

**Schedule of Parallel Sessions**

**Venue: Y407**

**Moderators: Dr. Joseph Auresenia / Dr. Josephine Borja / Ms. Mary Ann Adajar**

<b>Theme</b>	<b>Time (P.M.)</b>	<b>Title</b>	<b>Author/s</b>
<b>Environmental Engineering</b>	1:00 – 1:20	Adsorption Capacity of Kenaf Fibers ( <i>Hibiscus cannabinus L.</i> ) in Aqueous Lead Solution	<i>Katrina Go, Rominick Lee, Jan Benedict Yap, Florinda Bacani</i>
	1:20 – 1:40	Hydrotalcite Formation and Arsenic Immobilization during the Hydration of Coal Fly Ash mixed with MgO	<b><i>Einstine M. Opiso</i></b> <i>Xiaoji Liu, Tsutomu Sato</i>
	1:40 – 2:00	A Survey of Indoor Air Quality Studies in the Philippines	<i>Manuel C. Belino, Efren G. Dela Cruz, Jonathan M. Anastacio, Hans Felix R. Bosshard</i>
	2:00 – 2:20	A Decision Modeling Approach to Prioritize Remediation Options for Contaminated Sites	<b><i>Michael Angelo B. Promentilla</i></b>
<b>Catalysis / Separation</b>	2:20 – 2:40	The Effect of Catalyst Preparation on the Surface Characteristics of Ni/MgO-ZrO <sub>2</sub>	<b><i>Louie C. Shieh,</i></b> <i>Teddy G. Monroy, Leonila C. Abella</i>
	2:40 – 3:00	Ni/MgO-ZrO <sub>2</sub> Catalyst for the Dry Reforming of Methane	<b><i>Teddy Monroy,</i></b> <i>Leonila Abella, Susan Gallardo, Hirofumi Hinode</i>
	3:00 – 3:20	Solvent Free Microwave Assisted Extraction of Corosolic Acid from Banaba ( <i>Lagerstroemia speciosa</i> ) Crude Extract	<i>Aldrich A. Huang, Harleen Moya U. Jao, Patrick Jerome Ngo, Marylou M. Uy</i>
<b>Materials</b>	3:20 – 3:40	Ceramic Tile Wastes as Partial Substitution to Aggregates in Concrete Mix	<i>Ronaldo S. Gallardo, Jason Maximino C. Ongpeng</i>
	3:40 – 4:00	Retrofitting of Steel Wide Flange Beams Using Exterior Post-Tensioning	<i>Bernardo A. Lejano, Patricia C. Adiaz, David Joseph J. Vidad</i>
	4:00 – 4:20	Absorption of Atomic Hydrogen into Graphite via the Armchair Edge: A First Principles Study	<b><i>Nelson Arboleda Jr.,</i></b> <i>Hideaki Kasai</i>

<b>Schedule of Parallel Sessions</b>			
<b>Venue: <u>Y408</u></b>			
<b>Moderators: Mr. Roberto Caguin / Mr. Miguel Gutierrez</b>			
<b>Theme</b>	<b>Time</b>	<b>Title</b>	<b>Author/s</b>
<b>Information Technology</b>	1:00 – 1:20	A Distributed Manufacturing Approach On the Application of the Manufacturing Execution System	<i>Arthur Brian Chua, Ronaldo V. Polancos</i>
	1:20 – 1:40	Development of Software Tool for Generation of Bill of Materials and Estimated Cost of a Telephone Wiring Design for Commercial Buildings	<i>Christian Jeffrey D. Chavez, Christian Ted F. Dogino, Bryan P. Gonzaga, Joseph Conrad T. Lantican, Ann E. Dulay</i>
	1:40 – 2:00	A Non-Contact Eye Infrared Thermal Imaging Sensor Device	<i>Christian Cruz, Marvin Cruz, Calvin Feliciano, David Ong, Lysander Ong, Marlon Musngi, Harvey Uy</i>
<b>Electronics System</b>	2:00 – 2:20	FPGA-Based Built-In Self Test for a 4-bit BCD Adder	<i>Norwynn Marian B. Bergonio, Rafael F. Halili, Maris Mei P. Lim, Chelyne G. Santiago, Ann E. Dulay</i>
	2:20 – 2:40	Small-scale Automated Biodiesel Production from Jatropha Curcas Using Microwave Assisted Extraction and Transesterification	<i>Maria Camille Gliane, Julius Ramje Ng, Mark Ryan To, Enrique Manzano</i>
<b>Business</b>	2:40 – 3:00	Challenges and Issues Faced in the Product Development Process: A Comparison between Established and Start Up Firms	<i>Emilina R. Sarreal</i>
<b>Education</b>	3:00-3:45	Fast Feedback in Physics Teaching	<i>Dr. Ed van den Berg</i>

