

SESSION/ Hosts	OPENING CEREMONIES Dr. Imee Martinez-Quillamor Dr. Aaron Villaraza
Time	Venue: Pacific Grand Ballroom
8:00	Opening of Exhibition and Poster Paper Session/ Introduction
9:00	<u>WELCOME REMARKS</u> Mayor Tomas Osmeña Cebu City
9:30	<u>PLENARY I</u> Dr. Enrico Paringit Executive Director, Philippine Council for Industry, Energy, and Emerging Technology Research and Development Department of Science and Technology
10:00	<u>PLENARY II</u> <i>From Chemistry to Food Security: A Journey</i> Dr. Michael Purugganan Department of Biology Center for Genomics and Systems Biology New York University
10:45	BREAK
11:15	<u>PLENARY III</u> <i>BioNanotechnology: Merging Science and Commercialization</i> Dr. M. Cynthia Goh Impact Centre University of Toronto
12:00	LUNCH (venue: Pacific Grand Ballroom) POSTER VIEWING (Authors are expected to be present) (venue: Old Duty Free Hall)

EVENTS

PLENARY AND KEYNOTE

FEATURING 9 PLENARY LECTURES AND 30 KEYNOTE LECTURES BY DISTINGUISHED FILIPINO AND FOREIGN SCIENTISTS, WITH A SPECIAL FORUM ADDRESSING THE CONFERENCE THEME ON THE LAST DAY

ORAL PAPER PRESENTATIONS

110 ORAL PAPERS BY ACADEMIC AND CORPORATE RESEARCHERS IN 15 TECHNICAL PARALLEL SESSIONS

POSTER PAPERS

200 POSTER PAPERS FROM ACROSS THE COUNTRY ON DISPLAY AT THE OLD DUTY FREE HALL FOR THE DURATION OF THE CONFERENCE

SESSION/ Chair Time:	FOOD CHEM Dr. Coke Montaña Venue: Arctic I	SYNTHETIC ORGANIC Dr. Monissa Paderes Venue: Arctic II	POLYMER Dr. David Peñaloza Venue: Pacific	ANALYTICAL/FUNCTIONAL FILM Dr. Fortunato Sevilla III Venue: Mediterranean	ENVIRONMENTAL CHEM Dr. Eric Punzalan Venue: Caribbean
1:00	<i>Keynote 1.1 Plant Growth Promoters from Oligo Carageenan</i> Dr. Lucille Abad Philippine Nuclear Research Institute, DOST	<i>Keynote 2.1 Capturing the Reactivity of Unusual Oxetanes</i> Dr. Amy Howell Dept. of Chemistry University of Connecticut, USA	<i>Keynote 3.1 Using Natural Materials to Improve Silicone Properties</i> Dr. Michael A. Brook Faculty of Science McMaster University, Hamilton CA	<i>Keynote 4.1 Molecularly Imprinted Polymer Nanomaterials as Synthetic Antibody Mimics for Biomedicine</i> Dr. Karsten Haupt CNRS Laboratory for Enzyme and Cell Engineering, Compiègne University of Technology, France	<i>Keynote 5.1 Driving the Change to Less-Toxic and More Effective Oil Spill Dispersants</i> Joanne Francia B. Solis Vance Chemicals, Singapore
1:30	<i>Oral 1.2 Postharvest Light-Induced Increase of Antioxidant Capacity of Beans: Vigna sinensis (Black Balatong), Cajanus luteus bello</i> Delfin G. Mahinay, Jr.* , Sheenah May E. Catalan, and Rucha D. Pasilan *Negros Oriental State University	<i>Oral 2.2 Synthetic Heparan Sulfate Oligosaccharides and their Interaction with Mycobacterial Heparin-Binding Hemagglutinin</i> Dr. Medel Manuel L. Zulueta Institute of Chemistry University of the Philippines, Diliman	<i>Oral 3.2 Optimization of the Property of Cross-Linked Carbazole-Based Polymer Film for Efficient Hole Transport in Bulk-Heterojunction Photovoltaic Device</i> Florentino C. Sumera* , Shienna Marie A. Pontillas, Menandro A. Marquez, Rigoberto C. Advincula *University of the Philippines, Diliman	<i>Oral 4.2 Fabrication of Banana-Cotton Blended Fabric with Multiwalled Carbon Nanotubes and Polypyrrole as Electrode Materials for Flexible Supercapacitor</i> Angelico Nichole M. Tolentino and Christina A. Binag The Graduate School, University of Santo Tomas	<i>Oral 5.2 Assessment of Microplastic Pollution in the Coastal Areas of Dumaguete City, Philippines</i> Joreen Dael , Alaiza Mari Caino, and Edwin Romano Jr. Negros Oriental State University
1:50	<i>Oral 1.3 Moisture Content and Water Activity of Commercial Philippine Virgin Coconut Oil</i> Alissandra B. Cayabyab , Candell Grace P. Quiño, Fabian M. Dayrit, and Erwin P. Enriquez Ateneo de Manila University	<i>Oral 2.3 Synthesis of 2-Arylbenzimidazoles using Silica Supported Inorganic Catalysts</i> Dr. Evelyn C. Creencia Mindanao State University- Iligan Institute of Technology	<i>Oral 3.3 Physico-Chemical Elucidation of the Formation of Polycaprolactone (PCL)-Polylactic Acid (PLA) Core-Shell Bicomponent Fibres Prepared via Coaxial Electrospinning</i> Allan Yago, Lizette Mella , Dylan Hegh, Ken Usman, M. Nuesca, M. Razal University of the Philippines, Diliman	<i>Oral 4.3 Chemiresistive Sensor for Gaseous Elemental Mercury (GEM) based on Thermally Reduced Electrophoretically Deposited Graphene Oxide</i> Carlo P. Andres , Fortunato Sevilla III The Graduate School, University of Santo Tomas	<i>Oral 5.3 Water Quality Assessments of Major Rivers in Palawan, Philippines</i> Marianne Faith G. Martinico-Perez , Perlita Quiling, Madrono Cabrestante, and Nelso Devanadera Palawan Council for Sustainable Dev
2:10	<i>Oral 1.4 Limonoids in Self-Assembled Zein-Alginate Nanocomplexes Show Improved Free Radical-Scavenging and Anti-angiogenic Activities</i> Gio Ferson M. Bautista , Evelyn B. Rodriguez, Kevin C. Salamaney, Sheryl Lozel B. Arreola, and Mark Louis P. Vidallon; Institute of Chemistry University of the Philippines, Los Baños	<i>Oral 2.4 Synthesis of Functional Grafted Materials Using Radiation Technology at PNRI</i> Jordan F. Madrid , Patrick Cabalar, Janronel Pomicpic, Girlie Lopez, and Lucille Abad Philippine Nuclear Research Institute, DOST	<i>Oral 3.4 THz Dynamics of Hydrated Phospholipid Studied by Broadband Dielectric Spectroscopy</i> Y Kadomura, AKG Tapia, and K Tominaga Kobe University, Japan	<i>Oral 4.4 An Analytical Method Validation for Atomic Absorption Spectrometry Analysis of Some Micronutrient Content of Foliar Organic Fertilizers</i> Jethro Masangkay , King Bryan Gabog, Jenise Paddayuman, Veronica Migo, Sheryl Lozel Arreola, and John Carlo Pacia Institute of Chemistry University of the Philippines, Los Baños	<i>Oral 5.4 Reconstructing Impacts and Transport Pathways of Anthropogenic Radionuclides in the Western Equatorial Pacific Ocean and West Philippine Sea Using 129I in Corals and Seawater</i> Angel T. Bautista VII , Sophia Limlingan, Jeffrey Munar, Fernando Siringan, and Hiroyuki Matsuzaki Philippine Nuclear Research Institute
2:30	<i>Oral 1.5 Validation of the Test Method for the Analysis of Total Arsenic in Rice</i> John Cyrus O. Alfaro , Rosario T. Fuertes, Ma Rachel V. Parcon, Rodney C. Salazar, Admer Rey C. Dablio, and Sarah Diane C. Ong, STD-ITDI-DOST	<i>Oral 2.5 Facile Preparation and Optimization of Carboxymethylcellulose and Chitosan Drug Encapsulant Systems</i> Anna Bernadette Agu , David Penalzoza Jr., and Roger Tan Dept. of Chemistry, De La Salle University, Taft	<i>Oral 3.5 Development Of Biocomposite Using Cellulose Acetate from Cigarette Filter and Woven Bamboo</i> Mer Amansec , Danilet Mendoza Nueva Ecija University of Science and Technology	<i>Oral 4.5 Creating Quality, Efficient, Automated Laboratories</i> Chamnong Ingsathit Labware (Thailand) Co. Ltd	<i>Oral 5.5 Assessment of Naturally Occurring Radioactive Materials (NORM) in Soil Collected in the Rice Field of Aliaga and Bongabon in Nueva Ecija</i> Arvin M. Jagonoy , Selina Gualberto, Joseph Michael Racho, Moises Garrero, and Raymond Suggang Philippine Nuclear Research Institute
2:50	COFFEE BREAK POSTER VIEWING (venue: Old Duty Free Hall)				

