

31st annual paase meeting and symposium

Science and Engineering Education, Research and Innovation
Toward National Development and Global Competitiveness

A yearly publication of the Annual Meeting and Symposium of the Philippine – American Academy of Science and Engineering (PAASE). The publication contains abstracts of scientific papers covering all areas of science, engineering and technology research.

PAASE Officers 2011

OFFICERS

Gisela P. Concepcion, Ph.D.
President

Rigoberto C. Advincola, Ph.D.
Vice-President

Noreen R. Gonzales-McCurdy, Ph.D.
Secretary

Jean R. Tiong, Ph.D.
Treasurer

BOARD OF DIRECTORS

Christopher C. Bernido, Ph.D.
Caesar A. Saloma, Ph.D.
Maria Luisa A. Virata-Theimer, Ph.D.
Fabian M. Dayrit, Ph.D.
Romel D. Gomez, Ph.D.
Eduardo R. Mendoza, Ph.D.
Gil Mendoza, Ph.D.
Ernesto M. Pernia, Ph.D.
Francis L. de los Reyes, Ph.D.

31st APAMS LOCAL ORGANIZING COMMITTEE

Gisela P. Concepcion, Ph.D.

Chair

Members

Arnel A. Salvador, Ph.D.

Fabian M. Dayrit, Ph.D.

Wilson Garcia. Ph.d.

Evangeline c. Amor, Ph.D.

Irene M. Villaseñor, Ph.D.

Maribel G. Nonato, Ph.D.

Alvin B. Culaba, Ph.D.

Luis G. Sison, Ph.D.

Rowena Cristina L. Guevara, Ph.D.

Graduate students

joshua p. torres

jessa m. Maguad

joven ramirez

bea l. ramiro

mary anne a. ammon

malem s. flores

jortan o. tun

lisa e. lamberte

krichi may c. cabacaba

mitchellrey m. toleco

neda barghi

31st APAMS Overview

Morning Program

DAY 1. Wednesday, June 15, 2011			DAY 2. Thursday, June 16, 2011				DAY 3. Thursday, June 17, 2011													
8:00		8:00					8:00					8:00								
8:15	REGISTRATION	8:15					8:15					8:15								
8:30		8:30					8:30					8:30								
8:45		8:45					8:45					8:45								
9:00		OPENING PROGRAM	9:00	PL2: SEVERINO AND PAZ KOH LECTURESHIP AWARDS IN SCIENCE & ENGINEERING				9:00	PL3: Scientific Plenary Lectures				9:00							
9:15	9:15							9:15									9:15			
9:30	9:30							9:30									9:30			
9:45	9:45							9:45									9:45			
10:00	Morning Break		10:00					Morning break					10:00	Morning break				10:00		
10:15	PLENARY LECTURES, PL1: Science and Engineering and Society	10:15					10:15					10:15								
10:30		10:30	O1-A1	O1-B1	O1-C1	O1-D1	10:30	O3-A1	O3-B1	O3-C1	O3-D1	10:30								
10:45		10:45					10:45					10:45								
11:00		11:00	O1-A2	O1-B2	O1-C2	O1-D2	11:00	O3-A2	O3-B2	O3-C2	O3-D2	11:00								
11:15		11:15					11:15					11:15								
11:30	11:30	O1-A3	O1-B3	O1-C3	O1-D3	11:30	O3-A3	O3-B3	O3-C3	O3-D3	11:30									
11:45	11:45					11:45					11:45									
12:00	LUNCH and Open Forum	12:00	O1-A4	O1-B4	O1-C4	O1-D4	12:00	O3-A4	O3-B4	O3-C4	O3-D4	12:00								
12:15		12:15					12:15					12:15								
12:30		12:30	LUNCH				12:30	LUNCH				12:30								
12:45		12:45					12:45					12:45								
13:00		13:00					13:00					13:00								
13:15	13:15					13:15					13:15									

Afternoon Program

13:30	PLENARY: Introduction and instructions to Focused Group Discussions	13:30					13:30					13:30								
13:45		13:45	Poster Session & Innovation Booths				13:45	POSTER PITCHING COMPETITION				13:45								
14:00	14:00						14:00									14:00				
14:15	PARALLEL SESSIONS: FOCUSED GROUP DISCUSSIONS	14:15					14:15					14:15								
14:30		14:30	O2-A1	O2-B1	O2-C1	O2-D1	14:30	O4-A1	O4-B1	O4-C1	O4-D1	14:30								
14:45		14:45					14:45					14:45								
15:00		15:00	O2-A2	O2-B2	O2-C2	O2-D2	15:00	O4-A2	O4-B2	O4-C2	O4-D2	15:00								
15:15		15:15					15:15					15:15								
15:30		15:30	O2-A3	O2-B3	O2-C3	O2-D3	15:30	O4-A3	O4-B3	O4-C3	O4-D3	15:30								
15:45		15:45					15:45					15:45								
16:00		16:00	O2-A4	O2-B4	O2-C4	O2-D4	16:00	O4-A4	O4-B4	O4-C4	O4-D4	16:00								
16:15		16:15					16:15					16:15								
16:30		16:30					16:30	O4-A5	O4-B5		O4-D5	16:30								
16:45	16:45					16:45					16:45									
17:00	FELLOWSHIP DINNER	17:00	Innovation Pitch				17:00	CLOSING PROGRAM				17:00								
17:15		17:15										17:15					17:15			
17:30		17:30										17:30					17:30			
17:45		17:45										17:45					17:45			
18:00		18:00										18:00					18:00			
20:00						20:00	DINNER				20:00									

Day 1, Wednesday
June 15, 2011

8:00	REGISTRATION
9:00	OPENING PROGRAM Moderator: Dr. Arnel Salvador Dr. Gisela Concepcion, Chair 31APAMS and President PAASE Hon. Alfredo Pascual, UP President Engr. Mario G. Montejo, Secretary DOST Recognition Ceremony for Prof. Richard Heck, Nobel laureate in Chemistry, 2010
9:15	
9:30	
9:45	
10:00	
10:00	Morning Break
10:15	PLENARY LECTURES, PL1: Science and Engineering and Society Moderator: Dr. Arnel Salvador Cong. Joseph Emilio Abaya, Co-Chair of COMSTE Cong. Luis Villafuerte Dr. Abraham Pascual, Chairman Emeritus, Pascual Labs Engr. Diosdado Banatao, President, Tallwood Ventures Photo Session
10:30	
10:45	
11:00	
11:15	
11:30	
11:45	
12:00	LUNCH and Open Forum
12:30	
13:15	
13:30	PLENARY: Introduction and instructions to Focused Group Discussions Dr. Rigoberto Advincula
13:45	
14:00	PARALLEL SESSIONS: FOCUSED GROUP DISCUSSIONS FGD1: Initiatives to increase R&D funding FGD2: Government Legislation, and S&T Development FGD3: Science and Engineering Curriculum Review FGD4: Internal and external review FGD5: Environmental and Disaster Mitigation FGD6: Secondary Education: Curriculum Review in Science and Engineering from K-12 FGD 7: Energy and Sustainability FGD 8: Millennium Development Goals
14:30	
15:00	
15:30	
16:00	
16:30	
17:00	
17:30	
18:00	FELLOWSHIP DINNER
20:00	

