

ORAL SESSIONS

- Agricultural Sciences
- Chemistry
- Computer Sciences
- Education
- Electronics
- Engineering
- Environmental Science
- Geosciences
- Life Sciences
- Mathematics
- Physics

Agricultural Science

Session: 01

Room: 113

Moderator: Prof. Concepción Rodríguez-UPR-Mayaguez

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Agricultural Sciences 01]</i> Aponte, Deylen UPR-CAYEY	<i>Effect of the distinct concentrations of hormones and studying the Development of the African Violet using Tissue Culture</i>
1:45PM → 2:05PM	<i>[Agricultural Sciences 02]</i> Bermudez, Yara UPR-CAYEY	<i>Population study of the termite species <i>Reticulitermes lucifugu</i> from the Termitidae family at two different sites at the UPR-Cayey</i>

Chemistry

Session: 01

Room: 102

Moderator: Prof. Néstor Velásquez-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Chemistry 01]</i> Abel, Emely UPR-RIO PIEDRAS	<i>Chemical Reduction of Platinum on Diamond Nanoparticles for Fuel Cell Applications</i>
11:20AM → 11:40AM	<i>[Chemistry 02]</i> Alvelo, Jesús G. UPR-RIO PIEDRAS	<i>Preservation of protein stability upon dehydration with organic solvents</i>
11:40AM → 12:00PM	<i>[Chemistry 03]</i> Amaro, Alexandra UPR-RIO PIEDRAS	<i>Synthesis of parthenolide analogs as anti-leukemia agents</i>

12:00MD -> 1:30PM

Lunch Break

Moderator: Prof. Néstor Velásquez-UPR-Arecibo

1:45PM -> 2:05PM

[Chemistry 04]
Andujar,Ivonne
UPR-RIO PIEDRAS

Impact Of 8-Heteroaryl-2'-Deoxyguanosine analogues on G-Quadruplex formation

2:05PM -> 2:25PM

[Chemistry 05]
Aúsua,Migray
PUCPR

Determinacion de metales en el particulado del Aire en Guayama, Puerto Rico

2:25PM -> 2:45PM

[Chemistry 06]
Báez,Pedro
UPR-MAYAGUEZ

Development of a Sol-Gel Based Electrochemical Biosensor for the detection of Hydrogen Sulfide.

2:45PM -> 3:05PM

[Chemistry 07]
Barbosa,Cindy
UPR-RIO PIEDRAS

Chemosensing applications of Binuclear Platinum(II) complex intercalated into Zirconium Phosphate Layers

3:05PM -> 3:25PM

[Chemistry 08]
Benitez,Jamaries
UPR-MAYAGUEZ

Systematic Studies of the Total Suspended Particulate in Mayaguez, Puerto Rico

Session: 02

Room: 204

Moderator: Prof. Vanessa Montalvo-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Chemistry 09]</i> Bermudez,Angel UPR-RIO PIEDRAS	<i>Pt/GC, Pt/CeO2/GC , Pt/Ru/GC and Pt/Ru/CeO2/GC Electrode Preparation in Order to Understand Role of CeO2 in Methanol Oxidation: An Electrochemical Study.</i>
11:20AM -> 11:40AM	<i>[Chemistry 10]</i> Burgos,Melisa UPR-MAYAGUEZ	<i>Expression and Purification of Recombinant Hemoglobin II from the clam <i>Lucina pectinata</i></i>
11:40AM -> 12:00PM	<i>[Chemistry 11]</i> Butler, Madeline UPR-ARECIBO	<i>Rio Grande de Arecibo Chemical Parameters Determination</i>

12:00MD -> 1:30PM

Lunch Break

Moderator: Prof. Carmelo García-UPR Humacao

1:45PM ->2:05PM

[Chemistry 12]
Camacho-Soto,Karla
UPR-RIO PIEDRAS

Synthesis and Characterization of Dendronized 8-Aryl-2'-Deoxyguanosine Derivatives

2:05PM -> 2:25PM

[Chemistry 13]
Capellan,Ivelisse
UPR-RIO PIEDRAS

Intercalation of Methylene Blue in Zirconium Phosphates

2:25PM -> 2:45PM

[Chemistry 14]
Caraballo,Cynthia
UPR-MAYAGUEZ

Environmental impact of acid rain episodes in the Island of Puerto Rico

2:45PM -> 3:05PM

[Chemistry 15]
Carrero,Zunamys
UPR-MAYAGUEZ

Bulk Density and Concentration Analysis for Different APAP Formulations Using NIR Spectroscopy

3:05PM - >3:25PM

[Chemistry 16]
Chamoun,Ana
UPR-MAYAGUEZ

Synthesis of Gold Nanorods at Different Aspect Ratio for Surface-Enhanced Raman Spectroscopy (SERS) Applications

Session: 03

Room: 205

Moderator: Prof. Angel Montes-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Chemistry 17]</i> Collazo,Aura L. UPR-RIO PIEDRAS	<i>Host-Guest Properties of Self-Assembled Dendrimers</i>
11:20AM ->11:40AM	<i>[Chemistry 18]</i> Cruz,Jose UPR-MAYAGUEZ	<i>Rates and Mechanisms of [60] Fullerene Dissociation from Vaska's Complex</i>
11:40AM ->12:00PM	<i>[Chemistry 19]</i> Cruz-Ramírez de Arellano,Daniel UPR-RIO PIEDRAS	<i>Synthesis and Supramolecular Properties of 8-Arylguanine-N9-Acetic Acid Derivatives</i>

12:00MD -> 1:30PM

Lunch Break

Moderator: Prof. Angel Montes-UPR-Arecibo

1:45PM -> 2:05PM

[Chemistry 20]
David, Amanda
UPR-RIO PIEDRAS

Encapsulation of Insulin into Inorganic Layered Materials Envisioned as

2:05PM -> 2:25PM

[Chemistry 21]
De la Torre, Sonia
UPR-RIO PIEDRAS

A Greener Approach for Oxidations Reactions

2:25PM -> 2:45PM

[Chemistry 22]
Del Moral, Giana
UPR-HUMACAO

Study of gold surface modified with Mercapto Compounds

2:45PM -> 3:05PM

[Chemistry 23]
Del Pilar, Joselyn
UPR-RIO PIEDRAS

Electrochemical DNA Biosensor Arrays Using Funcionalized Polystyrene Films

3:05PM -> 3:25PM

[Chemistry 24]
Delgado, Yamixa
UPR-HUMACAO

Active-site electron paramagnetic resonance studies of subtilisin Carlsberg dissolved and suspended in 1,4-dioxane: relationship between enzyme activity and flexibility.

Session: 04

Room: 105

Moderator: Prof. Emiliano García-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:00AM	<i>[Chemistry 25]</i> Diaz, Veronica UPR-RIO PIEDRAS	<i>Intercalation of an Octanuclear Iron Pyrazolate in a Zirconium Phosphate Framework</i>
11:20AM -> 11:40AM	<i>[Chemistry 26]</i> Fonseca, José UPR-RIO PIEDRAS	<i>Direct Methanol Fuel Cells Parameters Optimization</i>
11:40AM -> 12:00PM	<i>[Chemistry 27]</i> Fragoso, Ivonne UPR-RIO PIEDRAS	<i>A novel methodology to determine the presence of β-N-methylamino-L-alanine neurotoxin in natural waters.</i>

12:00MD -> 1:30PM

Lunch Break

Moderator: Prof. Emiliano García-UPR-Arecibo

1:45PM -> 2:05PM

[Chemistry 28]
Fuentes, Josie
UPR-HUMACAO

Singlet State Energy of Phenothizines

2:05PM -> 2:25PM

[Chemistry 29]
Hernández, Dionne
UPR-RIO PIEDRAS

Photophysics And Photochemistry of Imipramine, Desimipramine and Clomipramine in several solvents: a Fluorescence, 266 Nm Laser Flash and theoretical study

2:25PM -> 2:45PM

[Chemistry 30]
Hidalgo, Migdalia
UPR-MAYAGUEZ

Sorption of VOCs and PAHs onto crumb rubber from aqueous solutions

2:45PM -> 3:05PM

[Chemistry 31]
Ibarra, Kristal
UPR-RIO PIEDRAS

Can We See the Impact of Anthropogenic Pollution in El Yunque National Forest?

