

Presentation Schedule - Oral

DAY 1 – Wednesday, 20th October 2021

Time	Parallel Sessions		
08:30 – 09:00	Registration and Housekeeping Announcement		
Topic	Chemical Sensors and Biosensors (CB)	Electrochemical Sensors (ES)	Nanomaterial (NT)
Chair session	Assoc. Prof. ChM. Dr. Faizatul Shimal Mehamod	Assoc. Prof. ChM. Dr. Jaafar Abdullah	Assoc. Prof. Dr. Sharina Abu Hanifah
09:00 – 09:15	CB 01 Eda Yuhana binti Ariffin A Highly Sensitive Impedimetric DNA Biosensor based on Hollow Silica Microspheres for label-free determination of <i>E.coli</i>	ES 01 Nur Zafirah Mohd Izhah Potential Spacer for Electrochemical DNA Sensor: Synthesis and Characterization of p-Nitro Schiff Base	NT 01 Nurul Shahirah Hasim Characterization of Nanocrystalline Cellulose-Gold Nanoparticles/ Chitosan Modified Screen-printed Carbon Electrode and Its Application in the Fabrication of Electrochemical Biosensor for Tetracycline Detection
09:15 – 09:30	CB 02 Muhammad Hafiznur Yunus An Aptamer-Antibody Sandwich Electrochemical Biosensor for Sensitive Detection of Mycobacterium Tuberculosis Cfp10 Antigen	ES 02 Noraisyah Abdul Kadir Jilani Electrochemical Biosensor for The Detection of Porcine DNA using Copper(II) Tetraaza Complex	NT 02 Fatin Nabilah binti Mohd Faudzi Optimization on AuNP-Ab Conjugate of Lateral Flow Immunoassay for Mycobacterium Tuberculosis Detection
09:30 – 09:45	CB 03 Normazida Binti Rozi Split DNA Aptamers for 17 β -Estradiol Electrochemical Aptasensor	ES 03 Nadrahtul Huda Misral Electrochemical Sensor for Pb(II) Based on Bis-Indolylmethane Derivative with Physically Immobilised SBA-15	NT 03 Mohamad Idris Saidin Modified Mesoporous Silica Nanoparticle as An Electrochemical Sensor of Acetaminophen
09:45 – 10:00	CB 04 Emma Izzati Zakariah Hexaferrocenium Tri[Hexa(Isothiocyanato)Iron(II D)] Trihydroxonium Complex as A New DNA Intercalator for Electrochemical DNA Biosensor	ES 04 Nurul Hidayah Abdul Razak Electrochemical Determination of Copper(II) Ions in Water Using Polyacrylic-Graphene-Thiourea Modified Electrode	NT 04 Nurulhaidah Daud Tripeptide CAC and MWNT-Based Electrochemical for Mercury(II) Ions Detection
10:00 – 10:15	INVITED CB 01 Loc Thai Nguyen Epitope-imprinted Polydopamine Electrochemical Sensor for Gliadin Detection	ES 05 Nor Faezah Mohd Daud Electrochemical Behaviour of Carbon Dots-Chitosan Modified Electrode for The Detection of Bisphenol A	NT 05 Eka Safitri Characterization of Pectin-Chitosan Polyelectrolyte Complex (PEC) Membrane as a Matrix for Optical pH Sensor Development Using

			Chromoionophore Nile Blue 5294
10:15 – 10:35	INVITED CB 02 Zainiharyati Mohd Zain SARS-CoV-2 from Human Nasopharyngeal Swab Sample Detection on DNA Nanobiosensor	INVITED ES 01 Azrilawani Ahmad Electrochemical Sensor for Measurement of Total Alkalinity in Seawater Samples	INVITED NT 01 Muhamad Ramdzan Buyong Dielectrophoresis Lab-on-a-Chip Devices for Medical Research
10:35 – 11:00	Refreshment / Poster Presentation		
11:00 – 12:00	<p align="center">OPENING CEREMONY National Anthem - Negaraku Varsiti Kita Song Doa Recitation</p> <p align="center">Welcoming address: <i>Assoc. Prof. Dr. Siti Aishah Hasbullah</i> <i>AsiaSense 2021 Conference Chair</i></p> <p align="center">Welcoming address: <i>Prof. Dr. Mohammad Kassim</i> <i>Deputy Vice Chancellor, Universiti Kebangsaan Malaysia</i></p> <p align="center">Opening speech: <i>Dato' Prof. Dr. Husaini Omar</i> <i>Director General, Ministry of Higher Education</i></p> <p align="center">Montage Show Photography Session</p>		
12:00 – 12:45	<p align="center">PLENARY 1 Prof. Dr. Damien Arrigan Curtin University, Australia Electrochemical Sensing with Ion Transfer at Oil-Water Interfaces</p> <p align="center">Chairperson: Dr. Nur Azura Mohd Said</p>		
12:45 – 14:00	Refreshment / Poster Presentation		
14:15 – 15:00	<p align="center">PLENARY 2 Scientia Prof. J. Justin Gooding The University of New South Wales Sydney, Australia From Ultrasensitive to Single Molecule Biosensors That Operate in Complex Biological Fluids for Liquid Biopsies</p> <p align="center">Chairperson: Prof. Dato' ChM. Dr. Musa Ahmad</p>		