SESSION/ Chair Time	FOOD CHEMISTRY Dr. Coke Montano Venue: Arctic I	FORENSIC Dr. Emily Castriciones Venue: Arctic II	POLYMER Dr. David Peñaloza Venue: Pacific	ANALYTICAL/SENSING Dr. Fortunato Sevilla III Venue: Mediterranean	ENVIRONMENTAL CHEM Dr. Eric Punzalan Venue: Caribbean
3:20	<i>Keynote 1.6 I Phil Response to Issues Raised by NOSB to Delist Carageenan from Organic List</i> Dr. Frank Heralde Biochemistry Department College of Medicine University of the Philippines, Manila	<i>Keynote 2.6 The Chain-of-Custody and Evidence Management as Key Components of Laboratory Quality Management Systems</i> Dr. Marc-Michael Blum Head of Laboratory Organisation for the Prohibition of Chemical Weapons	<i>Keynote 3.6 Impact of the Solid Interface on Proton Conductivity in Thin Nafion Films</i> Prof. Keiji Tanaka Kyushu University, Japan	<i>Keynote 4.6 Challenges and Opportunities in the Use of Molecularly Imprinted Polymers-Based Sensors for the Detection of Dengue NS1 Protein</i> Dr. Gerry Nuesca , P.M.G. Sabido, C.Buensuceso, J.K. Garcia, L.K.Z. Lorenzo, C.A. Ysulat, M. Zulueta, R. Abisado, R.C. Advincula, L.P. Lee, F.R. Del Mundo University of the Philippines, Diliman	<i>Keynote 5.6 Management of Lamp Wastes (Hg) in the Clark Freeport Zone: The CDC Experience</i> Mayflor N. Ramos-Candelaria Clark Development Corporation Pampanga
3:50	<i>Oral 1.7 Antioxidant Activity Evaluation of Fractionated β-Casein Variants from Siquijor Native Cattle (<i>Bos taurus indicus</i> L.) and Holstein Friesian X Sahiwal Milk</i> Gabrielle Troy A. Cuevas , Florinia E. Merca, Amado A. Angeles, and Agapita J. Salces University of the Philippines, Miag-ao	<i>Oral 2.7 Forensic Profiling of Methamphetamine Drug Seized from Selected Clandestine Laboratories, Warehouses, and Significant Smuggling Incidents in the Philippines</i> Jasmyne Lora Jaranilla and Severino Uy Jr. Special Research Division, PDEA	<i>Oral 3.7 Antibacterial Fiber from Polymer Coated Copper Oxide Composites via Green Synthesis from Pakak (<i>Artocarpus altilis</i>)</i> Blanca Marie Hermano , Ivy Buan, and King Dave Martin Nueva Ecija University of Science and Technology	<i>Oral 4.7 Chemical Fractionation of Trace Heavy Metals in the Rhizosphere of the Umbrella Plant (<i>Cyperus alternifolius</i> L.)</i> Jan Rommel Duterte , Leonila Adarna, and Josephine Castañares Dept. of Chemistry, University of San Carlos	<i>Oral 5.7 Screening for Radionuclide Contamination from the Fukushima Accident by Iodine-129 Measurement in Corals from Baler</i> Sophia Jobien M. Limlingan , and Angel Bautista Phil Nuclear Research Institute
4:10	<i>Oral 1.8 Extraction of Proteins from Egg White, Milk, Pig's Blood, and Wheat Flour for Making Protein Markers for SDS-PAGE</i> Kennethjer G. Alejo , Mariam C. Recuenco Institute of Chemistry University of the Philippines, Los Baños	<i>Oral 2.8 New Psychoactive Substances (NPS) Situation in the Philippines: An Emerging Challenge on Drugs of Abuse</i> Ronald Jefferson A. Narceda Special Research Division, PDEA	<i>Oral 3.8 Biocomposite Based on Cellulose Acetate from Coconut Husk and Rice Starch from Rice Bran</i> Michael Angelo Rivera and Irish De Leon Nueva Ecija University of Science and Technology	<i>Oral 4.8 Fabrication of a Low-Cost Flame Emission Spectrophotometer</i> Christian Jay Cambiador and Armando Victor Guidote Dept. of Chemistry Ateneo de Manila University, Loyola	<i>Oral 5.8 Survey of Nitrogen-Fixing Rhizobacteria in Irrigated Rice Ecosystem in Central Luzon Based on PCR-Based Amplification of <i>nifH</i> gene</i> Mac Michael M. Rubio , Truong Hoai Xuan and Arlen A. Dela Cruz Philippine Rice Research Institute, Maligaya, Science City of Muñoz, Nueva Ecija 3119
4:30	<i>Oral 1.9 Insecticidal Activity of Calamansi (<i>Citrofortunella microcarpa</i>) Peels Essential Oil Against Rice Weevils (<i>Sitophilus oryzae</i> L.)</i> Darwin F. Reyes, Daine Lane G. Corpuz Nueva Ecija University of Science and Technology	<i>Oral 2.9 A Pilot Study on Existing Local Plant-Based New Psychoactive Substance (NPS)</i> Reynalyn Barbacena and Yvette Dasamito Laboratory Service, Special Research Division Performance of Screening Drug Testing Laboratories, PDEA	<i>Oral 3.9 Comparative Surface Characterization of Bare Zinc Oxide Versus Poly(acrylic acid)-encapsulated Zinc Oxide Nanoparticles Synthesized Through Sol-Gel Technique</i> Enrico D. Legaspi , and Leon M. Payawan Jr. Institute of Chemistry University of the Philippines, Diliman	<i>Oral 4.9 Temperature-Dependent Broadband Dielectric Response of Hydrated Casein</i> Lou Serafin Lozada , Dustin Almanza, Alvin Tapia, Mariam Recuenco, and Keisuke Tominaga Molecular Photoscience Research Center, Kobe University, Japan	<i>Oral 5.9 Heavy Metal Toxicity Evaluation of Fishes in Tañon Strait, Toledo City, Cebu</i> Jarold John C. Leyson , Lora Mae Villegas, Lemuel Veloso, Hemres Alburo, and Rosalyn Alburo Dept of Chemistry University of San Carlos
4:50	<i>Oral 1.10 TD-NMR and microESR Solutions for Food Science</i> Chollirosn Sutapin BRUKER	<i>Oral 2.10 Nationwide in the Annual Proficiency Testing Scheme</i> Augusto Misolas , Laura Magat, Sheila Acebedo, Marie Rellona, Nenita Marayag, and Jennifer Mercado National Reference Laboratory for Environmental and Occupational Health, Toxicology and Micronutrient Assay	<i>Oral 3.10 Rheological characterization of the Curing Process of a Water-Based Epoxy Material</i> Maria Myrelle S. Quiambao Chemrez Technologies, Inc.	<i>Oral 4.10 LC-MS/ UHPLC-MS / ICP-MS Solvent: The Right Purity for an Excellent Result</i> Mr. Marc Farre Scharlab Philippines Inc.	<i>Oral 5.10 Laccase Activity of Phenol-Contaminated Sediments in Meycauayan River</i> King Dave G. Martin , Laurence Mallari, Maria Fatima Astrero, and Roland Hipol Nueva Ecija University of Science and Technology
5:10	POSTER SESSION VIEWING (<i>Authors are requested to be present</i>) venue: Old Duty Free Hall			ICP Business Meeting (venue: Caribbean)	
6:30	BANQUET (venue: Pacific Grand Ballroom) PFCS Awards, Musical Numbers, and Recognition of Plenary and Keynote Speakers				

