



ASIASense 2018

The 8th International Conference on Sensors

Manila, Philippines • 21-23 February 2018

PROGRAM OF ACTIVITIES (OVERVIEW)

	21 February 2018	22 February 2018	23 February 2018
Morning	Registration Opening Ceremony Plenary Session	Plenary Session Parallel Sessions 2	Parallel Sessions 4 Plenary Session Closing Ceremony
Afternoon	Plenary Session Parallel Sessions 1 Poster Session 1	Plenary Session Parallel Sessions 3 Poster Session 2	
Evening		Cocktails	

PROGRAM OF ACTIVITIES
(Detailed)

21 February 2018 (Wednesday)

8:00-9:30	Registration
Plenary Session	
9:30-10:15	<p style="text-align: center;">OPENING CEREMONIES <i>Venue: TARC Auditorium</i></p> <p>Invocation Philippine National Anthem Opening address: Prof. Fortunato B. Sevilla III <i>Chair, Organizing Committee</i></p> <p>Welcome address: Rev. Fr. Jesus M. Miranda, Jr., O.P., Ph.D. <i>Secretary General, University of Santo Tomas</i></p> <p>Keynote Talk: Honorable Secretary Fortunato T. de la Peña <i>Secretary, Department of Science and Technology</i></p> <p style="text-align: right;"><i>Master of Ceremonies: Prof. Christina A. Binag</i></p>
10:15-11:00	<p style="text-align: center;">OPENING OF EXHIBITS <i>Venue: Rooms 201-205, Second floor, Thomas Aquinas Research Complex</i></p> <p>Cutting of ribbon: Honorable Secretary Fortunato T. de la Peña <i>Secretary, Department of Science and Technology</i></p> <p style="text-align: center;">Rev. Fr. Jesus M. Miranda, Jr., O.P., Ph.D. <i>Secretary General, University of Santo Tomas</i></p> <p style="text-align: center;">Prof. Maribel G. Nonato <i>Vice-Rector for Research and Innovation, University of Santo Tomas</i></p> <p>Viewing of exhibits</p>
11:00-11:40	<p style="text-align: center;"><u>Plenary Lecture 1</u></p> <p style="text-align: center;">Odorant binding proteins as recognition elements for chemical sensing Prof. Krishna C. Persaud <i>The University of Manchester, United Kingdom</i></p> <p style="text-align: center;"><i>Moderator: Prof. Christina A. Binag</i></p> <p style="text-align: center;"><i>Venue: TARC Auditorium</i></p>
11:40-1:30	Lunch Break

Plenary Session		
<i>Moderator: Prof. Lilibeth D.L.C. Coo (Venue: TARC Auditorium)</i>		
1:30-2:10	<p><u>Plenary Lecture 2</u></p> <p>Biosensor research: pruning the bonsai Prof. Salvador Alegret <i>Universitat Autònoma de Barcelona, Spain</i></p>	
2:10-2:50	<p><u>Plenary Lecture 3</u></p> <p>Microfluidic paper-based analytical devices (μPADs) for water analysis Prof. Spas Dimitrov Kolev <i>University of Melbourne, Australia</i></p>	
2:50-3:30	Afternoon break / Poster Session 1	
	<p>Parallel Session 1A (Venue: TARC auditorium) <i>(Moderator: Prof. Cherrie B. Pascual)</i></p>	<p>Parallel Session 1B (Venue: Rooms 203-204) <i>(Moderator: Prof. Jose H. Bergantín, Jr.)</i></p>
3:30-4:00	<p><u>Keynote talk</u></p> <p>Noninvasive metabolic sensor development at the UMBC Center for Advanced Sensor Technology (CAST) Prof. Leah Tolosa <i>University of Maryland Baltimore, USA</i></p>	<p><u>Keynote talk</u></p> <p>Sensors for food packaging: Design and application Prof. Bambang Kuswandi <i>University of Jember, Indonesia</i></p>
4:00-4:20	<p><u>O-1A-1</u></p> <p>Field quality test kits and mobile apps for water activity and plant extract profile for dried medicinal plants Prof. Erwin P. Enriquez <i>Ateneo de Manila University</i></p>	<p><u>O-1B-1</u></p> <p>Automated field-deployable biological and chemical warfare agents sensing system: Integration of aerosol sampling and biosensing technologies Dr. Wilfred V. Espulgar <i>Osaka University</i></p>
4:20-4:40	<p><u>O-1A-2</u></p> <p>Transdermal glucose monitoring using Glucose Binding Protein-Based Fiber Optic Biosensor coupled with microneedles Dr. Cristina E. Tiangco <i>University of Santo Tomas</i></p>	<p><u>O-1B-2</u></p> <p>Vacuum assisted self-assembled reduced graphene oxide/chitosan bio-nanocomposite as chemical transducer of trimethylamine Mr. Rey Alfred G. Rañola <i>Centro Escolar University</i></p>
4:40-5:00	<p><u>O-1A-3</u></p> <p>Electrochemical impedance biosensor for <i>Salmonella enterica serovar Typhimurium</i> based on Bacteriophage PQ1-UST Ms. Pauline Ann M. Quiton <i>University of Santo Tomas</i></p>	<p><u>O-1B-3</u></p> <p>Piezoelectric quartz crystal based on molecularly imprinted polypyrrole for the determination of vitamin C in fortified fruit juices Mr. Charles Francis B. Sanchez <i>University of Santo Tomas</i></p>