Chair session	Dr. Syaza Azhari	Dr. Mohd Fairulnizal Md Noh	Assoc. Prof. ChM. Dr. Tan Ling Ling
15:00– 15:15	CB 05 Nur Azura Mohd Said Phytohormone-Based Immunosensor for the Determination of Stingless Bee Honey	ES 06 Faizatul Shimal Mehamod Synthesis and Characterizations of Sensitive and Selective	NT 06 Wulan Tri Wahyuni A Facile Electrochemical Sensor Based on Composite of Electrochemically Reduced Graphene Oxide

		Electrochemical Sensor Based on Molecularly Imprinted Technique for Detection of Picolinic Acid	and PEDOT:PSS Modified Glassy Carbon Electrode for Uric Acid Detection
15:15 – 15:30	CB 06 Parisa Moazzam Ultrasensitive, Selective and Rapid Biosensors for Multiple Immunoinhibitory Biomarkers Detection Directly in Whole Blood	ES 07 Faizuan Abdullah Labile Ligands Effect on The Detection of Lead Using Cyclic Voltammetry	NT 07 Sharina Abu Hanifah 17-Ethynyl Estradiol Electrochemical Aptasensor using Polymer Microspheres with Gold Nanoparticles
15:30 – 15:45	CB 07 Nurul Huda Abdul Razak Fabrication of Vertically Aligned SiNWs for Sensing Application	ES 08 Muhammad Ameerullah Sahudin Regenerable Impedimetric Sensor Based on Hydroxyl Functionalised Zinc(II) Salphen Complex Electrode for Histamine Determination	NT 08 Mohammad Hafizuddin Mohd Zaki A Novel Approach for Synthesis of Nanostructured Gold Coating via Hydrogen Bubble Dynamic Template for Non-Enzymatic Detection of Glucose
15:45 – 16:00	Refreshment / Poster Presentation		
16:00 – 16:15	CB 08 Abdul Mutalib Md Jani Specific Electrochemical Biosensor for Porcine DNA Detection with Engineered Nanoporous Materials as Capturing Agents	ES 09 Nurul Hana Masod Enzyme-Based Electrochemical Biosensor on Immobilization of Tyrosinase onto Carboxyl Functionalized Carbon Nanotube for Detection of Tyramine	NT 09 Ahmad Anwar Zainuddin Multi Channel QCM for Determination the Odour of Volatile Organic Compounds
16:15 – 16:30	CB 09 Nusratina Ain Norizham Electrochemical Properties of the Diclofenac on the Screen-Printed Carbon Electrode and the Application of the Sensor for Detection of Diclofenac in Some Pharmaceutical Samples	ES 10 Nurul Mahira Salahuddin Electrochemical Magneto-Immunosensing Assay for the Detection of Porcine Serum Albumin in Raw Meat	NT 10 Nor Syahira Mohd Tombel Nanoparticles Functionalized Reduced Graphene Oxide Thin Films for Detection of Acetic Acid at Low Concentrations
16:30 – 16:50	INVITED CB 03 David Ibáñez Development of a Sensitive Acetaldehyde/Fungicides Biosensor Based on Carbon Nanostructures	INVITED ES 02 Alizar Ulianas Molecularly Imprinted Polymeric Microspheres for Electrochemical Sensing of Cholesterol	INVITED NT 02 Minhaz Uddin Ahmed An Ultra-Sensitive Label-Free Electrochemiluminescence CKMB Immunosensor Using a Novel Nanocomposite-Modified Printed Electrode
Keynote chair session	Assoc. Prof. Dr. Siti Aishah Hasbullah	ChM. Dr. Nurul Huda Abd Karim	Assoc. Prof. Ts. Dr. Mohd Kamarulzaki Mustafa
16:50 – 17:20	KEYNOTE 1	KEYNOTE 2 Prof. Dr. Fortunayo B. Sevilla	KEYNOTE 3 Prof. Dr. Krishna Persaud The University of