SESSION/ Chair Time	SURFACE CHEMISTRY Dr. Imee Martinez-Quillamor Venue: Caribbean	PHOTOCHEMISTRY OF MATERIALS Dr. Marlon Conato Venue: Pacific
9:00	<p><u>PLENARY IV-A</u> <i>Magnetic Particle Imaging: Tracer Development and Emerging Application</i> Dr. Anna Samia Assoc. Professor, Case Western Reserve University</p>	<p><u>PLENARY IV-B</u> <i>Exploratory Synthesis in the Solid State: Endless Wonders in the Periodic Table</i> Dr. Arnold M. Guloy Professor of Chemistry, University of Houston</p>
9:45	<p><u>PLENARY V-A</u> <i>Conformation of Complex Structured Molecules at Interfaces as Revealed by Sum Frequency Generation Vibrational Spectroscopy</i> Dr. Katherine Cimatú Assoc. Professor, Ohio University</p>	<p><u>PLENARY V-B</u> <i>Photosensitizers and Nanomaterials: Recent Advances and Challenges</i> Dr. Matthias Selke Professor of Chemistry, California State University, Los Angeles</p>
10:30	<p>BREAK POSTER VIEWING (venue: Old Duty Free Hall)</p>	
11:00	<p><u>PLENARY VI-A</u> <i>Tackling Microbial Biofilms One Molecule and One Cell at a Time...</i> Dr. Ruby Sullan Asst. Professor, University of Toronto</p>	<p><u>PLENARY VI-B</u> <i>Designing Excitonic Nanostructures for Solar Energy Conversion</i> Dr. Clemens Burda Professor of Chemistry, Case Western Reserve University</p>
11:45	<p>PRESENTATION OF WINNERS: 2019 NATIONAL ON THE SPOT POSTER MAKING CONTEST; 2019 PHILIPPINE NATIONAL CHEMISTRY OLYMPIAD</p>	
12:00	<p>LUNCH (venue: Pacific Grand Ballroom) POSTER VIEWING (<i>Authors are expected to be present</i>) (venue: Old Duty Free Hall)</p>	