3:05PM -> 3:25PM

[Chemistry 32]
Karry, Krizia
UPR-MAYAGUEZ

Near-Infrared Spectroscopy as a reliable method for the detection of Physical and Chemical property changes

Session: 05

Room: 108

Moderator: Prof. Ivonne Fernández-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Chemistry 33]</i> Kuilan, Laurimer UPR-RIO PIEDRAS	<i>The Analysis of Pharmaceutical Compounds in Natural Waters by High Performance Liquid Chromatography (HPLC-PDA)</i>
11:20AM -> 11:40AM	<i>[Chemistry 34]</i> Laboy, Kristie UPR-MAYAGUEZ	<i>Evaluation of GEL strip homogeneity using</i>

11:40AM → 12:00PM	<i>[Chemistry 35]</i> Lajara,Mirta UPR-MAYAGUEZ	<i>Chemical composition of the fragrance of the flower of “Sansevieria Trifasciata Laurenti” by SPME/GC-MS: perfume applications</i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Maiella L. Ramos-UPR-Arecibo	
1:45PM → 2:05PM	<i>[Chemistry 36]</i> Latorre,Elena UPR-MAYAGUEZ	<i>Synthesis of Fluorescent Nanoparticles for Use as Biosensors</i>
2:05PM → 2:25PM	<i>[Chemistry 37]</i> Leon,Joshua UPR-MAYAGUEZ	<i>Analysis of low content drug tablets by transmission near infrared spectroscopy. selection of calibration ranges according to multivariate detection and quantitation limits of PLS models</i>
2:25PM → 2:45PM	<i>[Chemistry 38]</i> Lopez,Rebeca UPR-MAYAGUEZ	<i>Characterization of the Chemical Composition of the flower fragrance of “Sansevieria Cylindric” plant by SPME/GC-MS: Perfume Applications</i>
2:45PM → 3:05PM	<i>[Chemistry 39]</i> Lorenzo,Camille UPR-RIO PIEDRAS	<i>Platinum deposits on carbon films prepared by supercritical CO2 methods</i>
3:05PM → 3:25PM	<i>[Chemistry 40]</i> Lugo,Leyda PUCPR	<i>Electron transfer kinetic study of Quinonoid compounds influenced by the presence of bismuth in solution at platinum polycrystalline electrodes, in acid electrolyte.</i>

Session: 06

Room: 208

Moderator: Prof. Zwinda Rivera-UIPR-San Germán

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Chemistry 41]</i> Marcano, Aileen UPR-RIO PIEDRAS	<i>Electrochemical Characterization of 1-ferrocenyl- 3-(p-nitrophenyl)prop-2-en-1- one</i>
11:20AM → 11:40AM	<i>[Chemistry 42]</i> Marchany, Darya UPR-MAYAGUEZ	<i>Crystallization of sulfhemoglobin</i>
11:40AM → 12:00PM	<i>[Chemistry 43]</i> Márquez, Eduardo A. UPR-MAYAGUEZ	<i>Synthesis of a Clavilier-type Pt(100) Single Crystal Electrode</i>

12:00MD -> 1:30PM

Lunch Break

Moderator: Prof. Zwinda Rivera-UIPR-San Germán

1:45PM → 2:05PM	<i>[Chemistry 44]</i> Martinez, Michelle UPR-RIO PIEDRAS	<i>DNA-AC1/70 complex Crystallization</i>
2:05PM → 2:25PM	<i>[Chemistry 45]</i> Mateo, Daniel UPR-MAYAGUEZ	<i>Determination of the rate constant of the oxidation of copper ion with Hydrogen peroxide in presence of KCl using cyclic voltammetric techniques</i>
2:25PM → 2:45PM	<i>[Chemistry 46]</i> Melendez Gonzalez, Hector J UPR-HUMACAO	<i>Efficient Synthesis of Enantiopure Primary Amines via the Asymmetric Reduction of Oximes Ether using the Spiroborate Ester / Borane System as Catalyst.</i>
2:45PM → 3:05PM	<i>[Chemistry 47]</i> Merced, Francisco UPR-HUMACAO	<i>Synthesis of Highly Enantiopure Chroman-4 and Thiochroman-4- Amines by the Catalytic Reduction of Oxime O-Benzyl Ethers using the Novel Spiroborate Ester / Borane System</i>

3:05PM → 3:25PM

[Chemistry 48]
Miller,Andrismery
UPR-RIO PIEDRAS

Characterization of ferrocene derivatives intercalated in zirconium phosphate layers

Session: 07

Room: 209

Moderator: Prof. Rolando Tremont-UPR-Humacao

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Chemistry 49]</i> Molina-Calzada,Anna UPR-RIO PIEDRAS	<i>Optimization of the Derivatization Step for the Analysis of Pharmaceutical Compounds in Natural Waters of Puerto Rico with Gas Chromatography/Mass Spectrometry (GC-MS)</i>
11:20AM → 11:40AM	<i>[Chemistry 50]</i> Morales,Keyla F. UPR-RIO PIEDRAS	<i>Cleavage of epoxides with functionalized alkynylaluminum reagents</i>
11:40AM → 12:00PM	<i>[Chemistry 51]</i> Nieves,Abner UPR-MAYAGUEZ	<i>The study between the reaction of Hbl(FeIII) with H2S.</i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Rolando Tremont-UPR-Humacao	
1:45PM → 2:05PM	<i>[Chemistry 52]</i> Ojeda,Geovannie UPR-RIO PIEDRAS	<i>Detection of FAEEs in skin surface lipids as biomarkers of ethanol consumption in alcoholics, social drinkers, sporadic drinkers and teeotalaters using a methodology based on microwave-assisted extraction followed by solid phase micro extraction and gas c</i>
2:05PM → 2:25PM	<i>[Chemistry 53]</i> Oquendo,Luis UPR-RIO PIEDRAS	<i>Self-Assembled Dendrimers Based on 8-Aryl-2'-Deoxyguanosine Derivatives: Synthesis & Thermosensitive Properties</i>

2:25PM → 2:45PM	<i>[Chemistry 54]</i> Ortiz, Katia UPR-MAYAGUEZ	<i>Cloning of hCen2 F5W mutant into an expression vector containing hsf1</i>
2:45PM → 3:05PM	<i>[Chemistry 55]</i> Otero, Ariel UPR-CAYEY	<i>Green Oxidation of Alcohols to Aldehydes and Ketones</i>
3:05PM → 3:25PM	<i>[Chemistry 56]</i> Pagan Miranda, Coral UPR-RIO PIEDRAS	<i>Deposition of Carbon Nanotubes of DNA and Mercaptohexanol Self-Assembled Monolayers</i>

Session: 08

Room: E-104

Moderator: Prof. Rosa Brito Gómez-UIPR Recinto Metropolitano

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Chemistry 57]</i> Pérez, Riviam UPR-RIO PIEDRAS	<i>Intercalation of cisplatin in inorganic layers complexes</i>
11:20AM → 11:40AM	<i>[Chemistry 58]</i> Perez, Zulmarie UPR-RIO PIEDRAS	<i>Biotesting of Caribbean Sponges for Antituberculosis Bioactivity</i>
11:40AM → 12:00PM	<i>[Chemistry 59]</i> Pietri, Frances UPR-MAYAGUEZ	<i>Determining the limit of H₂S needed in the reaction of Hbl(FeIII)H₂S + e⁻ → Hbl(FeII) + H₂S (deliver) for the formation of the deoxy product</i>

12:00MD → 1:30PM

Lunch Break

Moderator: Prof. Rosa Brito Gómez-UIPR Recinto Metropolitano

1:45PM → 2:05PM	<i>[Chemistry 61]</i> Ramos, Anjuli UPR-RIO PIEDRAS	<i>Photophysical behavior of 1,3- and 1,6-dinitropyrene in solution</i>
2:05PM → 2:25PM	<i>[Chemistry 60]</i> Ramos, Carmen UPR-ARECIBO	<i>Bacterial Inhibition starting from brown algae: Padina gymnospora</i>
2:25PM → 2:45PM	<i>[Chemistry 62]</i>	<i>Platinum surfaces modified with</i>

	Reyes, Evlin UIA-METRO	<i>3-mercaptopropionic acid, and 16-Mercaptohexadecanoic acid at different conditions: An electrochemical study</i>
2:45PM -> 3:05PM	<i>[Chemistry 63]</i> Rios-Pagan, Annette UPR-RIO PIEDRAS	<i>Electrochemical Sensing of DNA Chemically Attached to Self-Assembled Monolayers on Gold Substrates</i>
3:05PM -> 3:25PM	<i>[Chemistry 64]</i> Rivera, Adriana UPR-RIO PIEDRAS	<i>Synthesis of the 5-pentacosynoic and 9-pentacosynoic Acids</i>

Session: 09

Room: E-106A

Moderator: Prof. Fernando Herrera-UPR Arcibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Chemistry 65]</i> Rivera, Christian UPR-MAYAGUEZ	<i>Reactivity of hydrogen sulfide with immobilized hemoglobin in a matrix of Tetramethylortosilicate</i>
11:20AM -> 11:40AM	<i>[Chemistry 66]</i> Rivera, Danisha M. UPR-RIO PIEDRAS	<i>Second generation epoxide based methodology: The use of oxygenated alkynyl aluminum reagents as epoxide cleaving agents</i>
11:40AM -> 12:00PM	<i>[Chemistry 67]</i> Rivera, Izarys UPR-RIO PIEDRAS	<i>Increasing the stability of proteins by covalent modification with poly(ethylene) glycol</i>
12:00MD -> 1:30PM	Lunch Break	
	Moderator: Prof. Fernando Herrera-UPR Arcibo	
1:45PM -> 2:05PM	<i>[Chemistry 68]</i> Rivera-Negrón, Jose Roberto UPR-MAYAGUEZ	<i>Characterization of Volatile Organic Compounds in Drinking Water supplies in Puerto Rico by SPME/GC-MS</i>

