researchers annual meeting

April 5, 2013

Biblioteca Museo Gobernador Pedro Rosselló

Program

8:00 am Registration and Breakfast - Governor Pedro Rosselló Library Museum

8:45 a.m. Welcome - Dr. Sharon A. Cantrell, Dean Doctoral Studies.

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

Moderator: Dr. Jack Allison, Dean of School of Engineering

Panelists:

Mr. Iván Ríos Mena
Executive Director of Puerto Rico Science and Technology Trust
Dr. Alizabeth Sanchez
Assistant Professor of School of Business and Entrepreneurship
Dr. Pedro Rosselló
Former Governor of Puerto Rico
Dr. Roberto Callarotti
Scientific Director of the Puerto Rico Energy Center (PREC)
Dr. Giovanna Guerrero
Executive Director of Ciencia Puerto Rico

11:00 am Posters Presentation – Terrace of the Governor Pedro Rosselló Library Museum

12:00 pm Lunch – Casa Rectoría

1:30 – 4:00 pm Sesiones Concurrentes

Business and Entrepreneurship Section I - AGM 150
Business and Entrepreneurship Section II - AGM 151
Engineering Section I - AGM 152
Engineering Section II - AGM 153
Science and Technology Section I - AGM 154
Section of Science and Technology II - AGM 155
Section of Sciences and Technology III - AGM 156
Section of Health Psychology - AGM 250
Education Section - 250 AGM
Panel I - Reading: theory and praxis - AGM 251
Panel II - An approach to the history of the central-eastern region - AGM 251

4:30 pm Activity Acknowledgement of Scientific Authors and Professor / Researcher Featured - Governor Pedro Rosselló Library Museum

5:30 pm Cocktail

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Business and Entrepreneurship Section - AGM 150, Moderator: Juan C. Sosa

Hour	Title	Presenter
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

Business and Entrepreneurship Section- AGM 151, Moderator: Julio C. Hernández

Hour	Title	Presenter
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

Engineering Section - AGM 152, Moderator: José Santiváñez

Hour	Title	Presenter
1:30 pm	Microwave heating of down well extra heavy oil	Roberto C. Callarotti
1:45 pm	Cloud Computing Security and Privacy	Jeffrey l. 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
3:45 pm	The Research in Industrial design	Charlie Góngora

Engineering Section - AGM 153, Moderator: Yahya Masalmah

Hour	Title	Presenter
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

Science and Technology Section – AGM154, Moderator: Adrinel Vazquez

Hour	Title	Presenter
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 *Mycoplasma*	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

Science and Technology Section – AGM155, Moderator: Olga Quintero

Hour	Title	Presenter
1:30 pm	Fish species diversity at three different river ecosystems in Puerto Rico	Antonio E. Carro-Anzalotta
1:45 pm	Fungal Endophytes from *Spathodea campunalata* in Puerto Rico	José I. Cruz-Rodríguez,
2:00 pm	Synthesis Nano-sized (Ba0.5Sr0.5)1-xNdxCo0.8Fe0.2O3-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

Science and Technology Section – AGM156, Moderator: Eddie Laboy

Hour	Title	Presenter
1:30 pm	Population Trends in West Indian Whistling Ducks and other *Dendrocygna* 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 *Tillandsia recurvata* 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

Health and Psychology Section– AGM 250, Moderator: Edna Oyola

Hour	Title	Presenter
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 Foucaltian subjectivity	María Navarro Chento

Education Section – AGM 250, Moderator: Edna Oyola

Hour	Title	Presenter
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: Reading: Theory and Praxis -– AGM 251, Moderator: Beatriz Cruz Sotomayor

Hour	Title	Presenter
1:30 pm	Reading, Writing, Object: anti-disciplinary research and its context	Carlos Cordero Cancio
1:45 pm	Books and Readers in Higher Educaction: 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, Moderator: Felix Huertas

Hour	Title	Presenter
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	

Poster Presentations

Number	Topic	Title	Presenter
1	Business and Entrepreneurship	The Effect of the Dominican Republic-Central America Free Trade Agreement (DR-CAFTA) in the Economical D evelopment of Puerto Rico	Greighton F. Torres
2	Business and Entrepreneurship	Identificacion de los factores determinantes de exito en una muestra de la region centro-oriental de Puerto Rico	Carlos G. Colon Bermudez
3	Business and Entrepreneurship	Art stimulates CD4 cel counts in patients with HIV	Graciela Lodeiro
4	Business and Entrepreneurship	Desarrollo del capital humano desde la organización familiar con la intervención de la psicología industrial/organizacional en un grupo de familias en el área sur y norte de puerto rico	Sandra Velez Candelario
5	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
6	Education	Experiences of violence in dating relationships of women in Puerto Rico during their adolescence.	Nayda E. Morales Díaz
7	Education	Study case of a very special karate teacher with Down Syndrome.	Adolfo López Alemán
8	Engineering	Experimental effect of input parameters on a 50 w single pem fuel cell	Naomi Llinas
9	Engineering	Energy Consumption Characterization of Privacy Preserving Algorithms for Participatory Sensing Systems	Nelson Rivera
10	Engineering	Kerr microscopy system: studying the magneto optical Kerr effect	Ronald García
11	Health Sciences	Electronic Protection Health Information Policy Implementation	Cesar Salas
12	Science and Technology	Community Structure of Alkane-Degrading Bacteria across Ecosystems in Puerto Rico	Yomarie Bernier-Casillas
13	Science and Technology	Photocatalytic Hydrogen Production by Water Splitting Using Au@TiO2 Nanowires Under UV-Vis Light Irradiation	Maria Cotto
14	Science and Technology	Management Recommendations for the Reintroduction of the Puerto Rican crested toad (*Peltophryne lemur*) to the El Tallonal Natural Reserve, Arecibo, Puerto Rico	Ingrid M. Flores-Vallejo
15	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 Gonzalez y Karen Ocasio
16	Science and Technology	Where are mangrove arthropods going?	Mariely Díaz, Juan Mendoza y Gisel Ortiz

17	Science and Technology	Diversity In The Habitats Surrounding The Arecibo Observatory In The Northern Karst Of Puerto Rico	Nohelysmarie Delgado
18	Science and Technology	Unprecedented Catalytic Activity of CuO Nanorods Synthesized by Hydrothermal Approach	Francisco Márquez
19	Science and Technology	CONTROLLED SYNTHESIS OF CARBON NANOSPHERES	Alejandra Cartagena
20	Science and Technology	Development of Hyperbranched Silicon Nanowires for Photovoltaic Applications	Annette Malavé
21	Science and Technology	High-density growth of Si nanowires on silica nanospheres	Francisco Márquez
22	Science and Technology	Photocatalytic hydrogen production by water splitting using ZnCdFeCuS nanoparticles under UV-vis light irradiation	Abraham García
23	Science and Technology	Arthropod recovery in secondary forests in the Jobos Bay area, Salinas, Puerto Rico	Sharon Encarnación, Annette Torres y Linette Torres
24	Science and Technology	CONTROLLED SYNTHESIS OF Si NANOWIRES ON Si SUBSTRATES	Francisco Márquez
25	Science and Technology	SYNTHESIS, STRUCTURE, ADSORPTION SPACE AND MAGNETIC PROPERTIES OF NI-OXALATE POROUS MOLECULAR MAGNET	Christymarie Rivera Maldonado

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