22 February 2018 (Thursday)

8:00-9:00	Registration	
Plenary Session <i>Moderator: Prof. Bernard John V. Tongol (Venue: TARC Auditorium)</i>		
9:00-9:40	<p><u>Plenary Lecture 4</u></p> <p>Single molecule sensors: From detecting many to detecting one to detecting many</p> <p>Prof. Justin Gooding</p> <p><i>University of New South Wales, Australia</i></p>	
9:40-10:10	Morning break / Poster Session 2	
	<p>Parallel Session 2A (Venue: TARC auditorium) <i>(Moderator: Prof. Florenda S. Valera)</i></p>	<p>Parallel Session 2B (Venue: Rooms 203-204) <i>(Moderator: Dr. Dharmatov Rahula B. Albano)</i></p>
10:10-10:40	<p><u>Keynote talk</u></p> <p>Diagnostics with paper based nano(bio)sensors</p> <p>Prof. Arben Merkoçi</p> <p><i>Catalan Institute of Nanoscience and Nanotechnology, Barcelona, Spain</i></p>	<p><u>Keynote talk</u></p> <p>Biomimicry at the molecular level: Molecularly imprinted polymers as synthetic antibody mimics</p> <p>Prof. Karsten Haupt</p> <p><i>University of Technology of Compiègne, France</i></p>
10:40-11:00	<p><u>O-2A-1</u></p> <p>Surface modification of screen-printed gold electrode for the determination of benzo[a]pyrene in river water samples using electrochemical immunosensor</p> <p>Dr. Azrilawani Ahmad</p> <p><i>Universiti Malaysia Terengganu, Malaysia</i></p>	<p><u>O-2B-1</u></p> <p>Molecularly imprinted polymer sensing layer for tetracycline chemical sensor based on piezoelectric quartz crystal transducer</p> <p>Dr. Benilda S. Ebarvia</p> <p><i>Industrial Technology Development Institute Department of Science and Technology</i></p>
11:00-11:20	<p><u>O-2A-2</u></p> <p>Development of a gold nanoparticle-labeled sandwich format lateral flow immunoassay kit for the detection of house dust mite (<i>Blomia tropicalis</i>) allergen</p> <p>Mr. Mark Angelo Ngu</p> <p><i>University of Santo Tomas</i></p>	<p><u>O-2B-2</u></p> <p>Influence of some polymerization factors on the fluorescent properties of molecularly imprinted polymers for the detection of chemical warfare: An optimization approach</p> <p>Dr. Dahlia C. Apodaca</p> <p><i>Mapua Institute of TEchnology</i></p>
11:20-11:40	<p><u>O-2A-3</u></p> <p>Chemiresistive sensor for ethanol vapor based on thermally reduced electrophoretically deposited graphene oxide</p> <p>Mr. Carlo P. Andres</p> <p><i>University of Santo Tomas</i></p>	<p><u>O-2B-3</u></p> <p>A molecular imprinted poly(3-thiopheneacetic acid)-titanium dioxide composite for the photoelectrochemical detection of chlorpyrifos</p> <p>Ms. Mia Angela N. Judicpa</p> <p><i>University of the Philippines Diliman</i></p>
11:40-1:30	Lunch break	