2:05PM → 2:25PM	<i>[Chemistry 69]</i> Rivera-Vélez, Nelson E. UPR-RIO PIEDRAS	<i>Study of Ionic Strength Effect on Non-Covalent DNA-CNT Composite Formation</i>
2:25PM → 2:45PM	<i>[Chemistry 70]</i> Rodriguez, Gabriel G. UPR-RIO PIEDRAS	<i>DNA Electrochemical Bio-Sensor Support Using Pt Nano-Particles on Carbon Black</i>
2:45PM → 3:05PM	<i>[Chemistry 71]</i> Rodriguez, Josiris UPR-MAYAGUEZ	<i>Oxidation of hemoglobins II and III from the clam <i>Lucina Pectinata</i></i>
3:05PM → 3:25PM	<i>[Chemistry 72]</i> Rosa, Kellymar UPR-RIO PIEDRAS	<i>Grignard-Based Epoxide Coupling Methodology: Application to Polypropionate Synthesis</i>

Session: 10

Room: 201

Moderator: Prof. Fabio Alape-UPR Humacao

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Chemistry 73]</i> Rosado, Arellys UPR-RIO PIEDRAS	<i>Design, Construction and Analytical Characterization of a DNA Sensor for the Detection of Salmonella</i>
11:20AM → 11:40AM	<i>[Chemistry 74]</i> Santiago, Jorge UPR-MAYAGUEZ	<i>Protein expression and isolation of recombinant Human SFI1</i>
11:40AM → 12:00PM	<i>[Chemistry 75]</i> Santiago, Miguel UPR-RIO PIEDRAS	<i>Development of ssDNA covalently modified with Polyvinylferrocene for electrochemical detection and isolation of a specific DNA sequence.</i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Fabio Alape-UPR Humacao	
1:45PM → 2:05PM	<i>[Chemistry 76]</i>	<i>Characterization of the wetting</i>

	Sepulveda,Melyorise UPR-MAYAGUEZ	<i>transition using replica exchange Monte Carlo</i>
2:05PM → 2:25PM	<i>[Chemistry 77]</i> Silva,Diana UPR-RIO PIEDRAS	<i>Total synthesis of the novel (5Z,9Z)-2-methoxy-5,9- octadecadienoic acid</i>
2:25PM → 2:45PM	<i>[Chemistry 78]</i> Sosa,Brian UPR-RIO PIEDRAS	<i>Encapsulation of horseradish peroxidase nano-particles in poly(lactic-co-glycolic) acid microspheres</i>
2:45PM → 3:05PM	<i>[Chemistry 79]</i> Soto-Feliciano,Yadira M. UPR-MAYAGUEZ	<i>Detection of DNA nucleotides using Surface-Enhanced Raman Spectroscopy (SERS) on Gold Nanorods</i>
3:05PM → 3:25PM	<i>[Chemistry 80]</i> Sotomayor,Janice PUCPR	<i>Identification of cytochrome P450 isoenzymes present in Cho Cells treated with Bay Laurel extracts</i>

Session: 11

Room: 211

Moderator: Prof. Cándida Peña-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Chemistry 81]</i> Suarez,Ginamaria UPR-MAYAGUEZ	<i>Phytoremediation of soils with TNT by Rubia tinctorum</i>
11:20AM → 11:40AM	<i>[Chemistry 82]</i> Torres,Rafael E UPR-RIO PIEDRAS	<i>Room-Temperature Luminescence of Platinum(II) Complexes Intercalated into Zirconium Phosphate Layers</i>
11:40AM → 12:00PM	<i>[Chemistry 83]</i> Torres,Zally UPR-HUMACAO	<i>Thermal denaturation of subtilisin C. in Acetonitrile/H₂O mixtures</i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Cándida Peña-UPR-Arecibo	
1:45PM → 2:05PM	<i>[Chemistry 84]</i>	<i>Asymmetric Borane Reduction</i>

	Torruellas, Carilyn UPR-HUMACAO	<i>of 2-Chloro Acetophenone Catalyzed by the Spiroborate Ester Derived from (S)-Diphenyl Prolinol</i>
2:05PM → 2:25PM	<i>[Chemistry 85]</i> Valle, Carlos UPR-RIO PIEDRAS	<i>Photophysical Characterization of 1-nitropyrene in Different Solvents</i>
2:25PM → 2:45PM	<i>[Chemistry 86]</i> Vargas, Wandylis UPR-MAYAGUEZ	<i>Evaluation of Strain and Shear Effects in Pharmaceutical Lubricated Blends using Near Infrared Spectroscopy</i>
2:45PM → 3:05PM	<i>[Chemistry 87]</i> Vargas-Barbosa, Nella Marie UPR-RIO PIEDRAS	<i>Carbon Nanotubes Covalently Attached on Gold as Substrate for Electrochemical DNA Sensing</i>
3:05PM → 3:25PM	<i>[Chemistry 88]</i> Vazquez, Cindybeth UPR-HUMACAO	<i>Highly Enantioselective Reduction of Thiofuranyl Ketones and Thiochromanones with Borane and the Spiroborate Ester derived from (S)-Diphenyl Prolinol as Catalyst</i>

Session: 12

Room: 113

Moderator: Prof. Sylka Torres-UPR-Arecibo

Time	Speaker and affiliation	Title
11:20AM → 11:40AM	<i>[Chemistry 89]</i> Vázquez, Soleyl UPR-RIO PIEDRAS	<i>Total Synthesis of the novel 2,6- docosadiynoic acid</i>
11:40AM → 12:00PM	<i>[Chemistry 90]</i> Velez, Denisse UPR-RIO PIEDRAS	<i>Formation of protein nanoparticles by the use of methyl-β-cyclodextrin</i>
12:00MD → 1:30PM		Lunch Break
2:05PM → 2:25PM	<i>[Chemistry 91]</i> Vélez, Pedro J.	<i>Análisis de Metales en las aguas subterráneas</i>

	PUCPR	<i>circundantes al vertedero de Desperdicios Sólidos de Guayama, Puerto Rico</i>
2:25PM → 2:45PM	<i>[Chemistry 92]</i> Villanueva Birriel,Cecille UPR-RIO PIEDRAS	<i>Physical and Radiative Properties of Aerosol Particles in the Caribbean: Influence of African Dust and Volcanic Ash from the Soufrière Hills Volcano</i>
2:45PM → 3:05PM	<i>[Chemistry 93]</i> Zayas,Francisco UPR-MAYAGUEZ	<i>Synthesis of Fluorescent Nanoparticles for Use as Biosensors</i>

Computer Science

Session: 01

Room: 115

Moderator: Prof. Edward Latorre-UPR-Arecibo

Time	Speaker and affiliation	Title
1:45PM → 2:05PM	<i>[Computer Sciences 01]</i> Alicea,Emmanuel UIA-BAYAMON	<i>Linux-Based Computer Cluster for High-Performance Processing</i>
2:05PM → 2:25PM	<i>[Computer Sciences 02]</i> Diaz,Humberto UPR-MAYAGUEZ	<i>Game Engine Development for the Integration of CS Teaching Modules</i>
2:25PM → 2:45PM	<i>[Computer Sciences 03]</i> Merced Serrano,Myrna UPR-HUMACAO	<i>Improving Usability of Molecular Dynamics Simulation Software</i>
2:45PM → 3:05PM	<i>[Computer Sciences 04]</i> Rios,Miguel UPR-MAYAGUEZ	<i>Design and Development of a Web--based Monitoring System for Photovoltaic Applications</i>
3:05PM → 3:25PM	<i>[Computer Sciences 05]</i> Rivera,Axel UPR-HUMACAO	<i>A Methodology to determine the number of Clusters in unsupervised Hyperspectral image classification</i>

Education

Session: 01

Room: Conference Room, Library

Moderator: Prof. Ivette Martínez-UPR-Arecibo

Time	Speaker and affiliation	Title
2:05PM → 2:25PM	<i>[Education 01]</i> Ramos,Rafael UPR-RIO PIEDRAS	<i>The use of the Evaluation portfolio in the organic chemistry laboratory as an Assessment technique</i>
2:45PM → 3:05PM	<i>[Education 02]</i> Rodriguez,Lisabel UPR-RIO PIEDRAS	<i>Using a Dynamic Simulation Environment to Improve General Chemistry Concepts Learning.</i>