**Schedule of Parallel Sessions**

**Venue: Y409**

**Moderators : Ms. Louise Custodio / Ms. Joanne Cassanova**

<b>Theme</b>	<b>Time</b>	<b>Title</b>	<b>Author/s</b>
<b>Education</b>	1:00 – 1:20	Teaching Research Ethics to Undergraduate Chemical Engineers: A Transformative Approach	<b><i>Luis F. Razon</i></b>
	1:20 – 1:40	How Do Education Students Learn Physics?	<b><i>Voltaire Mallari Mistades</i></b>
	1:40 – 2:00	Development and Validation of a Concept Test in Introductory Physics for Biology	<b><i>Marie Paz E. Morales</i></b>
	2:00 – 2:20	Students' Understanding of Forces: Similarities and Differences among Sixth Graders and Senior High Students	<b><i>May Ronda, Lydia Roleda</i></b>
	2:20 – 2:40	Aiding Students' Problem Solving Development in Physics through a Learning Module	<b><i>Anne Sangalang, Katherine Munda</i></b>
	2:40 – 3:00	Examining Conceptions and Attitude towards Climate Change	<b><i>Charles Vincent P. Obdianela</i></b>
	3:00 – 3:20	High School Chemistry Experiments: The Green Chemistry and Filipino Approach	<b><i>Ronald Santos, Armando Guidote, Jr., Auxencia Limjap</i></b>
	3:20 – 3:40	Exploring Students' Alternative Conceptions on Genetics	<b><i>Ana Michelle Ricalde, Maricar Prudente</i></b>
	3:40 - 4:00	A Metacognitive Approach to Students' Preconceptions Concerning Solving Linear Equations in One Variable	<b><i>Esmeralda S. Bunag, Auxencia Limjap</i></b>
	4:00 – 4:20	Developing Students' Skills and Attitudes towards Algebraic Expressions using Term Tiles: A Case Study	<b><i>Marvin Jordan D. Koa, Shera Marie Pausang</i></b>
	4:20 – 4:40	Use of Manipulatives to Develop Second Year High School Students' Understanding of Equality and Linear Equations	<b><i>Melanie Rivera, Mary Grace Sinfuego, Adrian Paul Tudayan</i></b>
	4:40 – 5:00	An overview of the Design, Implementation and Evaluation of UbD Learning Plans in Elementary Algebra in Selected Diocesan Schools in Zambales and Bataan	<b><i>SIGS BATCH 3, Minie Rose C. Lapinid, Auxencia A. Limjap</i></b>

**Schedule of Parallel Sessions**

**Venue: Y507**

**Moderators: Dr. Anthony Lee / Dr. Jose Tristan Reyes**

<b>Theme</b>	<b>Time</b>	<b>Title</b>	<b>Author/s</b>
<b>Biology</b>	1:00 – 1:20	Parasite Biodiversity in Philippine Domestic and Peripatetic Mammalian Species	<i>Florencia Claveria and Mary Jane Cruz-Flores</i>
	1:20 – 1:40	Abundance, Biomass, and Primary Productivity of Middle Meadow Seagrasses in Talin Bay, Batangas	<i>Michael A. Clores, Jose Santos Carandang IV</i>
	1:40 – 2:00	Distribution of coral species threatened with extinction Philippines	<i>W. Y. Licuanan, M Quibilan, C. Reboton PM. Alino.</i>
<b>Instrumentation</b>	2:00 – 2:20	Correlation Study of Sound and Respiration Rate Signals with EEG (Electro encephalogram) Signal at Different Sleep Conditions	<i>Abigail S. Barbosa, Robert Phoebus A. Carranza, Jr., Romeric F. Pobre</i>
	2:20 – 2:40	Detection of Human Blood Glucose Concentration Using Non-Invasive Technique	<i>Katherine C. Gaw, Jana Pamela Y. De Leon, Romeric F. Pobre</i>
	2:40 – 3:00	Fabrication and Preliminary Characterization of a pH sensor Based on Conducting Polypyrrole	<i>J. Empino, R. Sasaki, C. Manzano, E. Manzano, R. Quiroga</i>
<b>Statistics</b>	3:00 – 3:20	Redesign Considerations for the 2011 Philippine Master Sample Design for Household Surveys	<i>Arturo Y. Pacificador, Jr.</i>
	3:20 – 3:40	Exploring Latent Factors Using Non-Bayesian and Bayesian Factor Analysis	<i>Shirlee Ocampo, Rechel Arcilla, Frumecio Co, Ryan Jumangit, Felipe Jose Diokno</i>
	3:40 - 4:00	Characterization of the Philippine Stock Exchange Composite Index Behavior	<i>Cristina Mae Janairo, Robert Roleda</i>
	4:00 – 4:20	The Extensive Form Game of A Graph Coloring Problem on Paths	<i>Yvette Fajardo-Lim</i>