EVENTS

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SESSION/ Chair Time	NANOSCIENCE Dr. Mila Peralta	COMPUTATIONAL PHYCHEM Dr. Ricky Nellas	#NAGBALIK-CHEMISTRY Dr. Eiza Yu	ANALYTICAL/INSTRUMENTATION Dr. Allan Yago	INDUSTRY/ENVI CHEM Dr. Gilbert Yu
	Venue: Arctic I	Venue: Arctic II	Venue: Pacific	Venue: Mediterranean	Venue: Caribbean
1:00	<i>Keynote 6.1 Understanding Nanocomposites from Bottom Up Synthesis</i> Dr. Thomas Seery Institute of Materials Science and Department of Chemistry University of Connecticut, USA	<i>Keynote 7.1 Protein Dynamics and Enzyme Function</i> Dr. Sunney Chan Academia Sinica, Taipei, Taiwan	<i>Keynote 8.1 BSP: Catalyst in Accelerating Natural Products Discovery and Human Capital Development in Western Visayas</i> Dr. Jonel Saludes Department of Chemistry University of San Agustin Iloilo City	<i>Keynote 9.1 From Paste Electrodes to Screen-Printed Electrodes - Modifications of Carbon Nanotube-Polydimethylsiloxane Composite System to Form Various Electrode Platforms for Target Applications</i> Dr. Allan Yago Institute of Chemistry, University of the Philippines, Diliman	<i>Keynote 10.1 Product Development: From Design to Implementation</i> Dr. Mary Jane Felipe Baker Hughes, GE Company, USA
1:30	<i>Oral 6.2 Synthesis of Copper-Manganese Nanoparticles for Methanol Steam Reforming</i> Yasmin D.G. Edañol , Roland L. Barbosa, Salvador C. Buenviaje Jr., and Leon M. Payawan Jr. Institute of Chemistry University of the Philippines, Diliman	<i>Oral 7.2 Mechanistic Study of Selective Hydroxylation of Dideuterated Butanes Catalyzed by Cytochrome P450 BM3 Variants</i> Dr. Steve Sheng-Fa Yu Institute of Chemistry, Academia Sinica, Taipei, Taiwan	<i>Oral 8.2 Analysis of Human Milk Oligosaccharides (HMOs) in Filipino Breast Milk</i> Dr. Gladys Cherisse J. Completo Institute of Chemistry University of the Philippines, Los Baños	<i>Oral 9.2 Development of Methods for the Remediation of Various Selected Chemical Wastes of the Institute of Chemistry with Sustainable Byproducts within the University of the Philippines, Los Baños</i> Kevinilo P. Marquez, Melvin A. Castrosanto, Naela V. Delmo, Rochelle P. Ibabao, Jethro T. Masangkay, and King Bryan C. Gabog University of the Philippines, Los Baños	<i>Oral 10.2 Pushing the Limits of ICP-MS: How Collaborative Research and Development in Laser Ablation and Micro-Volume Autosamplers are Driving Innovation for Geology and Life Science Application</i> Wayne Mozer , D. Green, and P. Winship Teledyne Leeman Labs, Sigmatech Corp
1:50	<i>Oral 6.3 Insecticidal Activities of Fermented Neem (Azadirachta indica) Leaves - Metal Nanoparticles against Bactrocera dorsalis (Hendel)</i> Danila S. Paragas , Kathlia DC. Cruz, and Elaida R. Fiegalan Dept. of Chemistry Central Luzon State University	<i>Oral 7.3 The Importance of Individual Helical Structures to the Overall Activity and Structural Stability of a Lipase from P. aeruginosa PAO1</i> Meg Jaidriel Cabanding Institute of Chemistry, Academia Sinica, Taipei, Taiwan	<i>Oral 8.3 Design, Synthesis, and Bioassays of 3-Substituted-3-Hydroxyoxindoles for Cholinesterase Inhibition</i> Dr. Amor San Juan Chemistry Dept. Central Luzon State University	<i>Oral 9.3 MALDI-TOF Imaging Mass Spectrometry Visualizes the Tissue Spatial Localization of Bioactive Natural Products in Pineapple</i> Angelica Faith L. Suarez , Angel Ann Juanillo, Joey I. Orajay, Dave Clark D. Sison, Yu-Liang Yang, Doralyn S. Dalisay, and Jonel P. Saludes University of San Agustin	<i>Oral 10.3 Direct Seawater Analysis for Trace Elements by High Resolution-Inductively Coupled Plasma- Optical Emission Spectrophotometry</i> Melvin L. Canoy Applications Chemist Atomic and Molecular Spectroscopy Analytical and Synthetic Chemistry Brownstone Asia-Tech Inc.
2:10	<i>Oral 6.4 Applications of Nypa fruticans Filled with Zinc Oxide Nanoparticles</i> Karina Cui-Lim , Flyndon Dagalea, Janet Agresor, Stephanie Pamintuan College of Science University of Eastern Philippines	<i>Oral 7.4 Probing the Allosteric Coupling in Proteins by Determining the Essential Dynamics and Residue-Residue Associations</i> Kevin Braza Institute of Chemistry University of the Philippines, Diliman	<i>Oral 8.4 eIF5A Hypusination Regulates Translation of Mitochondrial Proteins</i> Dr. Hilbert D. Magpantay Dept. of Chemistry De La Salle University, Manila	<i>Oral 9.4 Intuitive GCMS Solutions for the Laboratory</i> Fe Suasin Shimadzu Asia Pacific	<i>Oral 10.4 Suspension Stability of Metal Oxides Aged by Low Molecular Weight Organic Acids</i> Dana Lightha D.T. Babela , and Rheo B. Lamorena-Lim Institute of Chemistry University of the Philippines, Diliman
2:30	<i>Oral 6.5 Synthesis of Gold Nanoparticle and its Application in Biosensor for Dengue Detection</i> Flora M. Yrad , Josephine M. Castañares, and Evangelyn C. Alocilja Dept. of Chemistry Silliman University, Dumaguete City	<i>Oral 7.5 On the Mechanism of Activation of Isoniazid in Mycobacterium tuberculosis: What We Know So Far</i> Yves Ira A. Reyes and Francisco C. Franco, Jr. Department of Chemistry De La Salle University, Manila	<i>Oral 8.5 Ionic Liquids for Carbon Capture</i> Dr. Imee Su Martinez Institute of Chemistry University of the Philippines, Diliman	<i>Oral 9.5 Method Validation for Water Content Determination Using Karl Fischer Coulometer with Oven Transfer</i> Pauline Ann Quiton , Abigail Grace Bion, Ma. Rosnah Galo, Alleni Tongson, and Benilda Ebarvia Industrial Technology Development Institute, DOST	<i>Oral 10.5 Trace Metal Characterization of Particulate Matter 10 (PM10) from Cebu Business Park, Cebu City, Philippines</i> Shaira L. Gabrillo University of San Carlos
2:50	BREAK POSTER VIEWING (venue: Old Duty Free)				