Electronics

Session: 01

Room: Conference Room, Library

Moderator: Prof. Carlos Maldonado-UPR-Arecibo

Time	Speaker and affiliation	Title
2:25PM → 2:45PM	<i>[Electronics 01]</i> Carballo,Jonathan UPR-BAYAMON	<i>Controlling a Robotic Arm using a Microcontroller and the Protocol TCP-IP</i>
3:05PM → 3:25PM	<i>[Electronics 02]</i> Villafañe,Marisel UPR-BAYAMON	<i>Dynamic Simulation of Biological Black Holes in Neural Circuits</i>

Engineering

Session: 01

Room: 109

Moderator: Prof. Hirohito Torres-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Engineering 22]</i> Rivera,Jeffrey UPR-MAYAGUEZ	<i>Dynamic model of Residential Photovoltaic Energy production in PR Part 1: Model assumptions and purposes</i>
11:20AM -> 11:40AM	<i>[Engineering 06]</i> Cora,Armando UPR-MAYAGUEZ	<i>Dynamic model of Residential Photovoltaic Energy production in PR</i>
11:40AM -> 12:00PM	<i>[Engineering 27]</i> Román,Tania UPR-BAYAMON	<i>Dynamic model of Residential Photovoltaic Energy production in PR</i>

12:00MD -> 1:30PM

Lunch Break

Moderator: Prof. Hirohito Torres-UPR-Arecibo

1:45PM -> 2:05PM	<i>[Engineering 01]</i> Ares,Samuel UPR-MAYAGUEZ	<i>Parametric Characterization of Planar Micro-Pore Single-Cell Electroporation</i>
2:05PM -> 2:25PM	<i>[Engineering 02]</i> Avilés-Barreto,Sonia L. UPR-MAYAGUEZ	<i>Rheology of Silica Nanoparticles Dispersions in a Polymer Matrix</i>
2:25PM -> 2:45PM	<i>[Engineering 03]</i> Cantres,Ninoshka UPR-MAYAGUEZ	<i>Is it possible to use recycled metallic matrix composites for new applications?</i>
2:45PM -> 3:05PM	<i>[Engineering 04]</i> Carrasquillo,Ronald UPR-MAYAGUEZ	<i>Influence of centrifugal casting processing parameters on the distribution of reinforcing particles in aluminum matrix composites</i>
3:05PM -> 3:25PM	<i>[Engineering 05]</i> Cedeno,Felix UPR-MAYAGUEZ	<i>Low Power Consumption Software for Cochlear Implants</i>

Session: 02

Room: 110

Moderator: Prof. Eduardo Perez-UIPR-Bayamon

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Engineering 07]</i> Cortes,Angel UPR-MAYAGUEZ	<i>Synthesis and Characterization of Dextran Coated Mn/Zn-Ferrite Nanoparticles for Cancer Treatment Applications</i>
11:20AM -> 11:40AM	<i>[Engineering 08]</i> Cruz,Benjamin UPR-MAYAGUEZ	<i>Pressure Drop Across a Pin Fin Array</i>
11:40AM -> 12:00PM	<i>[Engineering 9]</i> Duarte,Pablo UPR-MAYAGUEZ	<i>Denitrification of Zeolite Cancrinite for the Templated Synthesis of Nanostructures.</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Hien Vo-UIPR-Bayamon		
1:45PM -> 2:05PM	<i>[Engineering 10]</i> Encarnacion,Luis G. UPR-MAYAGUEZ	<i>Generation of Light Continous from Transparent Media</i>
2:05PM -> 2:25PM	<i>[Engineering 11]</i> Espinal,Ana UIA-BAYAMON	<i>Aspect Angle Variations of Stimulated Radio Emissions from the Ionosphere</i>
2:25PM -> 2:45PM	<i>[Engineering 12]</i> Ferreira,Manuel UPR-MAYAGUEZ	<i>Laboratory Modules Design: Learning Object-Oriented Programming with Computer Graphics</i>
2:45PM -> 3:05PM	<i>[Engineering 13]</i> Maldonado,Darlene UIA-BAYAMON	<i>Comparison of critical and underdense generation of Langmuir turbulence</i>
3:05PM -> 3:25PM	<i>[Engineering 14]</i> Martinez,Vonmarie UPR-MAYAGUEZ	<i>How magnetic properties change with temperature, looking for a macro model to explain such observation.</i>

Session: 03

Room: 210

Moderator: Prof. Jaime Yeckle-UIPR Bayamon

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Engineering 15]</i> Mendoza,Riquelmi UPR-MAYAGUEZ	<i>Zirconium and Vanadium Particles in Al-B Composites by Centrifugal Casting</i>
11:20AM -> 11:40AM	<i>[Engineering 16]</i> Morales,Ramon UIA-BAYAMON	<i>Ambiente de simulacion para estudiantes de Ingenieria, matemáticas y ciencias</i>
11:40AM -> 12:00PM	<i>[Engineering 17]</i> Morales- Quinones,Barbara UPR-MAYAGUEZ	<i>Data Collection Protocol for the Quantitative Analysis of CS1/2 Programming Lab Effectiveness</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Rafael Canales-UIPR-Bayamon		
1:45PM -> 2:05PM	<i>[Engineering 18]</i> Pérez,Annette UPR-MAYAGUEZ	<i>Stiffness of fly-ash concrete mixes</i>
2:05PM -> 2:25PM	<i>[Engineering 19]</i> Plaza,Nayomi UPR-MAYAGUEZ	<i>Pin-On-Disk Construction for Tribological Characterization of Al Matrix Composites</i>
2:25PM -> 2:45PM	<i>[Engineering 20]</i> Ramirez Beltran,Manuel A. UPR-MAYAGUEZ	<i>Two-Way Shaped Memory Alloy for an Adaptive Wing Design</i>
2:45PM -> 3:05PM	<i>[Engineering 21]</i> Rios,Angel UPR-MAYAGUEZ	<i>Controlling Firmware for a Micro Gas Chromatograph with Low Power Constraints</i>
3:05PM -> 3:25PM	<i>[Engineering 23]</i> Rivera,Anibal PUCPR	<i>A Data Vector Synchronization Algorithm for NASA's L-band Imaging Scatterometer</i>

Session: 04

Room: 214

Moderator: Prof. Caroline González-UIPR Bayamon

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Engineering 25]</i> Rodriguez, Antonio TURABO UNIVERSITY	<i>C++ Program for Generating Inner TetraCast™ Structure for Investment Casting Filled Models</i>
11:20AM -> 11:40AM	<i>[Engineering 24]</i> Rodriguez, Christie UPR-MAYAGUEZ	<i>Chill-plate effect on the solidification process of Al-B-Cu and Al-B-Mg composites</i>
11:40AM -> 12:00PM	<i>[Engineering 26]</i> Rodriguez-Ruiz, Israel UPR-MAYAGUEZ	<i>Low-temperature aqueous synthesis of ZnO micro- and nanorods</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Reinaldo Soto-UPR-Arecibo		
1:45PM -> 2:05PM	<i>[Engineering 28]</i> Sanchez, Christian UPR-MAYAGUEZ	<i>Abundance Estimation Algorithms Using NVIDIA® CUDA™</i>
2:05PM -> 2:25PM	<i>[Engineering 29]</i> Santiago, Orlando UPR-MAYAGUEZ	<i>Validation of the Hydro Estimator for Puerto Rico Climatic Conditions</i>
2:25PM -> 2:45PM	<i>[Engineering 30]</i> Tirado, Guillermo UPR-MAYAGUEZ	<i>Structural Characterization and optical properties of Er doped Eu2O3 and Gd2O3 nano powders</i>
2:45PM -> 3:05PM	<i>[Engineering 31]</i> Toro, Jaime UPR-MAYAGUEZ	<i>V-Shaped Ribs-Turbulated Cooling</i>
3:05PM -> 3:25PM	<i>[Engineering 32]</i> Torres, Jelisa UPR-MAYAGUEZ	<i>Thermal characterization of a metastable aluminum-boride phase</i>

Session: 05

Room: 115

Moderator: Prof. Brett Isham-UIPR Bayamon

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Engineering 33]</i> Vazquezteell,Reynaldo DR. PEDRO PEREA FAJARDO	<i>Evaluation of two silicon sources for Al-Sn-Si alloys manufacturing using directional solidification</i>
11:20AM -> 11:40AM	<i>[Engineering 34]</i> Vega,Elvin UIA-BAYAMON	<i>Linux-Based Computer Cluster for High-Performance Processing</i>
11:40AM -> 12:00PM	<i>[Engineering 35]</i> Zayas,Yashira UPR-MAYAGUEZ	<i>A Study of the behavior of magnetite nanoparticles coated with fluorescent-thermoreponsive polymers for Magnetic Fluid Hyperthermia (MFH)</i>
12:00MD -> 1:30PM		Lunch Break

Environmental Sciences

Session: 01

Room: 103

Moderator: Prof. Julio Ortiz-UPR-Bayamon

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Enviromental Sciences 01]</i> Acevedo,Jean Marie UPR-RIO PIEDRAS	<i>Development of Methods for the detection of Enterophages and Their Prevalence in Sewage</i>
11:20AM -> 11:40AM	<i>[Enviromental Sciences 02]</i> Almodóvar,Laura UPR-MAYAGUEZ	<i>Heavy Metal Removal in Water Treatment Plants in Mayagüez and Adjuntas</i>