Day 2, Thursday morning
June 16, 2011

8:30	<p align="center">PL2: SEVERINO AND PAZ KOH LECTURESHIP AWARDS IN SCIENCE & ENGINEERING Moderator: Dr. Alfonso Albano</p> <p>PL2-1: Dr. Carlito Lebrilla: "Sugar is spice – Glycosylation in the post-genome world" PL2-2: Dr. Felix Buot: "Discrete Quantum Mechanics and Topological Order: Spintronics, Pseudospintronics, and Topological Nanoelectronics"</p>			
8:45				
9:00				
9:15				
9:30				
9:45				
10:00	Morning break			
10:15				
	PARALLEL TECHNICAL SESSIONS 1			
	O1-A: Behavioral Sciences Moderator: Raul Suarez	O1-B: Environment 1 Moderator: Nemesio Montaña	O1-C: Energy 1 Moderator: Arnel Salvador	O1-D: Biomedical 1 Moderator: Liza Virata-Theimer
10:30	O1-A1 Mendoza, Eduardo R.: PhilSHIFT: Translating chronobiology research into health-risk reduction and productivity improvement in the Philippine BPO industry	O1-B1 De los Reyes, Francis L. III: Enhancing methane capture for energy generation by understanding methanogenesis initiation and microbial ecological succession in landfills	O1-C1 Agrupis, S.C.: Properties and Characterization of MMSU 95hBE Bioethanol	O1-D1 Albano, A. M.: Vasomotion becomes less random as diabetes progresses in monkeys
10:45				
11:00	O1-A2 Jose, Wilfredo I.: Introducing a locally-developed idea-generating technique for educational and research purposes	O1-B2 Dadios, Elmer P.: Controlling Water Quality Parameters of Milkfish Culture Using Neural Network	O1-C2 Almendrala, Michelle C.: Recycling biobutanol fermentation broth by ultrafiltration	O1-D2 Rojas, Nina Rosario L.: Polyethylene Oxide/Chitin/Chitosan Scaffolds for Possible Tissue Regeneration
11:15				
11:30	O1-A3 Flordelis, Evelyn V.: From Academe to Social Network	O1-B3 Aviso, Kathleen B.: Design of Robust Eco-industrial Water Exchange Networks Using Fuzzy Mathematical Optimization	O1-C3 Amante, A.D.: A Prototype Model of a Piezoelectric-based battery charging system	O1-D3 Roa, Marylette B.: Utilization of circulating tumor cells for dendritic cell priming
11:45				
12:00	O1-A4 Mistades, Voltaire Mallari: A Substantive-Level Theory of Teaching Introductory Physics	O1-B4 Llamado, Arlene L. : Comparison between culture-dependent and culture-independent approaches in the detection of dominant biofilm-forming bacteria from an abandoned mine soil	O1-C4 Bandyopadhyay, Santanu: Optimum sizing of standalone Photovoltaic Thermal (PVT) systems using design space approach	O1-D4 Chung, Francisco S. Jr. Autologous Dendritic Cell Transplantation as an Adjuvant Treatment for Lung Cancer
12:15				

Day 2, Thursday AFTERNOON
June 16, 2011

12:30	LUNCH			
13:15				
13:30	Poster Session & Innovation Booths			
14:15				
	PARALLEL TECHNICAL SESSIONS 2			
	O2-A: Climate Moderator: Gregory Tangonan	O2-B: Materials 1 Moderator: Armando Somintac	O2-C: Energy 2 Moderator: Elmer Dadios	O2-D: Biomedical 2 Moderator: Leah Tolosa
14:30	O2-A1 Comiso, Josefino C.: CO ₂ , Climate Change and Ocean Acidification	O2-B1 Bacabac, Rommel G.: Biorheology: Stretching Mechanics of Polymers Probed by Counting Winding Events	O2-C1 Agrupis, S.C.: Cellulosic Ethanol From Corn Stover Planted at Different Seeding Densities	O2-D1 Concepcion, Gisela & Uy, Iris: Analysis of the antibody structure based on high- resolution crystallographic studies
14:45				
15:00	O2-A2 Lloren, Ronald B.: Changes in precipitation and primary productivity in the Philippine internal seas during the Holocene	O2-B2 Baje, Benito A.: Preparation and Characterization of Silica Powder from Bamboo Leaves Ash	O2-C2 Almendrala, Michelle C.: Separation of butanol from ABE mixture using hollow fiber-contained liquid membrane	O2-D2 Saloma-Palmes C. Nanoparticles Show Pleiotropic Effects in Cultured Cells and Mouse Embryos
15:15				
15:30	O2-A3 Gregorio, Glenn B. "2-in-1" Rice Breeds: Combining the Tolerance of Salinity and Submergence	O2-B3 Fujii, Yusaku: Precision Mechanical Measurement Using the Levitation Mass Method (LMM)	O2-C3 Tan, Raymond: A Multi-Period Integer Programming Model for Optimal Source-Sink Matching in Carbon Capture and Storage Systems with Time Constraints	O2-D3 Gan Lim, Laurence A.: Using ANFIS to Classify Colonic Histopathological Images
15:45				
16:00	O2-A4 Siringan, Fernando Sea level changes in the Philippines from SSH data	O2-B4 Promentilla, Michael Angelo B.: 3D crack characterization from microtomographic images of cement-based materials	O2-C4 Mendoza, Teodoro C.: The Carbon Footprint of Sugar Production in Eastern Batangas, Philippines	O2-D4 Virata-Theimer, Maria Luisa A.: Investigation of a Serious Adverse Event: Hemolysis in Two Kawasaki Disease Patients After High-Dose Intravenous Immunoglobulin Therapy
16:15				
16:30	Innovation Pitch			
18:00				

Day 3, Friday morning
June 17, 2011

8:30	<p align="center">PL3: Scientific Plenary Lectures Moderator: Dr. Eduardo Mendoza</p> <p>PL3-1: Dr. Rigoberto Advincula (2010 Koh Lectureship Award): "Nanostructured Polymer and Hybrid Materials"</p> <p>PL3-2: Dr. Caesar Saloma: "Velocimetry of weakly reflecting microscopic samples by optical feedback semiconductor laser interference microscopy"</p>			
8:45				
9:00				
9:15				
9:30				
9:45				
10:00	Morning break			
10:15				
	PARALLEL TECHNICAL SESSIONS 3			
	O3-A: Natural Products Moderator: Irene Villaseñor	O3-B: Environment 2 Moderator: Raymond Tan	O3-C: Computational science & Mathematics Moderator: Michelle Almendrala	O3-D: Biomedical 3 Moderator: Ben de Lumen
10:30	O3-A1 Anterola, Aldwin: Moss Engineering for Anticancer Drug Production and Discovery	O3-B1 Quirit, Leni L.: Analysis of Radionuclides in Philippine Coal-Fired Thermal Power Plants: Comparison of ICP-MS and HPGE g-Spectroscopy	O3-C1 Dadios, Elmer P.: Hangul-Jamo Optical Character Recognition Utilizing Artificial Neural Networks	O3-D1 Jose, Pedro A.: Acute renal specific down-regulation of D2 dopamine receptors (D2R) results in increased expression of pro-inflammatory cytokines
10:45				
11:00	O3-A2 Carpio, Louie Paolo D.: Turrid venom as a potential source of neuropharmacological and other drug leads	O3-B2 Sta. Maria, Yvainne : Contrasting the rates and magnitude of erosion along the siliciclastic and carbonate coasts of La Union, Northwestern Philippines	O3-C2 Dadios, Elmer P.: Feed Forward Neural Network Based Hiragana Optical Character Recognizer	O3-D2 Padilla, Philip Ian: The molecular epidemiology of Helicobacter pylori
11:15				
11:30	O3-A3 Dayrit, Fabian M.: Coconut Phospholipids: Creating Value from Waste	O3-B3 Talib, Roslan: Survey on implementing sustainable issues into Interior Design Studios Project	O3-C3 Detalla, Alnar L.: Weighted Hardy-Sobolev Inequality with Finitely Many Remainder Terms in a Ball Domain	O3-D3 Tolosa, Leah: New Paradigms in Glucose Sensing
11:45				
12:00	O3-A4 Naing, Marvin D.: Alpha-glucosidase inhibitory compounds from <i>Terminalia catappa</i> leaves	O3-B4 Lim, Patrick John Y.: Synthesis of hydrotris(3,5-dimethylpyrazol-1-yl)borate copper(II) compounds: A preliminary report	O3-C4 Pascasio, Arlene A.: On Thin Irreducible - Modules with Endpoint 1	O3-D4 Haygood, Margo: Microbes and Mollusks: The Philippine Mollusk Symbiont ICBG explores bacteria associated with mollusks for drugs and enzymes
12:15				