SESSION/ Chair Time:	NANOSCIENCE Dr. Mila Peralta	COMPUTATIONAL CHEM Dr. Ricky Nellas	#NAGBALIK-CHEMISTRY Dr. Eiza Yu	ANALYTICAL/INSTRUMENTATION Dr. Allan Yago	INDUSTRY RESEARCH/ENVI CHEM Dr. Gilbert Yu
3:20	Venue: Arctic I <i>Keynote 6.6 Cellulose Micro and Nanoparticles as Drug Sequestant</i> Soma Chakraborty , Adrienne Nicole Bartolome, and Dominic C. Flores Department of Chemistry Ateneo de Manila University	Venue: Arctic II <i>Keynote 7.6 Ab-Initio Anharmonic Algorithms and Their Applications to Understand Vibrational Coupling</i> Dr. Jer-Lai Kuo Institute of Atomic and Molecular Science, Academia Sinica	Venue: Pacific <i>Keynote 8.6 Composition-Tunable Nanocrystals of Multinary Sulfide Semiconductors</i> Dr. Michelle Regulacio STRIDE, USAID	Venue: Mediterranean <i>Keynote 9.6 Development and Application of Time-Resolved X-ray Crystallography and Spectroscopy for Micro-Crystal of Proteins</i> Tetsunari Kimura , Sae Hayashi, Misato Shimonaka, Chihiro Otsuka, and Motonari Tsubaki Kobe University & K-CONNEX	Venue: Caribbean <i>Keynote 10.6 New Trends in the Industrial Applications of X-ray Photoelectron Spectroscopy</i> Dr. Roland Barbosa Scientist EAG Laboratories Eurofins Materials Science DOST/BSP Awardee 201
3:50	<i>Oral 6.7 Green Synthesis of Silver Nanoparticles Using Antidesma bunius Aqueous Leaf Extracts and its Cytotoxicity in Human-Derived Colorectal Cancer Cell Line</i> Jan Vincent Go , Alexandria Marie Roque, Glenn Oyong, and Rodolfo Sumayao, Jr Dept. of Chemistry De La Salle University	<i>Oral 7.7 Machine Learning for Electron-Transfer Couplings</i> Dr. Chao-Ping Hsu Institute of Chemistry, Academia Sinica	<i>Oral 8.7 Properties of Eu²⁺Cryptates and their Implications to the Development of Contrast Agents for Magnetic Resonance Imaging</i> Dr. Joel Garcia Dept. of Chemistry De La Salle University, Manila	<i>Oral 9.7 Increase Productivity with Right Moisture Content</i> Leo Reyes Mettler-Toledo	<i>Oral 10.7 Profiling of Marine Actinobacteria from Islas de Gigantes, Iloilo Using Metabolomics Strategies</i> Sarah Diane C. Ong , Hannah C. Valencia, Angelica Faith L. Suarez, Edna M. Sabido, Jasmine C. Velo, Mary Abigail Quiachon, Dianne Frances Penuela, Doralyn S. Dalisay, and Jonel P. Saludes University of San Agustin
4:10	<i>Oral 6.8 Cyclic Voltammetry of DNA Aptamer-Gold Nanoparticle-Modified Screen-Printed Electrode in Various Ionic Solution</i> Jiena Lynne R. Pauco and Erwin P. Enriquez Dept of Chemistry Ateneo de Manila University, Loyola Hts, Q.C.	<i>Oral 7.8 Ab Initio Study on the Vibrational Structure of Proton-Bound Dimer</i> Dr. Jake Tan Institute of Atomic and Molecular Science, Academia Sinica	<i>Oral 8.8</i> Dr. Isagani Padolina PASCUAL PHARMA Laboratories	<i>Oral 9.8 Orion Star T900 Series Titrator Instrument Elements and Summary of Core Methods</i> James Tan Regional Product Manager SEA & TW Water and Laboratory Products Yana Commodities Inc.	<i>Oral 10.8 Optimization of Various Lignin Extraction Methods of Selected Plant Biomass Wastes for Heavy Metal Adsorption Applications</i> Bhea Camille M. Ramirez , Rufus Mart Caesar R. Ramos, Janelle Allyza P. Conti, Kristina Carla R. Lopez, and Kevinilo P. Marquez Institute of Chemistry University of the Philippines, Los Baños
4:30	<i>Oral 6.9 ZnO/Cr₂O₃ Nano-Composite as Photocatalytic Paint for the Removal of NO_x Gas</i> Roderica Vallagar, Danilet Vi Mendoza , and June Alexis Santos Nueva Ecija University of Science and Technology	<i>Oral 7.9 Investigating Multi-Component Nucleation Through MC and MD</i> Roosevelt Tabag Jr. Institute of Chemistry University of the Philippines, Diliman	<i>Oral 8.9 Energy Transfer Dynamics within Molecular Dynamics: Putting the Pieces Together</i> Dr. Gil Claudio Institute of Chemistry University of the Philippines, Diliman	<i>Oral 9.9 Standard Test Method for Reflectance Factor and Color by Spectrophotometry Using Bidirectional (45°:0° or 0°:45°) Geometry – ASTM E1349</i> Dr. Leo Cheung Hunterlab of Reston Virginia USA MahaChem, Inc	<i>Oral 10.9 The Advantages of ICP-MS and Its Applications</i> Chow Mee Ling Molave Trading Incu s
4:50	<i>Oral 6.10 Characterizing the Zeta Potential of Nanomaterials</i> Andressa San Gabriel DKSH Philippines, Inc	<i>Oral 7.10 Probing the Interaction of Isoquercitin with Human Serum Albumin: A Combined Multispectroscopic, Cyclic Voltammetric and Molecular Docking Approach</i> Ren Vien Anthony A. Fernandez MSU-IIT	<i>Oral 8.10 Synthesis of 3-O-Sulfonated Heparan Sulfate Tetrasaccharides</i> Lico, Larry S. *,† Arco, Susan D.,*, and Hung, Shang-Cheng† *Institute of Chemistry University of the Philippines, Diliman †Genomics Research Center, Academia Sinica, Taipei City, Taiwan	<i>Oral 9.10 How Ultra-Pure Water Dissolves your Problems Into Solutions?</i> Tang Eng Cuang Sartorius Lab Products and Services LABTRADERS, INC	<i>Oral 10.10 A comparative study of Argentometric Titration and Quenching of Quinine Fluorescence by Chloride Ions using Spectrofluorometry in Freshwaters</i> Angel Mhae T. Lingaya, Perlita S. Torres, Marte C. Villena, and Rheo Lamorena-Lim Institute of Chemistry, University of the Philippines, Diliman
5:10	POSTER SESSION VIEWING (Authors are requested to be present) venue: Old Duty Free Hall			KKP General Membership Meeting (venue: Caribbean)	