11:40AM → 12:00PM	<i>[Environmental Sciences 03]</i> Claudio, Jennifer PUCPR	<i>Molecular Characterization of Dryas iulia iulia</i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Nitza Díaz-UPR Bayamon	
1:45PM → 2:05PM	<i>[Environmental Sciences 04]</i> Crespo, Janet UPR-AGUADILLA	<i>An Assessment of the Spatial Variability of the Physicochemical Parameters of Caño Madre Vieja, Aguadilla in the Rainy Season</i>
2:05PM → 2:25PM	<i>[Environmental Sciences 05]</i> De la Cruz, Cynthia UIA-METRO	<i>Biological activity of phenoxybenzyl dichlorovinyl dimethyl cyclopropane carboxylate against Allium cepa.</i>
2:25PM → 2:45PM	<i>[Environmental Sciences 06]</i> Del Valle, Aixa UPR-MAYAGUEZ	<i>Removal of Cd (II) Ions with Recycled Crumb Rubber</i>
2:45PM → 3:05PM	<i>[Environmental Sciences 07]</i> Delgado, Diana UPR-RIO PIEDRAS	<i>Forecasting honeybee production in Puerto Rico under scenarios of climate change</i>
3:05PM → 3:25PM	<i>[Environmental Sciences 08]</i> Freytes, Ileana UPR-RIO PIEDRAS	<i>Effects of water quality on seagrass community productivity and biodiversity in NE Puerto Rico</i>

Session: 02

Room: E-106B

Moderator: Prof. Selimar Malavé-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Environmental Sciences 09]</i> Fuentes Martínez, Paul M. UIA-BAYAMON	<i>Ambient Concentrations and Dry Deposition Fluxes of Trace Elements in Puerto Rico</i>

11:20AM → 11:40AM	<i>[Environmental Sciences 10]</i> Hurtado, Nilbeth UPR-RIO PIEDRAS	<i>Molecular Identification of Mycorrhizal Fungi in the Orchid <i>Oeceoclades maculata</i></i>
11:40AM → 12:00PM	<i>[Environmental Sciences 11]</i> Jaiman, Rosa PUCPR	<i>Molecular Characterization of <i>Dryas iulia iulia</i></i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Evelyn Cepeda-UPR-Arecibo	
1:45PM → 2:05PM	<i>[Environmental Sciences 12]</i> López, Alexandra UPR-RIO PIEDRAS	<i>Is an Invasive Grass causing Biotic Homogenization in Mona Island Reserve?</i>
2:05PM → 2:25PM	<i>[Environmental Sciences 13]</i> Lugo, Frances UNE	<i>Chlorophyll concentration from bleached and healthy Hawaiian Corals</i>
2:25PM → 2:45PM	<i>[Environmental Sciences 14]</i> Maldonado, Gabriel SCIENCE EDUCATION	<i>Flower color variation in populations of <i>Spathoglottis plicata</i> and its relationship to reproductive success</i>
2:45PM → 3:05PM	<i>[Environmental Sciences 15]</i> Marcano, Alexandra UPR-RIO PIEDRAS	<i>Longitudinal changes in the quality of dissolved organic carbon in three tropical watersheds</i>
3:05PM → 3:25PM	<i>[Environmental Sciences 16]</i> Medina-Rodriguez, Lyra R UPR-MAYAGUEZ	<i>Temporal and spatial variations of bacterial diversity in activated sludge bioreactors of two secondary wastewater treatment plants in Puerto Rico</i>

Session: 03

Room: E-110

Moderator: Prof. Noelia Moyeno-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Environmental Sciences 17]</i> Montalbán Mendoza, Mari Ana UIA-BAYAMON	<i>Predation on Bats by Feral Cats at Culebrones Cave, Puerto Rico</i>
11:20AM -> 11:40AM	<i>[Environmental Sciences 18]</i> Montalvo, Gabriel UPR-ARECIBO	<i>The minimum concentration determination of isolated rizobacteria form aquatic plants, exposed to lead, chrome and cupper.</i>
11:40AM -> 12:00PM	<i>[Environmental Sciences 19]</i> Montes, Nataly UPR-RIO PIEDRAS	<i>Development of Methods for the detection of Enterococcus Phages (Enterophages) and Their Prevalence in Sewage</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Edgardo Mercado-UPR-Arecibo		
1:45PM -> 2:05PM	<i>[Environmental Sciences 20]</i> Paez, Dianne UPR-RIO PIEDRAS	<i>Analysis of Maximum and Minimum Temperatures in Puerto Rico in the last 40 years.</i>
2:05PM -> 2:25PM	<i>[Environmental Sciences 21]</i> Reyes-Rodríguez, Gabriel José UPR-RIO PIEDRAS	<i>Chemical Characterization of Clouds and Rainwater Collected in a Tropical Montane Cloud Forest in Puerto Rico under the Influence of Different Types of Air Masses</i>
2:25PM -> 2:45PM	<i>[Environmental Sciences 22]</i> Sánchez, Josué UPR-RIO PIEDRAS	<i>Is an Invasive Grass causing Biotic Homogenization in Mona Island Reserve?</i>

2:45PM -> 3:05PM	<i>[Environmental Sciences 23]</i> Santiago,Iliana TURABO UNIVERSITY	<i>Crenarchaeal diversity within the Tropical Elfin Forest</i>
3:05PM -> 3:25PM	<i>[Environmental Sciences 24]</i> Santiago,Victor UPR-RIO PIEDRAS	<i>Phylogeography and conservation genetics of <i>Tabebuia heterophylla</i> utilizing chloroplast DNA sequences</i>

Session: 04

Room: Auditorium B

Moderator: Prof. Nitza Díaz-UPR-Bayamon

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Environmental Sciences 25]</i> Santos-Figueroa,Gilmarie UPR-RIO PIEDRAS	<i>The size-resolved carbonaceous fraction in African dust particles over the caribbean during the 2007 summer months.</i>
11:20AM -> 11:40AM	<i>[Environmental Sciences 26]</i> Torres,Nancy UPR-RIO PIEDRAS	<i>Genetic structure of <i>Apis Mellifera</i> in Puerto Rico</i>
11:40AM -> 12:00PM	<i>[Environmental Sciences 27]</i> Torres,Victor UIA-BAYAMON	<i>Development of a Hyper Accumulator System for Mercury Phytoremediation</i>

12:00MD -> 1:30PM

Lunch Break

Moderator: Prof. Sondra I. Vega-UPR-Arecibo

1:45PM -> 2:05PM	<i>[Environmental Sciences 28]</i> Torres,Karylsa PUCPR	<i>Chemical Relation Between <i>Dryas iulia</i> and <i>Passiflora</i> species</i>
2:05PM -> 2:25PM	<i>[Environmental Sciences 29]</i> Torres,Auremar UPR-ARECIBO	<i>Biorremediation of lead contaminated water using rhizobacteria isolated from aquatic plants</i>

2:25PM → 2:45PM	<i>[Environmental Sciences 30]</i> Trinidad,Jason UIA-BAYAMON	<i>Directional Asymmetry in Gentle Africanized Bees on an Island</i>
2:45PM → 3:05PM	<i>[Environmental Sciences 31]</i> Garriga,Rocío UPR-RIO PIEDRAS	<i>Mycorrhizal fungi in the orchid <i>Oeceoclades maculata</i>: variation in site, season and plant age.</i>

Geosciences

Session: 01

Room: Auditorium B

Moderator: Prof. Jose G. Arbelo-UPR-Arecibo

Time	Speaker and affiliation	Title
3:05PM → 3:25PM	<i>[Geosciences 01]</i> Quintero,Raiza UPR-MAYAGUEZ	<i>A petographic study of shocked minerals from the Vredefort Dome, South Africa</i>

Life Sciences

Session: 01

Room: 104

Moderator: Prof. Edgardo Mercado-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Life Sciences 01]</i> Abreu,Jose UPR-RIO PIEDRAS	<i>Tentacle regeneration in the sea cucumber <i>Holothuria glaberrima</i></i>
11:20AM → 11:40AM	<i>[Life Sciences 02]</i> Agosto,Abby UPR-RIO PIEDRAS	<i>An interaction between Mex67p and Upf1p at the terminal step of mRNA export facilitates mRNA translation</i>