Day 3, Friday afternoon
June 17, 2011

12:30	LUNCH			
13:15				
13:30	POSTER PITCHING COMPETITION			
14:15				
	PARALLEL TECHNICAL SESSIONS 4			
	O4-A: Agriculture & Biology Moderator: Francis delos Reyes	O4-B: Materials & Engineering Moderator: Wilson Garcia	O4-C: Biomedical 4 Moderator: Pedro Jose	O4-D: Biomedical 5 Moderator: Philip Ian Padilla
14:30	O4-A1 Suarez, Raul K.: Deforestation and Kaingin: Causes and Effects on Philippine Biodiversity	O4-B1 Uy, O. Manuel: Use of Design of Experiments Techniques to Help MESSENGER Reach Mercury	O4-C1 Gisela P. Concepcion Reinventing the research process in UP	O4-D1 Reyes, Joeriggo M.: Differentiating two antigenically-distinct strains of influenza: A structural- physicochemical analysis
14:45				
15:00	O4-A2 Perez, Gay Jane: Satellite Studies of Impacts of Warming on Philippine Vegetation	O4-B2 Pascua, Chelo S.: Clay Minerals as Advanced Nanomaterials	O4-C2 Ilag, Liza L.: The Need and Considerations for Diabetes Translational Research to Clinical Application in the Philippine Setting	O4-D2 Santos, Timothy Israel D.: Body Fat Meter Based on Capacitive Water-level Sensor
15:15				
15:30	O4-A3 Capareda, Sergio C.: Production of Ethanol from Sorghum Hybrids Developed at Texas A&M University	O4-B3 Salvaña, Camilo Jose S. III: Drop Rate Method of Determining Discharge Coefficients	O4-C3 Villalobos, Annabelle P.: Biotechnology and Biosimilars	O4-D3 Ayade, Heev L.: Elasticity of Single Biopolymers
15:45				
16:00	O4-A4 Cadiz, Nina M.: An Assessment in the Decline of Batangas Mandarin (Citrus reticulata Blanco) Production	O4-B4 Augusto, Gerardo L.: Hydraulic Calculation of District Cooling Distribution Network with Variable Primary Flow Pumping System	O4-C4 Seronay, Romell A. Biodiversity of Turrids in the Sandy Sediment Habitat and Lumun Lumun Nets in the Outer Barrier Reef, Northeast of Bohol, Philippines	O4-D4 Detera-Wadleigh, Sevilla D.: Biological networks formed by molecular targets of mood stabilizers, lithium and valproate, highlight a striking enrichment of apoptosis and neurotrophin signaling
16:15				
16:15	O4-A5 Magcale-Macandog, D.B.: Comparative Analysis of Land Use Patterns, Drivers and Impacts of Land Use Change in the Three Laguna Lake Subwatersheds: Sta. Rosa, Los Baños and Victoria	O4-B5 Apodaca, Dahlia: Detection of Folic acid using a Quartz Crystal Microbalance Sensor coated with Molecularly Imprinted Polymer Thin Film	O4-C5	O4-D5 De Guzman, Gonzalo: Exploring social and human- machine behavioral coordination through Virtual Partner Interaction
16:30	CLOSING PROGRAM			
16:45	Moderator: TBA			
17:00	Awarding of Outstanding Student Research (Liza Virata-Theimer, Chair Research Awards Committee)			
	Summary of FGD resolutions			
	Rigoberto Advincula, Incoming PAASE President			
17:15	Announcement of 32APAMS			
18:00	DINNER			

31st annual paase meeting and symposium

Master list of oral papers

Presenting Author	Title and Authors	Session
Agrupis, Shirley C.	Properties and Characterization of MMSU 95hBE Bioethanol S.C. Agrupis*, R. A. Ulep, N. Mateo, R. Ascano, M. B. Birginias, and F. B. Abenes	O1-C1
Agrupis, Shirley C.	Cellulosic Ethanol From Corn Stover Planted at Different Seeding Densities S.C. Agrupis1*, T. Ballard, S. Bansal, L.Haag, P. Vadlani, S. Staggenborg	O2-C1
Albano, A. M.	Vasomotion becomes less random as diabetes progresses in monkeys A. M. Albano, X. T. Tigno1, B. C. Hansen, S. Nawang, R. Shamekh	O1-D1
Almendrala, Michelle C.	Recycling biobutanol fermentation broth by ultrafiltration Michelle C. Almendrala*, Shang-Tian Yang	O1-C2
Almendrala, Michelle C.	Separation of butanol from ABE mixture using hollow fiber-contained liquid membrane Michelle C. Almendrala*, Shang-Tian Yang	O2-C2
Amante, A.D.	A Prototype Model of a Piezoelectric-based battery charging system A.D. Amante*, M.J.S. De Sagun, R.C. Dimayuga, S.T.Lim	O1-C3
Anterola, Aldwin	Moss Engineering for Anticancer Drug Production and Discovery Aldwin Anterola*, Robert Ham, Laura Murphy, Pierre-Francois Perroud, Ralph Quatrano	O3-A1
Augusto, Gerardo L.	Hydraulic Calculation of District Cooling Distribution Network with Variable Primary Flow Pumping System Gerardo L. Augusto* and Alvin B. Culaba	O4-B4
Aviso, Kathleen B.	Design of Robust Eco-industrial Water Exchange Networks Using Fuzzy Mathematical Optimization Kathleen B. Aviso*	O1-B3
Ayade, Heev L.	Elasticity of Single Biopolymers Heev L. Ayade, Albert James Licup, Christopher Bernido, Ma. Victoria Carpio-Bernido, Roland Otadoy, Rommel G. Bacabac	O4-D3
Bacabac, Rommel G.	Biorheology: Stretching Mechanics of Polymers Probed by Counting Winding Events Rommel G. Bacabac, Albert Licup, Heev Ayade, Lara Gay M. Villaruz, Christopher Bernido, Ma. Victoria Carpio-Bernido, Roland Otadoy	O2-B1
Baje, Benito A.	Preparation and Characterization of Silica Powder from Bamboo Leaves Ash Benito A. Baje*, Marlyn Villareal, Princess Juniere Peligro, Blessie Denise Chung, Kimiko Espiritu	O2-B2
Bandyopadhyay, Santanu	Optimum sizing of standalone Photovoltaic Thermal (PVT) systems using design space approach G.S. Krishna Priya, Santanu Bandyopadhyay	O1-C4
Cadiz, Nina M.	An Assessment in the Decline of Batangas Mandarin (Citrus reticulata Blanco) Production	O4-A4