SESSION/ Chair Time	INORGANIC Dr. Danilo Ortillo Venue: Arctic I	MEDICINAL CHEM Dr. Aaron Villaraza Venue: Arctic II	CHEM EDUC Dr. Armando Guidote Venue: Pacific	ANALYTICAL Labs Dr. Lilibeth Coo Venue: Mediterranean	NATURAL PRODUCTS Dr. Hiyas Junio Venue: Caribbean
8:30	<i>Keynote 11.1 Transition Metal Complexes in Rotaxanes and Polymers</i> Prof. Kohtaro Osakada Laboratory for Chemistry and Life Science, Tokyo Institute of Technology	<i>Keynote 12.1 Immuno-epidemiology and Vaccine Development for Schistosomiasis japonica</i> Dr. Mario Jiz II Research Institute for Tropical Medicine	<i>Keynote 13.1 Eye Tracking Student Strategies in Solving Conceptual Stoichiometry Problems</i> Dr. John Y. Baluyut and Thomas A. Holmes University of Providence	<i>Keynote 14.1 Advancement In Nutrient Diagnostics</i> Dr. Charina De Silva MetaMetrics Laboratory, MetaDiagnostics, Inc., Pasig City	<i>Keynote 15.1 Mining for 'Blue Gold': Approaches to Address the Supply Issue in Marine Natural Products</i> Dr. Lilibeth Salvador-Reyes Marine Science Institute University of the Philippines, Diliman
9:00	<i>Oral 11.2 Adsorption of Saccharide Molecules on Hydroxalcite-Derived Material</i> Timothy Gemuel Talusan , Leon M. Payawan Jr., Raju S. Kumar, Wei-Chian Fang, and Cedric Po-Wen Chung Institute of Chemistry University of the Philippines, Diliman	<i>Oral 12.2 Elucidation of Molecular Functions of Human Tumor Suppressor Protein 101F6 by Reconstitution into Phospholipid Bilayer Nanodiscs</i> Prof. Tsubaki Motonari Kobe University, Graduate School of Science, Department of Chemistry	<i>Oral 13.2 Students At-risk Behavior and Safety Culture in Basic Chemistry Laboratory</i> Dr. Rose Marie O. Mendoza Far Eastern University- Nicanor Reyes Memorial Foundation	<i>Oral 14.2 Improvement in Laboratory Performance of Some Philippine Food Testing Laboratories through Proficiency Testing Rounds on Corn-based Snack Food</i> Leah C. Dajay Food and Nutrition Research Institute	<i>Oral 15.2 Screening and Partial Purification of Identified Methanolic Extracts of some Pigmented Rice Varieties which Exhibited Cytotoxic Effects Against Artemia salina (brine shrimp)</i> Deborah S. Nicdao , Rodel Bulatao, Zared Patricia de Padua, Noel S. Quiming, and Marilou G. Nicolas University of the Philippines, Manila
9:20	<i>Oral 11.3 Graphene Oxide/Zelite as Bi-functional Heterogeneous as Catalyst in Biodiesel Production for Esterification and Transesterification of Used Cooking Oil</i> Darwin F. Reyes and Eravhi A. Panahon Nueva Ecija University of Science and Technology	<i>Oral 12.3 An Investigation on the Neuroactivity of Nobilamide B</i> Oliver John V. Belleza Institute of Chemistry University of the Philippines, Diliman Q.C	<i>Oral 13.3 Motivational Framework and Performance in Chemistry of Grade 12 STEM Students in Occidental Mindoro State College</i> Luningning M. Mendoza Occidental Mindoro State College - Sablayan Campus	<i>Oral 14.3 Production and Assessment of Homogeneity and Stability of Sulfite in Desiccated Coconut Candidate Proficiency Test Material</i> Angelo Bryan R. Lazo DOST-ITDI	<i>Oral 15.3 Barnyard Grass [Echinochloa crus-galli (L.) Beauv] Leaves as a Source of Natural Herbicide</i> Melvin A. Castrosanto , Michael Russelle Alvarez, Kimberly Delica, Kevin C. Salamanez, and Gladys J. Completo, Ph.D. Institute of Chemistry University of the Philippines, Los Baños
9:40	<i>Oral 11.4 Bis(L-histidinato)nickel(II) monohydrate: Synthesis, Crystal Structure Analysis, and Application in the Catalysis of Multicomponent Biginelli Reaction</i> Christian Paul L. Ramos and Marlon T. Conato Institute of Chemistry University of the Philippines, Diliman	<i>Oral 12.4 Association of SIPA1 and RRP1B Single Nucleotide Polymorphisms with Breast Cancer Incidence in a Filipino Population</i> Kent Caesar C. Gervacio University of Santo Tomas	<i>Oral 13.4 Game-Based Learning and Its Impact on the Academic Performance of Grade 7 Students in Chemistry</i> Mark Angelo A. Ordonio , Armando Victor M. Guidote Jr, and Rhodora F. Nicdao Ateneo de Manila University	<i>Oral 14.4 Provision of Proficiency Testing Scheme for Benzoic Acid in Banana Ketchup</i> April Rose C. Veranga DOST-ITDI	<i>Oral 15.4 Chemical Constituents of Scleroderma Citrinum</i> Elvira G. Bolinget , Consolacion Y. Ragasa, and Shen Chien-Chang Benguet State University
10:00	BREAK POSTER VIEWING (Authors are expected to be present) (venue: Old Duty Free Hall)				