11:40AM → 12:00PM	<i>[Life Sciences 03]</i> Alonso-Rodríguez,Aura UPR-RIO PIEDRAS	<i>Impacts of exotic bamboo on earthworm communities in a tropical wet forest, Puerto Rico</i>
12:00MD → 1:30PM	Lunch Break	
Moderator: Prof. Julio Ortiz-UPR-Bayamon		
1:45PM → 2:05PM	<i>[Life Sciences 04]</i> Arroyo,Stephanie UNE	<i>Expression of renin in H9C2 Cardiomyoblasts during differentiation</i>
2:05PM → 2:25PM	<i>[Life Sciences 05]</i> Ballista,Joan UPR-BAYAMON	<i>Infusion of Group I metabotropic glutamate receptor agonist within the basolateral complex produces anxiolytic-like effect in estrogen-treated female rats</i>
2:25PM → 2:45PM	<i>[Life Sciences 06]</i> Berrios,Sharlene UPR-RIO PIEDRAS	<i>Cell Free Transcription Extract Derived from the Silkworm</i>
2:45PM → 3:05PM	<i>[Life Sciences 07]</i> Berroa,Lissa PUCPR	<i>An approach to study signal transduction through linker domain of histidine kinase in vitro</i>
3:05PM → 3:25PM	<i>[Life Sciences 08]</i> Burgos,Hector UPR-AGUADILLA	<i>Effect of UV Radiation Exposure on the Viability Rate of Artemia fransiscana Embryos</i>

Session: 02

Room: 202

Moderator: Prof. Evelyn Cepeda-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Life Sciences 09]</i> Caceres,Rita UPR-RIO PIEDRAS	<i>Population dynamics and nutritional value of epilithic algae in artificial rearing ponds associated to the reintroduction of the Puerto Rican crested toad (Bufo lemur) in Puerto Rico</i>

11:20AM → 11:40AM	<i>[Life Sciences 10]</i> Caraballo,Nelson UPR-RIO PIEDRAS	<i>Extinction of Cocaine Seeking Behavior ,effect of Neurotensin receptor antagonist within the NAc and mPFC</i>
11:40AM → 12:00PM	<i>[Life Sciences 11]</i> Cardona,Christopher UPR-AGUADILLA	<i>Expression levels of photoprotective genes (PsbS, ZE, VDE) in diploid and tetraploid species of Glycine</i>
12:00MD -> 1:30PM	Lunch Break	
	Moderator: Prof. Migdalia Lopez-UPR-Arecibo	
1:45PM → 2:05PM	<i>[Life Sciences 12]</i> Carrasquillo, Lineysha UPR-HUMACAO	<i>Phenotype microarray comparison of Bacillus subtilis 168 and FBC5 mutant impaired in calcium carbonate precipitation</i>
2:05PM → 2:25PM	<i>[Life Sciences 13]</i> Cervantes,Godenee UNE	<i>A gradient of airborne fungal spore concentrations from the Caribbean National Rain Forest towards the San Juan Metropolitan Area</i>
2:25PM → 2:45PM	<i>[Life Sciences 14]</i> Colón,Daisy D. UPR-RIO PIEDRAS	<i>Post-transcriptional regulation of human interleukin-3 mRNA by the adenosine/uridine Rich element</i>
2:45PM -> 3:05PM	<i>[Life Sciences 15]</i> Cordero,Rochelle UPR-RIO PIEDRAS	<i>A captive breeding program for three endangered Puerto Rican Eleutherodactylus: E. richmondi, E. locustus and E. wightmanae.</i>
3:05PM → 3:25PM	<i>[Life Sciences 16]</i> Cordero- Hernández,José Manuel UPR-MAYAGUEZ	<i>NF-IL6: a human factor implicated in monocyte differentiation in THP-1 cells</i>

Session: 03

Room: 203

Moderator: Prof. Hugo Roman-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Life Sciences 17]</i> Cruz,Johnny UPR-AGUADILLA	<i>Thermal Resistance of the Artemia populations(cysts)of Puerto Rico: a molecular and physiological perspective</i>
11:20AM -> 11:40AM	<i>[Life Sciences 18]</i> De Jesús,Noried UPR-PONCE	<i>Understanding Avian Influenza Virus: Infection, Pathogenicity and Prevalence</i>
11:40AM -> 12:00PM	<i>[Life Sciences 19]</i> Delgado Torres,Nayla UPR-RIO PIEDRAS	<i>Effects of Exercise on the CA3 Mossy Fiber Pathway of the Rodent Hippocampus</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Jaime Bonilla-UPR-Arecibo		
1:45PM -> 2:05PM	<i>[Life Sciences 20]</i> Diaz,Krizia UPR-MAYAGUEZ	<i>Isolation and Characterization of Radiation Resistance microbes from Tropical Hypersaline Microbial Mats at the Cabo Rojo Salterns in Puerto Rico</i>
2:05PM -> 2:25PM	<i>[Life Sciences 21]</i> Díaz Latorre,Edgardo L. UPR-RIO PIEDRAS	<i>Woody plant diversity in tropical forest patches of different ages in a region threatened by urban development</i>
2:25PM -> 2:45PM	<i>[Life Sciences 22]</i> Fernández,Rafael UIA-BAYAMON	<i>Division of labor in the little fire ant <i>Wasmannia auropunctata</i></i>
2:45PM -> 3:05PM	<i>[Life Sciences 23]</i> Figueroa,Josi M UPR-RIO PIEDRAS	<i>Noise effects in anuran and bird community in the urban mogotes in Puerto Rico</i>
3:05PM -> 3:25PM	<i>[Life Sciences 24]</i> Figueroa- Nieves,Vilmarie UIA-BAYAMON	<i>Reduced aggressive behavior of fire ants (<i>Solenopsis invicta</i>) in Puerto Rico</i>

Session: 04

Room: 106

Moderator: Prof. Mari Luz Acevedo-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Life Sciences 25]</i> Figuerola,Cielo UPR-MAYAGUEZ	<i>Distribution and Abundance of the Green and Black Dart-Poison Frog (Dendrobates auratus): A Recently Introduced Species at the La Selva Biological Station?</i>
11:20AM -> 11:40AM	<i>[Life Sciences 26]</i> Flores,Jaime UPR-RIO PIEDRAS	<i>Cell division during early stages of intestinal regeneration</i>
11:40AM -> 12:00PM	<i>[Life Sciences 27]</i> Gomez-Moreno,Ramon UPR-BAYAMON	<i>Molecular Survey Reveals Novel Groups of the Archaea and Sulfate Reducers in Non-extreme Environments at El Yunque Forest</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Eugenio Santiago-UPR-Rio Piedras		
1:45PM -> 2:05PM	<i>[Life Sciences 28]</i> González,Bárbara UIA-BAYAMON	<i>An ABCG homologue gene in multi-drug resistant Plasmodium yoelii</i>
2:05PM -> 2:25PM	<i>Life Sciences 29]</i> Guzman,Monica UPR-RIO PIEDRAS	<i>Are glial cells present in the Echinoderm Nervous System?</i>
2:25PM -> 2:45PM	<i>[Life Sciences 30]</i> Irizarry,Luis PUCPR	<i>Comparative behavior and density study of anolis species in urban and suburban areas.</i>
2:45PM -> 3:05PM	<i>[Life Sciences 31]</i> Irizarry-Vargas,Victor UPR-MAYAGUEZ	<i>The Metal and Radiation Resistant Geo-Microbes in Soils of Puerto Rico</i>
3:05PM -> 3:25PM	<i>[Life Sciences 32]</i> Jimenez,Elaine UPR-AGUADILLA	<i>Analysis of Heat Shock Proteins in Artemia franciscana cysts after exposure to thermal stress environment.</i>

Session: 05

Room: 107

Moderator: Prof. Jorge Corchado-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Life Sciences 33]</i> Jimenez, Esther A. PUCPR	<i>Estudio de mariposas en áreas perturbadas y menos perturbadas de Puerto Rico.</i>
11:20AM -> 11:40AM	<i>[Life Sciences 33]</i> Kouros, Cyrus UPR-BAYAMON	<i>Temporal distribution of brachyuran crab larvae during a tidal cycle in a small estuary in Puerto Rico</i>
11:40AM -> 12:00PM	<i>[Life Sciences 34]</i> Lebron, Luis UNE	<i>Determination of Antimicrobial Resistance Profiles of Enterococcus sp. isolated from west coast public recreational waters in Puerto Rico.</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Jorge Corchado-UPR-Arecibo		
1:45PM -> 2:05PM	<i>[Life Sciences 35]</i> Leon, Lorna UIA-METRO	<i>Fast Biogas production using cellulolytic, fermentative and methanogenic bacterias.</i>
2:05PM -> 2:25PM	<i>[Life Sciences 36]</i> Lopez, Ana V PUCPR	<i>Efectos de la extinción del miedo en la fosforilación de ERK en la corteza prefrontal.</i>
2:25PM -> 2:45PM	<i>[Life Sciences 37]</i> Lou, Sheng Fong UPR-BAYAMON	<i>Temporal Distribution of Cardisoma guanhumi larvae in a small estuary in Puerto Rico</i>
2:45PM -> 3:05PM	<i>[Life Sciences 38]</i> Lozada, Michelle UPR-MAYAGUEZ	<i>Study of the Infectious Capability of the Plus (+) and Minus (-) Strands of Parvovirus Lull</i>
3:05PM -> 3:25PM	<i>[Life Sciences 39]</i> Magly, Idennys UNE	<i>Development of an ELISA to measure Dengue-4 antibody responses</i>