Presenting Author	Title and Authors	Session
	Nina M. Cadiz, J.R. Velasco, A. A. Alejar and M.L. Dionisio-Sese	
Capareda, Sergio C.	Production of Ethanol from Sorghum Hybrids Developed at Texas A&M University Sergio C. Capareda*	O4-A3
Carpio, Louie Paolo D.	Turrid venom as a potential source of neuropharmacological and other drug leads Louie Paolo D. Carpio, April B. Cabang, Carla A. Omega, Joven A. Ramirez, Iris Bea L. Ramiro, Estuardo Lopez-Vera, Sean B. Christensen, Julita S. Imperial, Baldomero M. Olivera and Gisela P. Concepcion	O3-A2
Chung, Francisco S. Jr.	Autologous Dendritic Cell Transplantation as an Adjuvant Treatment for Lung Cancer Francisco S. Chung Jr., Guia Imelda Elena R. Ladrera, Nelia S. Tan-Liu, Monique D. Barile, May Lanie B. Fuentes, Joseph Leonard Z. Obusan, Ramoncito Habaluyas, Sullian Sy-Naval, Ernesto Yuson, Jose Luis J. Danguilan, Juanito A. Rubio, Maria Teresa A. Barzaga	O1-D4
Comiso, Josefino C.	CO₂, Climate Change and Ocean Acidification Josefino C. Comiso	O2-A1
Concepcion, Gisela & Uy, Iris	Analysis of the antibody structure based on high-resolution crystallographic studies Jo Erika T. Narciso Iris Diana C. Uy April B. Cabang Jenina Faye C. Chavez Juan Lorenzo B. Pablo, Gisela P. Padilla-Concepcion and Eduardo A. Padlan	O2-D1
Concepcion, Gisela	Reinventing the Research Process in UP Gisela P. Padilla-Concepcion	O4-C1
Dadios, Elmer P.	Controlling Water Quality Parameters of Milkfish Culture Using Neural Network Jojo F. Blanza*, Elmer P. Dadios**	O1-B2
Dadios, Elmer P.	Feed Forward Neural Network Based Hiragana Optical Character Recognizer Kenneth Aldrin O. Prudencio*, Elmer P. Dadios**	O3-C2
Dadios, Elmer P.	Hangul-Jamo Optical Character Recognition Utilizing Artificial Neural Networks Argel A. Bandala, Elmer P. Dadios	O3-C1
Dayrit, Fabian M.	Coconut Phospholipids: Creating Value from Waste Meryl Monericke M.Aquino, Joseph D. Unsay, and Fabian M. Dayrit*	O3-A3
De los Reyes, Francis L. III	Enhancing methane capture for energy generation by understanding methanogenesis initiation and microbial ecological succession in landfills Francis L. de los Reyes III*, Bryan F. Staley, Mort A. Barlaz	O1-B1
Detalla, Alnar L.	Weighted Hardy-Sobolev Inequality with Finitely Many Remainder Terms in a Ball Domain Alnar L. Detalla	O3-C3

Presenting Author	Title and Authors	Session
Flordelis, Evelyn V.	From Academe to Social Network Evelyn V. Flordelis, Erna V. Yabut, Tita Branzuela, Jennifer Florida	O1-A3
Fujii, Yusaku	Precision Mechanical Measurement Using the Levitation Mass Method (LMM) Yusaku Fujii	O2-B3
Gan Lim, Laurence A.	Using ANFIS to Classify Colonic Histopathological Images Laurence A. Gan Lim, Raouf N.G. Naguib, Elmer P. Dadios, Jose Maria C. M Avila	O2-D3
Gregorio, Glenn B.	"2-in-1" Rice Breeds: Combining the Tolerance of Salinity and Submergence Andres Godwin A. Sajise, Swe Zin Myint Thein, Enrico Francisco L. Mercado, Luzminda Refuerzo, Naireen Aiza G. Vispo, Marydee V. Arceta, Maria Florida M. Cueto, Apolonio N. Mamiit, Manuel Q. Esguerra, Georgina V, Vergara, Abdelbagi M. Ismail, David J. Mackill, Rakesh K. Singh, Glenn B. Gregorio*	O2-A3
Haygood, Margo	Microbes and Mollusks: The Philippine Mollusk Symbiont ICBG explores bacteria associated with mollusks for drugs and enzymes Margo Haygood, Gisela Concepcion, Gary Rosenberg, Eric Schmidt, Daniel Distel and Baldomero Olivera	O3-D4
Ilag, Liza L.	The Need and Considerations for Diabetes Translational Research to Clinical Application in the Philippine Setting Liza L. Ilag*, Elizabeth Paz-Pacheco	O4-C2
Jose, Pedro A.	Acute renal specific down-regulation of D2 dopamine receptors (D2R) results in increased expression of pro-inflammatory cytokines Ines Armando, Santiago Gomez Cuevas, Yanrong Zhang, Laureano Asico, Crisanto Escano, Pedro A. Jose*	O3-D1
Jose, Wilfredo I.	Introducing a locally-developed idea-generating technique for educational and research purposes Wilfredo I. Jose	O1-A2
Lim, Patrick John Y.	Synthesis of hydrotris(3,5-dimethylpyrazol-1-yl)borate copper(II) compounds: A preliminary report Louise Marie C. Cañada, Jan Vincent M. Nazareno, Jeff Rey F. Melgo, and Patrick John Y. Lim*	O3-B4
Llamado, Arlene L.	Comparison between culture-dependent and culture-independent approaches in the detection of dominant biofilm-forming bacteria from an abandoned mine soil Arlene L. Llamado and Asuncion K. Raymundo	O1-B4
Lloren, Ronald B.	Changes in precipitation and primary productivity in the Philippine internal seas during the Holocene Ronald B. Lloren, Fernando P. Siringan, and Alyssa Peleo-Alampay	O2-A2
Mendoza, Teodoro C.	The Carbon Footprint of Sugar Production in Eastern Batangas, Philippines Teodoro C. Mendoza	O2-C4