EVENTS

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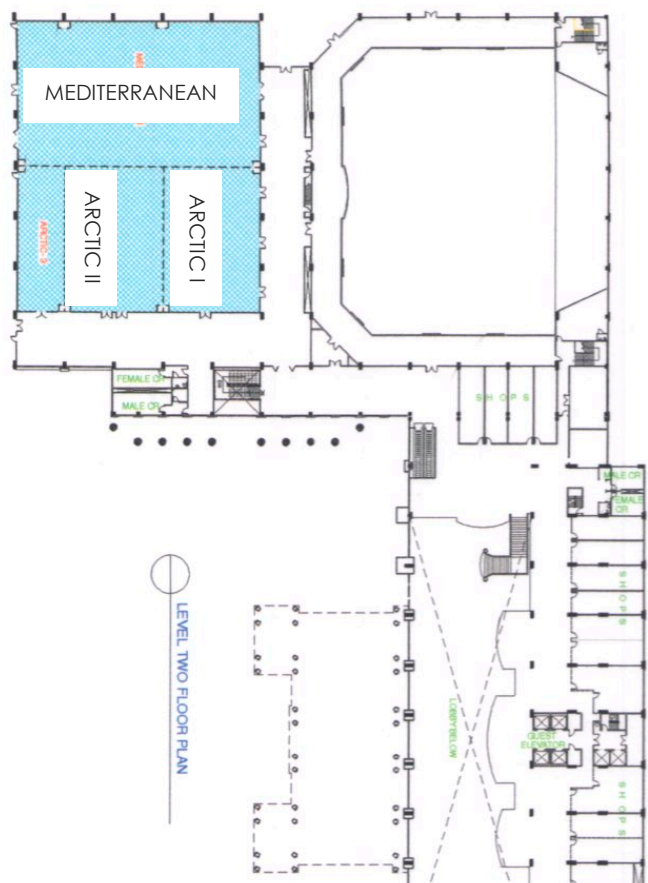
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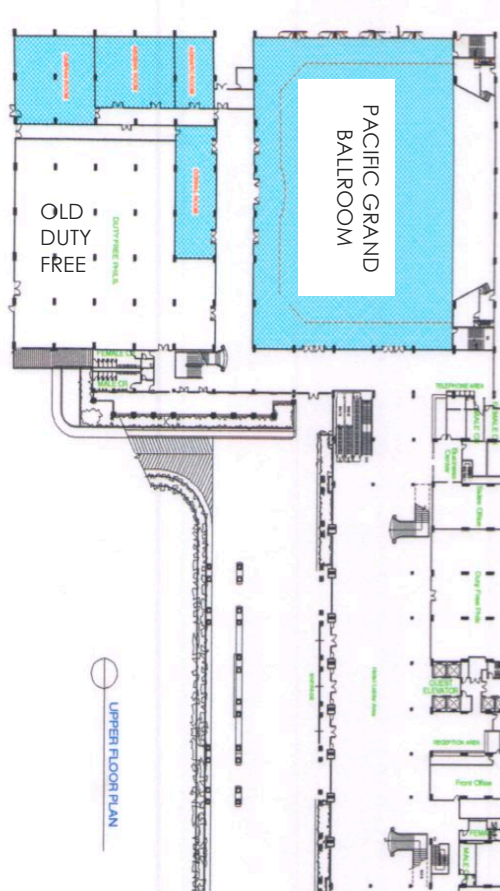
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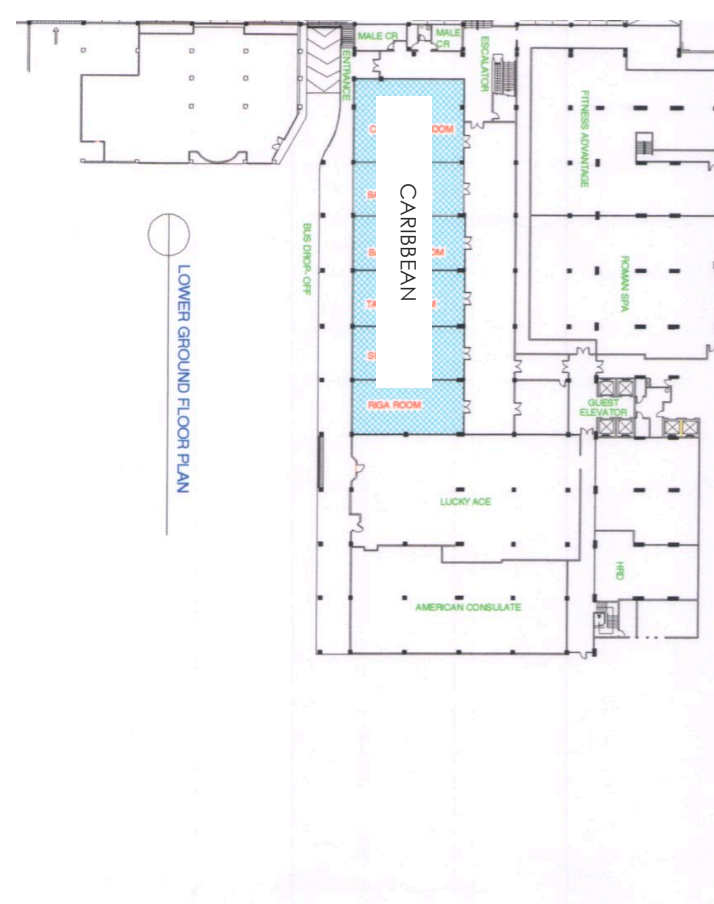
SESSION/ Chair Time	INORGANIC CHEM Session Chair: Dr. Danilo Ortillo	MEDICINAL CHEM Dr. Aaron Villaraza	CHEM EDUC Dr. Armando Guidote	ANALYTICAL Labs Dr. Lilibeth Coo	NATURAL PRODUCTS CHEMISTRY Dr. Hiyas Junio
	Venue: Arctic I	Venue: Arctic II	Venue: Pacific	Venue: Mediterranean	Venue: Caribbean
10:30	Keynote 11.6 Solid State Synthesis and Chemical Editing of Isostructural Sr_{1-x}Bax[Mg₂Al₂N₄];Eu²⁺ (x = 0-1) Towards Red to Deep Red Emission Dr. Julius L. Leaño Jr. , Carl Osby Mariano, Sebastian Mahlik, Hwo-Shuenn Sheu, Shu-Fen Hu, and Ru-Shi Liu Philippine Textile Research Institute	Keynote 12.6 Mind the Gap: Updates in the Philippine Drug Discovery and Development Pipeline of Marine Snail Venoms Dr. Aaron Villaraza Antonio De Leon Research Award Institute of Chemistry University of the Philippines, Diliman	Keynote 13.6 Rural Initiative for Science Education - Sustainably Advancing Science Education in Developing Countries Dr. Mayrose Salvador Pueblo Science, Canada	Keynote 14.6 Decision Rules for Control Charts for Multiparameter Tests Dr. Edgar F. Paski Analytical Innovations, North Vancouver BC Canada	Oral 15.6 Method Development for the Metabolites Profiling of Crescentia cujete (Miracle fruit) Juice Kidel Fae B. Rellin , and Hiyas A. Junio University of the Philippines, Diliman
11:00	Oral 11.7 Quenching of Singlet Oxygen by Cadmium-Sulfur Quantum Dots and Clusters Arman C. Garcia , David A. Cagan, and Matthias Selke; California State University of Los Angeles	Oral 12.7 Chemical Profile and Antibiotic Property of Philippine Marine Sediment-derived Actinobacteria Hannah C. Valencia , Mary Abigail P. Quiachon, Edna M. Sabido, Jasmine C. Velo, Dianne Frances A. Penuela, Angelica Faith L. Suarez, Doralyn S. Dalisay, and Jonel P. Saludes University of San Agustin	Oral 13.7 Globally Harmonized System (GHS) of Classification and Labelling of Chemicals - Regulation on Safety Data Sheet Preparation Teresita B. Corpuz TERECOR Environmental Health and Safety Consultancy Services LISAM Systems	Oral 14.7 Assessment of Fitness-for-Purpose of Iron Determination in Drinking Water via Atomic Absorption Spectrometry for Proficiency Testing Studies Theresa F. Aviles , Jan-Ervin C. Guerrero, Christy S. Daniel, Elyson Keith P. Encarnacion, and Benilda S. Ebarvia Industrial Technology Development Institute, DOST	Oral 15.7 Purification and Characterization of Lung Cancer Cytotoxic Compounds from Annona muricata, Mangifera indica, and Lansium parasiticum Extracts Kimberly M. Delica , Michael Russelle S. Alvarez, Patrick Gabriel G. Moreno, Rowell P. Abogado, Manolo R. Basingan Jr, and Froila Marie G. Deniega University of the Philippines, Los Baños