Plenary Session		
<i>Moderator: Prof. Florenda S. Valera (Venue: TARC Auditorium)</i>		
1:30-2:10	<p><u>Plenary Lecture 5</u> Molecularly imprinted polymers: from the basic concept to realistic application scenarios Prof. Peter Alexander Lieberzeit <i>University of Vienna, Austria</i></p>	
2:10-2:30	Afternoon break / Poster session	
	<p>Parallel session 3A (Venue: TARC auditorium) <i>(Moderator: Dr. Felicidad Christina R. Ramirez)</i></p>	<p>Parallel session 3B (Venue: Rooms 203-204) <i>(Moderator: Dr. Benilda S. Ebarvia)</i></p>
2:30-3:00	<p><u>Keynote talk</u> A potentiometric sensor for aluminium Ion using new bis-thiourea as novel ionophore Dr. Siti Aishah Hasbullah <i>Universiti Kebangsaan Malaysia, Malaysia</i></p>	<p><u>Keynote talk</u> Novel portable device based on nanowire gas sensors for food quality control Dr. Veronica Sberveglieri <i>CNR Institute of Biosciences and Bioresources, Italy</i></p>
3:00-3:20	<p><u>O-3A-1</u> An amperometric biosensor for the determination of bacterial sepsis biomarker, secretory phospholipase Group 2-IIA using a tri-enzyme system Dr. Nurul Izzaty Hassan <i>Universiti Kebangsaan Malaysia, Malaysia</i></p>	<p><u>O-3B-1</u> Demo (Dr. Veronica Sberveglieri)</p>
3:20-3:40	<p><u>O-3A-2</u> An ultra-low power CMOS-based temperature sensor for implantable systems Dr. Angelito A. Silverio <i>University of Santo Tomas</i></p>	<p><u>O-3B-2</u> Polymer-coated Piezoelectric Quartz Crystal sensors for the authentication of Virgin Coconut Oil Dr. Emelda Ong <i>Industrial Technology Development Institute Department of Science and Technology</i></p>
3:40-4:00	Break	
4:00-4:20	<p><u>O-3A-3</u> Electrochemical determination of ascorbic acid using polyaniline-modified carbon electrode Mr. Liere Roe Dayao <i>University of Santo Tomas</i></p>	<p><u>O-3B-3</u> Exhibitor (Sigmatech)</p>
4:20-4:40	<p><u>O-3A-4</u> Exhibitor (ALV Technologies)</p>	

4:40-5:00	Break
5:00-8:00	Fellowship Cocktails (8th Floor, Central Laboratory Foyer) <i>Sponsored by the College of Science, University of Santo Tomas</i>

23 February 2018 (Friday)	
8:00-8:30	Registration
	Parallel session 4A (Venue: TARC auditorium) <i>(Moderator: Prof. Karen Santiago)</i>
	Parallel session 4B (Venue: Rooms 203-204) <i>(Moderator: Dr. Emelda Ongo)</i>
8:30-9:00	<u>Keynote talk</u> The Sensing of Food Quality in Malaysia: Issues and Challenges Prof. Musa Ahmad <i>Universiti Sains Islam Malaysia, Malaysia</i>
	<u>Keynote talk</u> Human olfactory interfaces Prof. Takamichi Nakamoto <i>Tokyo Institute of Technology, Japan</i>
9:00-9:20	<u>O-4A-1</u> Colorimetric DNA detection on paper microchip using isothermal amplicon and crystal violet dye Dr. Minhaz Uddin Ahmed <i>Universiti Brunei Darussalam</i>
	<u>O-4B-1</u> Differentiation of some Philippine aromatic rice (<i>Oryza sativa L.</i>) varieties using electronic nose Mr. Michael E. Serafico <i>Food and Nutrition Research Institute Department of Science and Technology</i>
9:20-9:40	<u>O-4A-2</u> Thermally reduced graphene oxide film for the reversible sensing of elemental mercury vapour Mr. Alan Rodelle M. Salcedo <i>University of Santo Tomas</i>
	<u>O-4B-2</u> Nanobiosensor for the detection of <i>Phytophthora palmivora</i> in cacao (<i>Theobroma cacao L.</i>) Mr. Anthony James DM. Franco <i>University of the Philippines Los Baños</i>
9:40-10:00	<u>O-4A-3</u> Use of a Carbon Dioxide Analyzer in Biofiltration Dr. Daisy Badilla <i>Philippine Nuclear Research Institute</i>
	<u>O-4B-3</u> Measurement of particulate matter exposure of drivers and passengers of Ikot jeepney in the University of the Philippines Diliman Campus using low- cost portable dust sensors Mr. Paul Alexander C. Darvin <i>University of the Philippines Diliman</i>
10:00-10:20	<u>O-4A-4</u> Exhibitor (Analog Devices)
	<u>O-4B-4</u> Exhibitor (Shimadzu)
10:20-11:00	Morning break
Plenary Session <i>Moderator: Prof. Cynthia Grace Gregorio (Venue: TARC Auditorium)</i>	
11:00-11:40	<u>Plenary Lecture 6</u> Electrochemiluminescent biosensors for medical diagnosis and food analysis Prof. Eiichi Tamiya <i>Osaka University, Japan</i>

11:40-12:20	<p style="text-align: center;"><u>Plenary Lecture 7</u> Smartphones as sensor platforms: From gadget to measuring system Prof. Sergey Y. Yurish <i>International Frequency Sensor Association, Spain</i></p>
12:20-1:00	<p style="text-align: center;">CLOSING CEREMONIES</p> <p>Review of activities</p> <p>Closing remarks: <i>Prof. Bernard John Tongol, Co-Chair, Organizing Committee</i></p>
1:00-1:30	<p style="text-align: center;">Farewell lunch</p>