Presenting Author	Title and Authors	Session
Mendoza, Eduardo R.	PhilSHIFT: Translating chronobiology research into health-risk reduction and productivity improvement in the Philippine BPO industry Eduardo R. Mendoza	O1-A1
Mistades, Voltaire Mallari	A Substantive-Level Theory of Teaching Introductory Physics Voltaire Mallari Mistades*	O1-A4
Naing, Marvin D.	Alpha-glucosidase inhibitory compounds from Terminalia catappa leaves Evangeline C. Amor Ph.D., Rose Marie G. Perono, Marvin D. Naing	O3-A4
Padilla, Philip Ian	The molecular epidemiology of Helicobacter pylori Philip Ian Padilla	O3-D2
Pascasio, Arlene A.	On Thin Irreducible -Modules with Endpoint 1 Arlene A. Pascasio and Paolo Lorenzo Y. Bautista	O3-C4
Pascua, Chelo S.	Clay Minerals as Advanced Nanomaterials Chelo S. Pascua	O4-B2
Perez, Gay Jane	Satellite Studies of Impacts of Warming on Philippine Vegetation Gay Jane Perez* and Josefino Comiso	O4-A2
Promentilla, Michael Angelo B.	3D crack characterization from microtomographic images of cement-based materials Michael Angelo B. Promentilla*, Takafumi Sugiyama	O2-B4
Quirit, Leni L.	Analysis of Radionuclides in Philippine Coal-Fired Thermal Power Plants: Comparison of ICP-MS and HPGE g-Spectroscopy Vangelina K. Parami, Sarata K. Sahoo, Hidenori Yonehara, Shino Takeda and Leni L. Quirit	O3-B1
Reyes, Joeriggo M.	Differentiating two antigenically-distinct strains of influenza: A structural-physicochemical analysis Joeriggo M. Reyes	O4-D1
Roa, Marylette B.	Utilization of circulating tumor cells for dendritic cell priming Marylette B. Roa*, Monique D. Barile, Francisco S. Chung Jr., Nelia S. Tan-Liu, Ma. Teresa A. Barzaga	O1-D3
Rojas, Nina Rosario L.	Polyethylene Oxide/Chitin/Chitosan Scaffolds for Possible Tissue Regeneration Joy Edilen A. Codia, Soma Chakraborty, and Nina Rosario L. Rojas	O1-D2
Saloma-Palmes, Cynthia P.	Nanoparticles Show Pleiotropic Effects in Cultured Cells and Mouse Embryos Cynthia Palmes-Saloma*, Myka Francesca R. Ababon, Ma. Azelea V. Laqui	O2-D2
Salvaña, Camilo Jose S. III	Drop Rate Method of Determining Discharge Coefficients Camilo Jose S. Salvaña III	O4-B3
Santos, Timothy Israel D.	Body Fat Meter Based on Capacitive Water-level Sensor Timothy Israel D. Santos*, Darryl P. Valencia	O4-D2
Seronay, Romell A.	Biodiversity of Turrids in the Sandy Sediment Habitat and Lumun Lumun Nets in the Outer Barrier Reef, Northeast of Bohol, Philippines Romell A. Seronay, Alexander E. Fedosov, Gisela P. Concepcion, Porfirio M. Aliño,	O4-C4

Presenting Author	Title and Authors	Session
	Baldomero M. Olivera	
Siringan, Fernando	Sea level changes in the Philippines from SSH data Fernando Siringan, Yvaine Sta. Maria, Marilou Martin, Cesar Villanoy, Raul Capistrano, Roselle Borja, Laura David	O2-A4
Sta. Maria, Yvaine	Contrasting the rates and magnitude of erosion along the siliciclastic and carbonate coasts of La Union, Northwestern Philippines Yvaine Sta. Maria, Fernando Siringan, Rose Berdin, Caroline Marie Jaraula, Peter Zamora, Cristina Remotigue, and Generose Pang-ot	O3-B2
Suarez, Raul K.	Deforestation and Kaingin: Causes and Effects on Philippine Biodiversity Raul K. Suarez	O4-A1
Talib, Roslan	Survey on implementing sustainable issues into Interior Design Studios Project Roslan Talib*, Mzailan Sulieman	O3-B3
Tan, Raymond R.	A Multi-Period Integer Programming Model for Optimal Source-Sink Matching in Carbon Capture and Storage Systems with Time Constraints Raymond R. Tan, Kathleen B. Aviso, Santanu Bandyopadhyay, Denny Kok Sum Ng	O2-C3
Tolosa, Leah	New Paradigms in Glucose Sensing Leah Tolosa*, Xudong, Ge, Hung Lam, Yordan Kostov, Govind Rao	O3-D3
Uy, O. Manuel	Use of Design of Experiments Techniques to Help MESSENGER Reach Mercury O. Manuel Uy	O4-B1
Villalobos, Annabelle P.	Biotechnology and Biosimilars Annabelle P. Villalobos	O4-C3
Virata-Theimer, Maria Luisa A.	Investigation of a Serious Adverse Event: Hemolysis in Two Kawasaki Disease Patients After High-Dose Intravenous Immunoglobulin Therapy Maria Luisa A. Virata-Theimer, Dorothy E. Scott, Mei-ying W. Yu, and Naomi L.C. Luban	O2-D4
Macandog-Magcala, Damasa	Comparative Analysis of Land Use Patterns, Drivers and Impacts of Land Use Change in the Three Laguna Lake Subwatersheds: Sta. Rosa, Los Baños and Victoria D.B. Magcale-Macandog, J.L. Balon, K. Engay, O.B. Nicopior, D. Luna	O4-A5
Apodaca, Dahlia C	Detection of Folic acid using a Quartz Crystal Microbalance Sensor coated with Molecularly Imprinted Polymer Thin Film Dahlia C. Apodaca, Roderick B. Pernites, c Ramakrishna Ponnapati, c Florian R del Mundob and Rigoberto C. Advinculab, c	O4-B5
De Guzman, Gonzalo	Exploring social and human-machine behavioral coordination through Virtual Partner Interaction Gonzalo de Guzman, Emmanuelle Tognoli, J.A.S. Kelso	O4-D5