Session: 06

Room: 206

Moderator: Prof. Eugenio Santiago-UPR-Rio Piedras

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Life Sciences 40]</i> Matos,Felix UPR-PONCE	<i>Glutamate transporters are differentially expressed in the hippocampus during the early stages of a one-day spatial learning task</i>
11:20AM -> 11:40AM	<i>[Life Sciences 41]</i> Mendez,Natasha UPR-AGUADILLA	<i>Thermal resistance of the Artemia franciscana larvae populations of Puerto Rico and San Francisco Bay</i>
11:40AM -> 12:00PM	<i>[Life Sciences 42]</i> Monserate,Wilfred C. UPR-HUMACAO	<i>Técnicas para incrementar la germinación del Mangle de Botón (Conocarpus erectus)</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Patricia Burrowes-UPR-Rio Piedras		
1:45PM -> 2:05PM	<i>[Life Sciences 43]</i> Montalvo,Alexandra UPR-RIO PIEDRAS	<i>Role of metabotropic glutamate receptors within the nucleus accumbens shell during Environment - Elicited Cocaine Conditioning</i>
2:05PM -> 2:25PM	<i>[Life Sciences 44]</i> Montalvo,Janitza UPR-RIO PIEDRAS	<i>Role of the Anxiolytic Effects of Oxytocin on Environmental-Elicited Cocaine-Conditioning</i>
2:25PM -> 2:45PM	<i>[Life Sciences 45]</i> Moreno,Lorna UPR-RIO PIEDRAS	<i>Effect of Megathyrsus maximus on Soil and Plant Communities of Mona Island Reserve</i>
2:45PM -> 3:05PM	<i>[Life Sciences 46]</i> Ocaña,Adriana UPR-HUMACAO	<i>Use of GIS in the establishment of a marine invertebrates' data base</i>
3:05PM -> 3:25PM	<i>[Life Sciences 47]</i> Ortiz,Yakelin UPR-ARECIBO	<i>Characterization of possible endocrine disruptor effects of various environmental contaminants on the MCF-7 and 293T cell lines</i>

Session: 07

Room: 207

Moderator: Prof. Ivan Ferrer-UIPR-Bayamon

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Life Sciences 48]</i> Ortiz, Vanessa UPR-RIO PIEDRAS	<i>Response of Eleutherodactylus coqui to Batrachochytrium dendrobatidis inoculations in a live ex-situ experiment.</i>
11:20AM -> 11:40AM	<i>[Life Sciences 49]</i> Otero-Negrón, Aurora UPR-RIO PIEDRAS	<i>Prolonged Extinction Training Enhances the Reconsolidation of Conditioned Memory in Tone Fear Extinction</i>
11:40AM -> 12:00PM	<i>[Life Sciences 50]</i> Otero, Beatriz UPR-RIO PIEDRAS	<i>Efecto de la historia de uso de tierra para las comunidades de anfibios y aves en Puerto Rico</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Noelia Moyeno-UPR-Arecibo		
1:45PM -> 2:05PM	<i>[Life Sciences 51]</i> Otero, Yanitza UPR-ARECIBO	<i>Planetary Habitability Under Dynamics Temperatures</i>
2:05PM -> 2:25PM	<i>[Life Sciences 52]</i> Padilla, Elizabeth UIA-BAYAMON	<i>Blood Characteristics, Heart Mass, and Wing Morphology of Antillean Bats</i>
2:25PM -> 2:45PM	<i>[Life Sciences 53]</i> Perez, Enmanuel UPR-RIO PIEDRAS	<i>Characterization of Symbiodinium symbiont diversity in natural and experimentally translocated samples of Montastrea corals</i>
2:45PM -> 3:05PM	<i>[Life Sciences 54]</i> Perez, Maria de Lourdes UPR-MAYAGUEZ	<i>Amerindian mitochondrial DNA sequence haplotypes in the Dominican Republic: a look at Thaino rehistory.</i>
3:05PM -> 3:25PM	<i>[Life Sciences 55]</i> Ramirez, Sharissa Victoria UPR-RIO PIEDRAS	<i>Interacciones Acústicas: Respuesta de Eleutherodactylus coqui a la presencia de Eleutherodactylus portoricensis</i>

Session: 08

Room: 101

Moderator: Prof. Patricia Burrowes-UPR-Rio Piedras

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Life Sciences 56]</i> Ríos,Leslimar UPR-RIO PIEDRAS	<i>p16 INK4a polymorphism: Association with Tumor Progression in Head and Neck Cancer.</i>
11:20AM -> 11:40AM	<i>[Life Sciences 57]</i> Rivera,Carlos UPR-RIO PIEDRAS	<i>Ontogeny of gecko eyes – Are they asymmetrical, paedomorphic or both?</i>
11:40AM -> 12:00PM	<i>[Life Sciences 58]</i> Rivera,Fátima UPR-RIO PIEDRAS	<i>On the role of Arginine Vasopressin (AVP) and Oxytocin (OT) on environment-elicited cocaine-conditioning</i>
12:00MD -> 1:30PM	Lunch Break	
Moderator: Prof. Sandra Maldonado-UPR-Mayaguez		
1:45PM -> 2:05PM	<i>[Life Sciences 59]</i> Rivera,Glorimar UPR-RIO PIEDRAS	<i>Carnosic acid inhibits proliferation and enhances myeloid differentiation in NB4 cells, a human leukemia cell line</i>
2:05PM -> 2:25PM	<i>[Life Sciences 60]</i> Rivera,Neysha UPR-RIO PIEDRAS	<i>Effects of land use on the diversity of aquatic invertebrates in puerto rican streams</i>
2:25PM -> 2:45PM	<i>[Life Sciences 61]</i> Rivera,Silkia UIA-BAYAMON	<i>Chronic exposure of human macrophages to morphine and methadone induces a putative tolerant/dependent state.</i>
2:45PM -> 3:05PM	<i>[Life Sciences 62]</i> Rivera-Cruz,Angélica UPR-RIO PIEDRAS	<i>Temporal analysis of muscle dedifferentiation and regeneration in the sea cucumber <i>Holothuria glaberrima</i></i>
3:05PM -> 3:25PM	<i>[Life Sciences 63]</i> Rodríguez,Luis UPR-PONCE	<i>Pattern of Genetic Variation of the <i>Corallimorpharia Ricordea florida</i></i>

Session: 09

Room: 114

Moderator: Prof. Ivonne Colon-UPR-Aguadilla

Time	Speaker and affiliation	Title
11:00AM -> 11:20AM	<i>[Life Sciences 64]</i> Roman,Roberto UPR-MAYAGUEZ	<i>Endophytic fungi diversity in the sea grass beds of Thalassia testudinum from Cabo Rojo, Lajas, and Vieques Island</i>
11:20AM -> 11:40AM	<i>[Life Sciences 65]</i> Ruiz,Rosa UPR-HUMACAO	<i>A Biomathematical Two-Mutation Carcinogenesis Model</i>
11:40AM -> 12:00PM	<i>[Life Sciences 66]</i> Santa,Victor UPR-RIO PIEDRAS	<i>Patterns of Endemicity of the Melastomataceae of Puerto Rico</i>
12:00MD -> 1:30PM		Lunch Break
	Moderator: Prof. Luz M. Santiago-UPR-Arecibo	
1:45PM -> 2:05PM	<i>[Life Sciences 67]</i> Santiago,Cristine UPR-CAYEY	<i>Host Species Characterization of Lepanthes rupestris Stimson at Quebrada Sonadora in the Caribbean National Forest</i>
2:05PM -> 2:25PM	<i>[Life Sciences 68]</i> Santiago,Francisco UPR-RIO PIEDRAS	<i>Changes in the spherulocytes subpopulation during intestine regeneration of Holothuria glaberrima</i>
2:25PM -> 2:45PM	<i>[Life Sciences 69]</i> Serrano Negron,Yazmin PUCPR	<i>The Genetic Basis for Variation in Taste Perception in a Natural Population of Drosophila melanogaster</i>
2:45PM -> 3:05PM	<i>[Life Sciences 70]</i> Soto,Kristina UPR-MAYAGUEZ	<i>Purple Non-Sulfur Anoxygenotrophs Bacteria isolated from Tropical Hypersaline Microbial Mats of the dry season at the Cabo Rojo Salterns of Puerto Rico</i>