11:20	Oral 11.8 Synthesis of Metal Nanoclusters Stabilized by Fullerene and their Catalytic Activity for Hydrogenation Mark Christian E. Cabello , Nozomi Sato, Yuta Uetake, Ken Kokubo, and Hidehiro Sakurai Division of Applied Chemistry, Graduate School of Engineering, Osaka University, Japan	Oral 12.8 Amplification of Octopamine Receptor from Rhyzopertha dominica Lyssa B. Lao and Eizadora T. Yu Institute of Chemistry University of the Philippines, Diliman	Oral 13.8 Indicators of Asian Achievement in Chemistry: Implications to the Philippine Setting Joje Mar P. Sanchez Cebu Normal University	Oral 14.8 Radiometric Characterization of Fertilizers Available in Selected Areas in Nueva Ecija Arvin M. Jagonoy , Moises Jerome M. Garrero, Joseph Michael D. Racho, Selina Rabin S. Gualberto, and Raymond J. Sugcang Phil Nuclear Research Institute, DOST	Oral 15.8 Untargeted Metabolite Profiling of <i>Astonia scholaris</i> (Linn.) R. Br. and <i>Tabernaemontana pandacaqui</i> Poir. crude extract through Data Dependent MS/MS Acquisition, and Molecular Networking Ralph John Emerson J. Molino , Hiyas Junio Institute of Chemistry University of the Philippines, Diliman
11:40	Oral 11.9 Optimization of Parameters for the Fluorescence Spectroscopic Studies and Cyclic Voltammetry Measurements of the Formation of Fe-Humic Acid Complexes Danilo O. Ortillo , Chemille Rose E. Siva, Ruther Mae B. Lozanes, Gian Carlo B. Arcenal, and Coleen M. Bautista University of the Philippines, Miag-ao	Oral 12.9 MTHFR 677C>T and MTR 2756A>G Single Nucleotide Polymorphisms and the Risk of Breast Cancer Incidence in USTH-BCI Abigail Ruth F. Velasquez (Colloquium Seminar) The Graduate School, University of Santo Tomas	Oral 13.9 Plant Dyes as Indicators in Acid-Base Titrations: A Green Chemistry Alternative Giovani P. Mercado Adventist University of the Philippine	Oral 14.9 Comparative Study of External Standard Calibration vs. Standard Addition Method in the Determination of Ca in Drinking Water by ICP-OES Clarissa J. Gatchalian , Christian D. Laurio, Elyson Keith P. Encarnacion, and Belinda S. Ebarvia Industrial Technology Development Institute, DOST	Oral 15.9 Fingerprinting Analysis of Plant Extracts Using TLC with Image Processing, LC-MS/MS Metabolomics and NMR Analysis Michael Russelle S. Alvarez , Manolo Basingan Jr, Froila Marie G. Deniega, Patrick Gabriel G. Moreno, Rowell P. Abogado, and Kimberly M. Delica University of the Philippines, Los Baños
12:00	LUNCH				
1:00	OPEN FORUM: Kimiko Para Sa Sariling Bayan (Amando Clemente Memorial Lecture) Dr. Jim Josephus G. Minglana , DFA				
2:00- 3:00	CLOSING				
	Dr. Leon M. Payawan Jr. , Chair. NOC/34 th PCC President, Kapisanang Kimika ng Pilipinas		Dr. Glenn Alea , Chair, NOC/35 th PCC President, Philippine Federation Chemistry Societies		



SECOND LEVEL:
ARCTIC I, ARCTIC II, MEDITERRANEAN



UPPER GROUND FLOOR:
PACIFIC GRAND BALLROOM,
OLD DUTY FREE (Poster Session)



LOWER GROUND FLOOR:
CARIBBEAN