31st annual paase meeting and symposium

Master list of poster papers

Session	Title and Authors
Ag 01	MCU-Based Aquaculture System Voltaire B. De Leon*, Alejandro H. Ballado Jr., Pablo M. Dychitan Jr., Regie C. Gustilo
Ag 02	Automated Fish Fry Counting and Schooling Behavior Analysis Using Computer Vision R. T. Labuguen and E. J. P. Volante*, A. Causo, G. Peren, R. Bayot, N. J. C. Libatique, G. L. Tangonan, R. M. Macaraig
Bi 01	Bacterial endosymbionts of Kuphus polythalamia, the world's largest shipworm Marvin Altamia*, Meghan Betcher, Julie Albano, Rande Dechavez, Imelda Forteza, Rowena Antemano, Mary Anne Astilla-Ammon, Rommel Seronay, Gisela Concepcion, Margo Haygood, Jennifer Fung & Daniel Distel
Bi 02	Prevalence of Salmonella enterica in tonsil tissues and jejunum of asymptomatic swine slaughtered in locally registered meat establishments in Bulacan and Quezon City Kamela Charmaine S. Ng*, Windell L. Rivera
Bi 03	Characterization of Some Developmental Changes in Pyrodinium bahamense var. compressum as revealed by Confocal Laser Scanning Microscopy (CLSM) Deo Florence L. Onda*, Rhodora V. Azanza and Arturo O. Lluisma
Bi 04	Effect of Surface Adhesive Forces on Local Elasticity of Living Mammalian Cells Lara Gay M. Villaruz*, Edna Mariz M. Bitanga, Ma. Victoria Carpio-Bernido, Christopher Bernido, Roland Otadoy, Rommel G. Bacabac
Bm 01	Neuroactive compounds from marine cone snail-associated bacteria screened by calcium signaling in dorsal root ganglion primary neurons Rowena Antemano*, Zhenjian Lin, Ronald Hughen, Olivier Peraud, Christopher Reilly, Lenny Marett, Gisela Concepcion, Margo Haygood, Baldomero Olivera, Alan Light, Eric Schmidt
Bm 02	Single Nucleotide Polymorphism Genotyping of Antithrombotic Therapy Resistance Markers using Tetra-Primer Arms PCR and High Resolution Melting Analysis Gerald Ryan R. Aquino*, Kristine M. Cangas, Ma. Alegria T. Caringal, Denice Mae Palmos, Bianca Beatriz V. Trocino, Jose Enrico H. Lazaro+
Bm 03	Differential Gene Expression in Zebrafish (<i>Danio rerio</i>) upon Exposure to Sublethal Concentrations of Hexavalent Chromium Gerald Ryan R. Aquino*, Felichi Mae P. Arines, Gihanna Gaye S.T. Galindez, Joseph Michael Le Lim, Jose Enrico H. Lazaro
Bm 04	Evaluation of Immunologic Interactions between an HLA-typed Cancer Patient and Tumor-associated Antigens using In Silico and In Vitro Approaches Ruby Anne N. King* and Francisco S. Chung Jr.
Bm 05	Production and Preliminary Immunological Characterization of Recombinant De-antigenized Influenza H3 Agglutinin Gisela P. Concepcion, Lisa E. Lamberte*, Lydia Teresa Isabel Salud-Bautista, Jortan O. Tun, Neda Barghi, Marvin A. Altamia, Jenina Faye C. Chavez, Juan Lorenzo B. Pablo, Ameurфина D. Santos, Luz P. Acosta, Fidel F. Malbas, Remigio O. Olveda, Eduardo A. Padlan
Bm 06	Angiotensin I-Converting Enzyme and its Inhibition by Indigenous Fermented Foods Dulce M. Flores, Kristine Mae Y. Abao, Mitchell Rey M. Toleco*

Session	Title and Authors
Bm 07	Virulence factor genes analysis of methicillin-resistant staphylococcus aureus (MRSA) isolates from Makati Medical Center, Philippines Demetrio L. Valle Jr. *, Windell L. Rivera
Cl 01	Coral assemblage of mid-Holocene uplifted reefs of Currimao, Ilocos Norte and Punta Dumalag, Davao City: Implications on the resilience of present-day reefs to projected further warming of seas Riovie D. Ramos*, Fernando P. Siringan, Wilfredo Licuanan
En 01	Optimization of Microwave-Enhanced Transesterification for Coconut Biodiesel Production Joy Rochelle V. Conejos*, Susan A. Roces, Florinda T. Bacani, Raymond R. Tan
En 02	An analysis of energy use in commercial buildings using Energy Intensity Reduction Modelling and Evaluation Method Jeremias A. Gonzaga*
En 03	Wind power assessment of Bangkal, Abucay, Bataan using Weibull distribution model Eugene V. Vega
En 04	Optimal Operational Adjustment in Multi-Functional Energy Systems in Response to Process Inoperability Raymond R. Tan, Ivan Dale U. Barilea*
Ev 01	Trends, possible causes and strategies for mitigation of coastal erosion in the Guimaras province Jenny S. Aggangan*, Fernando P. Siringan
Ev 02	Paracetamol Degradation by Electro-Fenton and Photoelectro-Fenton Using a Double Cathode Electrochemical Cell M.L.Veciana*, M.D.G. de Luna, M.C. Lu
Mr 01	A Statistical Approach to Object Localization in Digital Holographic Microscopy in the Presence of Residual Aberration Timothy Joseph T. Abregana*, Anne Margarette S. Maallo and Percival F. Almoro
Mr 02	Well width dependence of radiative carrier lifetimes in GaAs/Al_{0.3}Ga_{0.7}As single quantum wells at 77K Jessica Afalla*, Maria Herminia Balgos, Jeremy Porquez, Jasher John Ibanez, Arnel Salvador, Armando Somintac
Mr 03	Synthesis, Characterization and Application of Imidazolium Ionic Liquid-Capped Photocatalytic Quantum Dots in Recycled Polymer Fibers for Pollutant Degradation in Wastewaters Herdeline Ann Ardoña*, Fiona Paredes, Arlene Bartolome, Ian Harvey Arellano, Susan Arco
Mr 04	Zeolite Y/ Iridium (III) dye/TiO₂ Photocatalytic Assemblies: Synthesis, Characterization and Photocatalytic Activity Testing Maxx Q. Arguilla*, Leon M. Payawan Jr., Jim Josephus G. Minglana and Jossana A. Damasco
Mr 05	Tapered-tip indium oxide nanostructures grown on glass substrate Fritz Christian Awitan*, Mae Agatha Tumanguil, Neil Irvin Cabello, Jeffrey de Vero, Michael Defensor, Armando Somintac and Arnel Salvador
Mr 06	Carrier lifetime measurement on GaAs/AlGaAs core-shell nanowires using Time Resolved Photoluminescence Spectroscopy Maria Herminia Balgos*, Rafael Jaculbia, Jasher Ibanez, Michelle Bailon-Somintac, Michael Defensor, Arnel Salvador, and Armando Somintac

Session	Title and Authors
Mr 07	3D tracking of Optical Vortices using a Statistical Algorithm for Phase Map Analysis Rommel L. Bartolome*, Anne Margarete S. Maallo and Percival F. Almoró
Mr 08	Synthesis and Characterization of C-Ag Composite Nanomaterials for Battery Electrode Applications Ruby Michelle M. Buot*, Gil Nonato C. Santos
Mr 09	Formation of Rutile and Anatase Titanium Dioxide Nanotubes Ed Adrian Dilla*, Celestino Andrew Borja, Renato Daclan Jr., Michael Defensor, Arnel Salvador, Armando Somintac
Mr 10	Characterization of Silver Nanomaterials synthesized by Horizontal Vapor Phase Crystal Growth Technique for Antimicrobial Purposes Wilfred V. Espulgar*, Gil Nonato C. Santos
Mr 11	Synthesis, Characterization and Application of Imidazolium Ionic Liquid-Capped CdS Quantum Dots in PET Fibers as a Photocatalyst for the Photodegradation of Methylene Blue Ana Katrina Estandarte*, Fiona Paredes, Arlene Bartolome, Ian Harvey Arellano, Susan Arco
Mr 12	Kinetics of mullite formation as observed from in situ and time-resolved XRD analysis M. C. T. Garcia* and C. S. Pascua
Mr 13	Raman Spectroscopic Studies of Porous Silicon Fabricated via Electrochemical Etching Rhona Olivia M. Gonzales*, Neil Irvin F. Cabello, Michael J. Defensor, Armando S. Somintac
Mr 14	300K Tunneling in GaAs/Al_xGa_{1-x}As Asymmetric Double Quantum Wells Observed via Time resolved Photoluminescence Spectroscopy R.B.Jaculbia*, M.J.Defensor, M.H.M.Balgos, J.G.Porquez, K.Omambac, A.A.Salvador, A.S.Somintac
Mr 15	Reactive Ion Etching of Gallium Arsenide Rengie Mark Mailig*, Maria Emma Villamin, Gino Leynes, Arnel Salvador, Armando Somintac
Mr 16	Al_{0.3}Ga_{0.7}As/GaAs HEMT Band Diagram Simulation using Variable Shooting Method Renebeth B. Payod*, Jasher John Ibañez, Armando S. Somintac
Mr 17	A Comparative Study on the THz Emission of Annealed LTG:GaAs Grown on SI and n+ GaAs Substrates Elizabeth Ann P. Prieto*, Christopher T. Que, Elmer S. Estacio, Armando S. Somintac, Arnel A. Salvador, Kohji Yamamoto, and Masahiko Tani
Mr 18	Enhanced adhesion of epoxy on a stainless steel surface treated with O₂/Ar microwave plasma Julie Anne Ting*, Ma. Camille Lacdan, Leo Mendel Rosario, Henry Ramos, Roy Tumlos
Mr 19	X-ray pole figure mapping of GaAs/AlGaAs core-shell nanowires on Si substrates Mae Agatha C. Tumanguil*, Peter Jeffrey Maloles, Jasher John A. Ibañez, Michael J. Defensor, Arnel A. Salvador, Armando S. Somintac
Mr 20	Study of plasma emission spectral properties and film characteristics of pulsed laser deposited Bi₂Sr₂CaY_{1-x}Cu₂O in vacuum and ambient air Jaziel R. Vitug*, Jeffrey C. De Vero, Roland V. Sarmago and Wilson O. Garcia

