health Sciences	Electronic Protection Health Information Policy Implementation	Cesar Salas
11	Science and Technology	Community Structure of Alkane-Degrading Bacteria across Ecosystems in Puerto Rico	Yomarie Bernier-Casillas
12	Science and Technology	Photocatalytic Hydrogen Production by Water Splitting Using Au@TiO ₂ Nanowires Under UV-Vis Light Irradiation	Maria Cotto
13	Science and Technology	Management Recommendations for the Reintroduction of the Puerto Rican crested toad (<i>Peltophryne lemur</i>) to the El Tallonal Natural Reserve, Arecibo, Puerto Rico	Ingrid M. Flores- Vallejo
14	Science and Technology	What seashells and bones tell us about historic use by the native indigenous people that inhabited the present Cabezas de San Juan area, Fajardo Puerto Rico.	Viviana González y Karen Ocasio
15	Science and Technology	Where are mangrove arthropods going?	Mariely Díaz, Juan Mendoza y Gisel Ortiz
16	Science and Technology	Diversity In The Habitats Surrounding The Arecibo Observatory In The Northern Karst Of Puerto Rico	Nohelysmaire Delgado
17	Science and Technology	Unprecedented Catalytic Activity of CuO Nanorods Synthesized by Hydrothermal Approach	Francisco Márquez
18	Science and Technology	Controlled synthesis of carbon nanospheres	Alejandra Cartagena
19	Science and Technology	Development of Hyperbranched Silicon Nanowires for Photovoltaic Applications	Annette Malavé
20	Science and Technology	High-density growth of Si nanowires on silica nanospheres	Francisco Márquez
21	Science and Technology	Photocatalytic hydrogen production by water splitting using ZnCdFeCuS nanoparticles under UV-vis light irradiation	Abraham García

22	Science and Technology	Arthropod recovery in secondary forests in the Jobos Bay area, Salinas, Puerto Rico	Sharon Encarnación, Annette Torres y Linette Torres
23	Science and Technology	Controlled synthesis of Si nanowires on Si substrates	Francisco Márquez
24	Science and Technology	Synthesis, structure, adsorption space and magnetic properties of Ni-oxalate porous molecular magnet	Christymarie Rivera Maldonado

Agradecimientos

Damos las gracias a todos los miembros del Comité Organizador, Comité Científico del XI Encuentro de Investigadores, a los moderadores de las sesiones concurrentes y a los Becados de Práctica Graduada por la asistencia brindada para el éxito de esta actividad. También agradecemos a la Vicerrectoría de Asuntos Académicos, Planta Física y Operaciones, Seguridad, Centro de Recursos de Información, Instituto Interdisciplinario de Investigación y a la Biblioteca Museo Gobernador Pedro Rosselló. Un especial agradecimiento a la Escuela de Ciencias y Tecnología y su decana la Dra. Lipsett, y a la Escuela Internacional de Diseño y su decana la Arq. Mateo por habernos facilitado equipo técnico para las sesiones concurrentes y para la sesión de afiches.

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