**Schedule of Parallel Sessions****Venue: 508****Moderators : Dr. Gil Nonato Santos / Dr. Eric Punzalan**

<b>Theme</b>	<b>Time</b>	<b>Title</b>	<b>Author/s</b>
<b>Materials</b>	1:00 – 1:20	Quantum Dynamics Study on the Incident Angle Dependence of H <sub>2</sub> Dissociative Adsorption on Defective Pt(III) Surface	<i>Michelle Natividad, Nelson Arboleda Jr., Hideaki Kasai</i>
	1:20 – 1:40	Synthesis of a Pyrazinamide Analog of Salicylic Acid	<i>Glenn Alea, Faith Marie G. Lagua, Michael Dominic M. Ajero</i>
	1:40 – 2:00	The Effect of Dwell Time in the Fabrication of Gallium Nitride Nanomaterials	<i>N. Alcantara, R. R. Anciado, G. Castillon, A. Ladines, R. de los Reyes, G. N. C. Santos, R. V. Quiroga</i>
	2:00 – 2:20	Fabrication and Characterization of Yttria-Stabilized Zirconia	<i>Rose Ann Tegio, Shirley Tiong Palisoc, Michelle Natividad, Simon Gerard Mendiola</i>
	2:20 – 2:40	Synthesis of TiO <sub>2</sub> Nanomaterials by Modified Horizontal Vapor Phase Growth Technique	<i>Abel Ole P. M. B. Abrasaldo, G. Castillon, A. Ladines, R. de los Reyes, G. N. C. Santos, R. V. Quiroga</i>
	2:40 – 3:00	Characterization of Silver Nanomaterials, Synthesized by the Horizontal Vapor Phase Crystal Growth Technique, for Antimicrobial Purposes	<i>Wilfred Espulgar, Gil Santos, Reuben Quiroga</i>

<b>Schedule of Parallel Sessions</b> <b>Venue: Y509</b>			
<b>Theme</b>	<b>Time</b>	<b>Title</b>	<b>Author/s</b>
<b>ICT 4D</b>	1:00 – 1:20	Assessing Information Technology Adoption in Philippine SMEs: Validating the Applicability of the Technology Adoption Model (TAM) for Selected SMEs	<b>Sherwin Ona,</b> <i>Ma. Theresa Cristobal</i>
	1:20 – 1:40	Community Based Disaster Management for Buklod Tao Inc: Capturing Indigenous Knowledge for Community Based Management Capacity	<b>Christine Mae Tavera,</b> <i>Janine Vincente Casa,</i> <i>Dennis Dominic Diego,</i> <i>Quino James Legaspi</i>
	1:40 – 2:00	Online Collaboration in e-Participation	<b>Estefanie Ulit</b>
	2:00 – 2:20	Assessment on the Use of ICT in Monitoring Maternal Health in the Philippines	<i>Mary Jane Arcilla,</i> <i>Sean Camille Agustin,</i> <i>Camille Bernardez,</i> <b>Megan Lourdes Panopio</b>
	2:20 – 2:40	Legal Digest Management System	<b>Mary Jane Arcilla,</b> <i>Corinne Ang,</i> <i>Nadia Cayco,</i> <i>Barbara Kates</i> <i>Francisco,</i> <i>Andrew Melliza</i>
	2:40 – 3:00	Extending Student Information Systems to the Mobile End for Empowering Stakeholders	<b>Marivic Tangkeko,</b> <i>Terry Lim,</i> <i>Karl Morano,</i> <i>Leonard Tan</i>
<b>Neural Network</b>	3:00 – 3:20	Design of an Immersive 3D Self-Organizing Map	<i>Arnulfo Azcarraga,</i> <b>Sean Manalili</b>
	3:20 – 3:40	Neural Network Implementation on the Graphics Processing Unit using CUDA	<i>Ma. Francesca Barcelona,</i> <i>Byron Joshua Bautista,</i> <b>Shaun Raphael Candano,</b> <i>Marie Katherine Tadios,</i> <i>Florante R. Salvador</i>

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**Venue: Y509**

<b>Theme</b>	<b>Time</b>	<b>Title</b>	<b>Author/s</b>
<b>Neural Network</b>	3:40 - 4:00	Learning in Neural Networks with Decision Trees	<i>Remedios de Dios Bulos, Robert Carag, Therese Seares, Fu Yuen So</i>
<b>Digital Processing</b>	4:00 – 4:20	An Investigation to Understand Collaboration between Software and Arts for Creative Artworks	<i>Kishore Kosuri</i>
	4:20 – 4:40	A Proposed Generic Controller for Robotic and Automation Courses	<i>Gregory Cu</i>