Session	Title and Authors
Mr 21	Free-Standing Conductive Nontronite- Polyaniline Nanocomposite A.V.Gillado* and C. S. Pascua
Mr 22	Synthesis and Phase Separation of a Diblock Copolymer with Electroactive Pendant Unit Gillian Hope S. Macusi*, Florentino Sumera and Rigoberto Advincula
Mr 23	Synthesis of a Terthiophene-Functionalized Precursor Polymer Using Reversible Addition Fragmentation Chain-Transfer Polymerization Shemaiah S. Pascua*, Gillian Hope S. Macusi, Maria Celeste R. Tria, Florentino C. Sumera, Rigoberto C. Advincula
Np 01	In vitro antimicrobial efficacy of combinations of Philippine medicinal plants Charmine M. Alcantara
Np 02	A Group of Actinomycin Compounds Isolated from a Sponge-associated Actinomycete Azcuna M.A*, Concepcion G.P., Zaulda F., Foronda L, de la Cruz N., Okino T., Anas A.
Np 03	Isolation of Marine Mollusk-Associated Bacteria for use as Anti-Bacterial and Anti-Cancer Leads Malem S. Flores*, Mary Anne A. Ammon, Imelda L. Forteza, Ma. Gwen Jane P. Limbaco, Gaiselle F. Mabeza, Clarisse A. Quimio, Mitchell Rey R. Toleco, Joshua Rey P. Torres, Gisela P. Concepcion, and Margo G. Haygood
Np 04	Anti-influenza constituents from the sponge-associated bacterium, <i>Quadrisphaera granulorum</i> Julius Adam V. Lopez*, Ciara Christianne Y. Lim, Janiza Lianne Foronda, Irene M. Villasenor, Gisela P. Concepcion, Tatsufumi Okino
Np 05	Antimicrobial compound from associated-bacteria of a turrid, <i>Lienardia rubida</i> Gaiselle Mabeza*, Imelda Forteza, Zhenjian Lin, Margo Haygood, Eric Schmidt, Gisela Concepcion
Np 06	Isolation of Jorunnamycin A from a Philippine Blue Sponge <i>Xestospongia sp.</i> Hilbert DS. Magpantay*, Louvy Lynn C. Punzalan, Irene M. Villaseñor, Gisela P. Concepcion and Naoki Saito
Np 07	Phytochemical Analysis and Bioactivity Evaluation of an Herbal Dietary Supplement Julius Victorius A. Saluria* and Evangeline C. Amor
Ph 01	Computer Generated Holograms of Optical Vortices Charmaine Rose B. delos Reyes* and Percival F. Almor
Ph 02	High Resolution Technique for the Evaluation of Object Tilt and Rotation Using Amplitude Variance of Reconstructed Wavefronts Jae Lord Dexter C. Filipinas* and Percival F. Almoro
Ph 03	Aberration and misalignment correcting set-up for generation of Bessel beam Paul Leonard Hilario*, Kristine Faith Roque, Maria Eloisa Ventura, Giovanni Tapang
Ph 04	Simultaneous Multi-Plane Light Modulation Mark Jayson Villangca*, Paul Leonard Atchong Hilario, Giovanni Tapang
En 05	Computational Fluid Dynamics Analysis of Microalgae Solar Dryer for Biofuel Production Aristotle T. Ubando*, Neil Stephen A. Lopez1b, Alvin B. Culaba1c, and Raymond R. Tan
En 06	Turbulence Model Validation of a Savonius Wind Turbine using ANSYS CFD Software Aristotle T. Ubando*
Mr 21	Detection of 2, 4-dinitrotoluene (DNT) via Two-Dimensional Molecularly Imprinted Monolayers using the QCM and EIS Methods Dahlia C. Apodaca*, Roderick B. Pernites, Florian R. Del Mundo and Rigoberto C. Advincula

book of abstracts

31st annual paase meeting and symposium

discovery, invention and
innovation papers

Dii-01

31st Annual Paase Meeting and Symposium
June 15-18, 2011
National Institute of Physics, University of the Philippines - Diliman

Device fabrication and characterization of $n\text{-In}_x\text{Al}_{1-x}\text{As}/\text{In}_y\text{Ga}_{1-y}\text{As}$ Metamorphic High Electron Mobility Transistor (MHEMT) on GaAs Substrate

Jonathan D. Azares*, Fritz Christian B. Awitan, Rafael B. Jaculbia, Jasher John Ibanez, Michael J. Defensor, Armando S. Somintac, Arnel A. Salvador

Condensed Matter Physics Laboratory – Semiconductor Research Group
National Institute of Physics, University of the Philippines Diliman
Email: jazares@nip.edu.ph

Dii-02

31st Annual Paase Meeting and Symposium
June 15-18, 2011
National Institute of Physics, University of the Philippines - Diliman

Philippine marine biodiversity: a pharmacological mining ground for neuroactive and anti-cancer agents

April Cabang^{1*}, Zenaida Bojo¹, Malem Flores¹, Rowena Antemano¹, Sonia Jacinto², Julita Imperial³, Zhinjian Lin⁴, Eric Schmidt⁴, Margo Haygood⁵, Baldomero Olivera³, Gisela Concepcion¹

¹ Marine Science Institute, University of the Philippines, Diliman, Quezon City, Philippines

² Institute of Biology, University of the Philippines, Diliman, Quezon City, Philippines

³ Department of Biology, University of Utah, Salt Lake City, UT, USA

⁴ Department of Medicinal Chemistry, University of Utah, Salt Lake City, UT, USA

⁵ Department of Environmental and Biomolecular Systems, OGI School of Science and Engineering, OR, USA

Email: aprilcabang@gmail.com

Dii-03

31st Annual Paase Meeting and Symposium
June 15-18, 2011
National Institute of Physics, University of the Philippines - Diliman

Photoluminescence Properties of Nanoporous Silicon Fabricated via Electrochemical Etching

Neil Irvin Cabello*, Rhona Olivia Gonzales, Arnel Salvador, Armando Somintac

Condensed Matter Physics Laboratory, National Institute of Physics
University of the Philippines, Diliman, Quezon City, Philippines
Email: ncabello@nip.upd.edu.ph

Dii-04

31st Annual Paase Meeting and Symposium

June 15-18, 2011

National Institute of Physics, University of the Philippines - Diliman

MCU-Based Aquaculture System

Voltaire B. De Leon*, Alejandro H. Ballado, Jr., Pablo M. Dychitan, Jr., Regie C. Gustilo

Graduate School, Mapua Institute of Technology

Intramuros, Manila

Email: Voltaire.deleon@yahoo.com

Dii-05

31st Annual Paase Meeting and Symposium

June 15-18, 2011

National Institute of Physics, University of the Philippines - Diliman

High T_c superconducting films prepared by 1064 nm Nd:YAG Pulsed Laser Deposition

Jeffrey C. De Vero, Wilson O Garcia, and Roland V. Sarmago

National Institute of Physics, University of the Philippines, Diliman, Quezon City 1101, Philippines.