3:05PM → 3:25PM

[Life Sciences 71]
Torres,Laura
UPR-CAYEY

***El Verde Field Station Herbarium:
creating electronic access***

Session: 10

Room: 213

Moderator: Prof. Sondra I. Vega-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	[Life Sciences 72] Torres,Daniel UNE	<i>Effect of Valeriana officinalis Extracts in [3H]Glu Binding</i>
11:20AM → 11:40AM	[Life Sciences 73] Torres,Betzaida UIA-METRO	<i>Lifecycle of the parasite class trematoda Paraphistomon cervis</i>
11:40AM → 12:00PM	[Life Sciences 74] Torres,Marialis UPR-CAYEY	<i>Microsatellites primer design and optimization for Lepanthes rupestris Stimson.</i>
12:00MD → 1:30PM		Lunch Break
	Moderator: Prof. Ivonne Colon-UPR-Aguadilla	
1:45PM → 2:05PM	[Life Sciences 75] Ubiles,Alichy UPR-HUMACAO	<i>Sobre el anidamiento del Zumbador de Pecho Azul</i>
2:05PM → 2:25PM	[Life Sciences 76] Vazquez,Vilmarie UIA-BAYAMON	<i>Guarding behavior of gentle Africanized honey bees in Puerto Rico</i>
2:25PM → 2:45PM	[Life Sciences 77] Vázquez,Emmanuel UNE	<i>Microglial Activation and Migration after Insertion of Silicon Microelectrodes in Rodent Brain Slices</i>
2:45PM → 3:05PM	[Life Sciences 78] Vega,Janiabeth UPR-ARECIBO	<i>Comparative Analysis of the Toxicity of Chlorpyrifos, Diazinon, Carbaryl and Malthion in terms of Induction of Apoptosis in the Cell Line H4IIE.</i>

3:05PM → 3:25PM

[Life Sciences 79]
Vélez,Frances
UPR-RIO PIEDRAS

***Genetic Anthropology of Epilepsy
in Puertorricans***

Session: 11

Room: Room Projection, Library

Moderator: Prof. Orlando Gonzalez-UPR-Bayamon

Time	Speaker and affiliation	Title
1:45PM → 2:05PM	<i>[Life Sciences 83]</i> Sanchez-Rivera, Francisco J. UPR-MAYAGUEZ	<i>Molecular comparison of Anoxygenic Phototrophic Bacteria (APBs) in Two Hypersaline Microbial mats at the Cabo Rojo Salterns of Puerto Rico</i>
2:05PM → 2:25PM	<i>[Life Sciences 80]</i> Vélez,Namyr UPR-RIO PIEDRAS	<i>Machado Joseph Disease</i>
2:25PM → 2:45PM	<i>[Life Sciences 81]</i> Vicente,Marysol UIA-BAYAMON	<i>Plant tissue culture and regeneration of the plant nicotiana tabacum</i>
2:45PM → 3:05PM	<i>[Life Sciences 82]</i> Vignoni,Yanina UPR-AGUADILLA	<i>Characterization of volatile compounds responsible for the flavors and fragrances of tropical fruits using SPME and GC/MS technique</i>

Mathematics

Session: 01

Room: Conference Room, Library

Moderator: Prof. Jose F. Candelaria-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Mathematics 03]</i> Rivera,Vicente UPR-HUMACAO	<i>Study of Electronic Properties of Carbon Nanotubes</i>

11:20AM → 11:40AM	<i>[Mathematics 01]</i> Almodóvar,Edgard UPR-RIO PIEDRAS	<i>Foundations of Mathematics in Music</i>
11:40AM → 12:00PM	<i>[Mathematics 02]</i> Cruz,Yesenia UPR-HUMACAO	<i>On the construction of State Transfer Matrices of Close Simple Path for Modeling Linear Polymers</i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Jose F. Candelaria-UPR-Arecibo	
1:45PM → 2:05PM	<i>[Mathematics 04]</i> Sierra,Liesmarie UPR-RIO PIEDRAS	<i>Alfombras Persas</i>

Physics

Session: 01

Room: 111

Moderator: Prof. Guillermo Nery-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Physics 01]</i> Bobea,Milena UPR-RIO PIEDRAS	<i>Structure and optical properties of nanocrystalline ZnO thin films grown on Si (100)</i>
11:20AM → 11:40AM	<i>[Physics 02]</i> Calderon,Jean UPR-CAYEY	<i>Electron Beam Litography for Building Devices and for Nanostructure Characterization</i>
11:40AM → 12:00PM	<i>[Physics 03]</i> Carpna,Jennifer UPR-RIO PIEDRAS	<i>The Synthesis and Study of Luminescent Silica Gel and Silicon Nanostructures for Biomarking</i>
12:00MD → 1:30PM	Lunch Break	
	Moderator: Prof. Guillermo Nery-UPR-Arecibo	
1:45PM → 2:05PM	<i>[Physics 04]</i> Centeno,Diana C. UPR-HUMACAO	<i>Measurement of position angle and separation of selected binary stars using the NURO Telescope</i>

2:05PM → 2:25PM	<i>[Physics 05]</i> Delgado,David UPR-HUMACAO	<i>The Gaussian Curvature of a Magnetized Charged Black Hole Event Horizon</i>
2:25PM → 2:45PM	<i>[Physics 06]</i> Franco,Eframir UPR-HUMACAO	<i>Binary stars observation report 2006</i>
2:45PM → 3:05PM	<i>[Physics 07]</i> Garcia,Camille UPR-HUMACAO	<i>A Biomathematical Model to Estimate the Carcinogenic Effects of Cosmic Rays on Astronauts.</i>
3:05PM → 3:25PM	<i>[Physics 08]</i> Gonzalez,Belenni UPR-RIO PIEDRAS	<i>Preliminary result for growth and characterization of cBN films</i>

Session: 02

Room: 112

Moderator: Prof. Neftali S. Rivera-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Physics 09]</i> Hernandez,Darimar UPR-CAYEY	<i>Deposition of Hydroxyapatite Coatings by rf Sputtering</i>
11:20AM → 11:40AM	<i>[Physics 10]</i> Lozada,Charles UPR-HUMACAO	<i>New Computation of the Electron Temperature of Carina Nebulae</i>
11:40AM → 12:00PM	<i>[Physics 11]</i> Montalvo,Stephanie UPR-RIO PIEDRAS	<i>Design and construction of a modified electric-arc facility for continuous production of SWCNTs of controlled diameter</i>

12:00MD → 1:30PM

Lunch Break

Moderator: Prof. Neftali S. Rivera-UPR-Arecibo

1:45PM → 2:05PM	<i>[Physics 12]</i> Morales,Kristle UPR-HUMACAO	<i>Calculation of the plate scale of the NURO telescope using data on the separation of binary stars</i>
2:05PM → 2:25PM	<i>[Physics 13]</i> Ortiz,Keyla UPR-HUMACAO	<i>Exact Solutions of a Bio-Mathematical Carcinogenesis Model</i>

2:25PM → 2:45PM	<i>[Physics 14]</i> Ramos, Kevin UPR-HUMACAO	<i>Binary Stars Observation Report</i> <i>May 2007</i>
2:45PM → 3:05PM	<i>[Physics 15]</i> Rivera, Leonardo UPR- HUMACAO	<i>Observational report on position</i> <i>angle and separation of stars</i> <i>observed on September 2007</i>
3:05PM → 3:25PM	<i>[Physics 16]</i> Rivera, Luis Enrique UPR- HUMACAO	<i>Continuum Emissions at 1.4 GHz</i> <i>in Carina Nebulae</i>

Session: 03

Room: 107

Moderator: Prof. Carlos Perez-UPR-Arecibo

Time	Speaker and affiliation	Title
11:00AM → 11:20AM	<i>[Physics 17]</i> Rivera, Adamari UPR-CAYEY	<i>Synthesis and Characterization of</i> <i>Zinc Oxide Structures</i>
11:20AM → 11:40AM	<i>[Physics 18]</i> Rivera, Ricardo UPR-CAYEY	<i>Controlled Morphology of Cupper</i> <i>Oxide Whiskers Grown on TEM</i> <i>Grids</i>
11:40AM → 12:00PM	<i>[Physics 19]</i> Rodriguez, Samelys UPR-RIO PIEDRAS	<i>Biosensing properties of</i> <i>nanodiamond</i>
12:00MD → 1:30PM	Lunch Break	
Moderator: Prof. Carlos Perez-UPR-Arecibo		
1:45PM → 2:05PM	<i>[Physics 20]</i> Rojas, Richard UPR- HUMACAO	<i>Field effect devices and sensors</i> <i>based on electrospun polymer</i> <i>assisted tin oxide nanofibers</i>
2:05PM → 2:25PM	<i>[Physics 21]</i> Santiago, Nitza UPR- HUMACAO	<i>The Ionized Warp Layer at the</i> <i>Southern Hemisphere</i>
2:25PM → 2:45PM	<i>[Physics 22]</i> Torres, Nesty Ray UPR-RIO PIEDRAS	<i>Growth and Characterization of</i> <i>Nanosensing Tungsten Oxide</i> <i>Materials</i>

2:45PM -> 3:05PM

[Physics 23]
Torres, Loraine
UPR-RIO PIEDRAS

Carbon nanotrees for biosensing