*Corresponding author e-mail: jcdevero@up.edu.ph

Dii-06

31st Annual Paase Meeting and Symposium

June 15-18, 2011

National Institute of Physics, University of the Philippines - Diliman

PhilSHIFT Research Group Studying the Filipino Chronotype

Maria Eliza Aguila, Gayline Manalang, Darwin Dasig, Richard Bryann Chua, Till Roenneberg, Celine Velter, Jingky

Lozano-Kuhne, Roselyn Gabud, Eduardo Mendoza

University of the Philippines Manila & Institute of Medical Psychology, Ludwig Maximilians University, Munich

Dii-07

31st Annual Paase Meeting and Symposium

June 15-18, 2011

National Institute of Physics, University of the Philippines - Diliman

Automated Fish Fry Counting and Schooling Behavior Analysis Using Computer Vision

R. T. Labuguen and E. J. P. Volante

A. Causo, G. Peren, R. Bayot, N. J. C. Libatique, G. L. Tangonan, R. M. Macaraig

Department of Electronics, Computer and Communications Engineering

Ateneo de Manila University, Loyola Heights, Quezon City

rollyn_tl@yahoo.com

edseljose@yahoo.com

Dii-08

31st Annual Paase Meeting and Symposium
June 15-18, 2011
National Institute of Physics, University of the Philippines - Diliman

**DE-ANTIGENIZATION: MOVING CLOSER TO A VACCINE THAT PROTECTS AGAINST
MULTIPLE INFLUENZA STRAINS**

Lisa E. Lamberte¹, Jortan O. Tun¹, Lydia Teresa Isabel Salud-Bautista¹, Neda Barghi¹, Marvin A. Altamia¹, Jenina Faye C. Chavez¹, Juan Lorenzo B. Pablo¹, Ameurfina D. Santos², Eduardo A. Padlan¹, Gisela P. Concepcion¹,
¹*Marine Science Institute, College of Science, University of the Philippines, Diliman, Quezon City 1101*
²*National Institute of Molecular Biology and Biotechnology, College of Science, University of the Philippines, Diliman, Quezon City 1101*

Dii-09

31st Annual Paase Meeting and Symposium
June 15-18, 2011
National Institute of Physics, University of the Philippines - Diliman

**Expanding a Medical Diagnostics Mobile Tool for Pediatric Care to include Risk
Assessment for Pregnant Women in Low-Income Countries**

Michael B. Syson, M.S.

Ateneo de Manila University and the Ateneo Innovation Center
Loyola Heights, Quezon City, 1108, Philippines
Email: m.syson@yahoo.com

Dii-10

31st Annual Paase Meeting and Symposium
June 15-18, 2011
National Institute of Physics, University of the Philippines - Diliman

Image Processing Assisted Tool for Hand Movement Disorder Characterization

Talusan, Jose Paolo V., Ramos, Elaine Valerie E., Tangonan, Gregory L., Libatique, Nathaniel C.
Ateneo De Manila University and Electronics, Communications and Computer Engineering
Katipunan Avenue, Loyola Heights, Quezon City
Email: jptalusan@gmail.com

Dii-11

31st Annual Paase Meeting and Symposium

June 15-18, 2011

National Institute of Physics, University of the Philippines - Diliman

A Marine Science Museum for the UP Diliman National Science Complex

**Lucila R. Taylor¹, Dylan Taylor¹, Dr. Margo G. Haygood², Dr. Wilson O. Garcia³
Dr. Baldomero M. Olivera⁴ and Dr. Gisela P. Concepcion⁵**

¹Mactan Island Aquarium Museum, Lapu-Lapu City, Cebu 6015

²Department of Environmental and Biomolecular Systems, OGI School of Science & Engineering
Oregon Health & Science University, Beaverton, Oregon 97006, USA

³National Institute of Physics, University of the Philippines, Diliman, Quezon City 1101

⁴Department of Biology, University of Utah, Salt Lake City, Utah 84112, USA

⁵Marine Science Institute, University of the Philippines, Diliman, Quezon City 1101

Email: thefishstation@gmail.com

Dii-12

31st Annual Paase Meeting and Symposium

June 15-18, 2011

National Institute of Physics, University of the Philippines - Diliman

Rapid and accurate detection kit for amebiasis patients through salivary IgA

Windell L. Rivera^{1,2}, Alexander Edward S. Dy¹, Angeline Odelia C. Concepcion¹

¹Institute of Biology, College of Science, University of the Philippines, Diliman, Quezon City

²Natural Sciences Research Institute, University of the Philippines, Diliman, Quezon City

Email: wlriviera@science.upd.edu.ph

31st annual paase meeting and symposium

BENEFACTORS

SPECIAL THANKS TO OUR
PLATINUM BENEFACTOR

JOSEFINO C. COMISO Ph.D.

for donating the royalties of his book,

“POLAR OCEANS FROM SPACE”

to PAASE.

The royalties have been used to sponsor
student registration for 31 APAMS.

Benefactors

GOLD

Paz Koh

BRONZE

Al Albano

Rosalia Mercado-Simmen

Rozzano Locsin

Annabelle Villalobos

Florence Cua

Lulu Herold - *in honor of Mr. Moises*

Soriaga (University of San Carlos)

OTHERS

Aldwin Anterola

Jay Revilleza

Jean Tiong-Koehler

Liza Ilag-Alviar

Francis delos Reyes III

Shilachu Gomez

Francis Sy

Institutional and Industrial Sponsors

PLATINUM

Molave Trading Corp./Domestic Trading Corp.
Roche (Philippines), Inc.
De La Salle University
Dynalab Corp.
Smart Communications

GOLD

Sigmatech Inc./NASAT Inc.
Pascual Laboratories
Micro-Biological Laboratory, Inc.

SILVER

Shimadzu (Philippines) Inc.
Katrin Field Inc.

OTHER INSTITUTIONAL AND INDUSTRIAL SPONSORS

Mapua Institute of Technology
Hybridigm Consulting Inc.
Alpha Analytical (SEA), Inc.
Brain Gain Network
Ayala Land International Sales, Inc.
Romaro Chemical Traders
Hebborn Analytics
Just-in-One Marketing
Diamed Enterprises
Medical Test Systems, Inc.
Microlab

SPECIAL THANKS TO:

Commission on Higher Education