	<p>Prof. ChM. Dr. Nor Azah Yusof Universiti Putra Malaysia Sensors in Medical, Agriculture and Environment</p>	<p>University of Santo Tomas, Manila, Philippines Gas Sensor Arrays for Plant Species Discrimination</p>	<p>Manchester United Kingdom Biomimetic Approaches to Chemical Sensing</p>
<p>17:20 – 18:05</p>	<p>PLENARY 3 Prof. Dr. Elizabeth Hall University of Cambridge United Kingdom From Gene to Device: Diagnostics in Low Resource Areas Chairperson: Prof. ChM. Dr. Lee Yook Heng</p>		

DAY 2 – Thursday, 21st October 2021

09:30 – 10:15	PLENARY 4 Assoc. Prof. Dr. Werasak Surareungchai King Mongkut's University Technology of Thonburi Thailand Biosensors and Chemical Sensors: Applications in The Day of Digital Transformations Chairperson: Assoc. Prof. ChM. Dr. Zainiharyati Mohd Zain		
Time	Optical Sensors (OS)	Physical Sensors (PS)	Solid State Sensors (SS)
Chair session	Dr. Khor Sook Mei	Dr. Syaza Azhari	Dr. Suria Mohd Saad
10:15 – 10:35	INVITED OS 01 Jaafar Abdullah Fluorescence Sensing Platform Based on Quantum Dots for Food Pathogen Detection	INVITED PS 01 Mohd Syamsul Nasryiq Samsol Baharin COVID-19 Pandemic: How Semiconductor Technology Discoveries Can Combat Both Current and Future Pandemics	INVITED SS 01 Sagir Alva The Carbon of A Dry Cell Battery as A Potential of the Nitrate-ion Selective Electrode (NO ₃ -ISE) F
10:35 – 11:00	Refreshment / Poster Presentation		
11:00 – 11:15	OS 01 Wan Maisarah binti Mukhtar Diagnosis of COVID19 using Ag/ZnO/Chitosan SPR Sensor by Controlling Light Excitation Wavelength	PS 01 Firda Apriyani Modified Fluorescent Silica Nanoparticles for Immuno-Detection of IgY Antibody	SS 01 Naif H. Al-Hardan Al-Hardan Enhancing the Hydrogen Gas Sensing Properties of Zinc Oxide Doped with Aluminium Prepared via Thermal Oxidation
11:15 – 11:30	OS 02 Rovina Kobun Development of Sodium Alginate Encapsulated Gold Nanoparticles for The Detection of Xanthine in Fish	PS 02 Erna Husna Kana Development and Chemical Characterization of Edible Film-Based Anthocyanin and Starch	SS 02 Khatijah Aisha Yaacob Factors Affecting Sensitivity of Silicon Nanowires-Based Biosensor
11:30 – 11:45	INVITED OS 02 Tan Ling Ling Optical DNA Biosensing Methodologies for Clinical Diagnostic Applications	PS 03 Joseph Merillyn Vonnice Physical and Morphology Characteristics of Biodegradable Eggshell Based Orange Peel Activated Carbon Film for Absorption of Cadmium(II) Ions	SS 03 Jahwarhar Izuan Abdul Rashid An Electrochemical Sensor Based on Reduced Graphene Oxide Nanocomposites Modified Screen Printed Electrode For the Detection of Pseudomonas Aeruginosa Infection
11:45 – 12:05	OS 03 Nur Habibah Safiyah Bt Jusoh Synthesis of Molecularly Imprinted Polymer for Removal of Tryptophan in Aqueous Medium	INVITED PS 02 Shahrul Ainliah Alang Ahmad Electrochemical Detection of Water Pollutants Based on Calixarene-Based Sensors	INVITED SS 02 Asilah Ahmad Tajudin Detecting Antibodies via Bio-nanogate Manipulation on Electrode Surface

12:05 – 12:20	OS 04 Suhaila Sapari A Novel Thiourea Derivatives and Binding Behaviour Towards the Mercury Ions	PS 04 Sahrim Lias The Application of Electronic Nose Coupled with 80:20 K-Nearest Neighbors Classification Technique	SS 04 Abdul Hadi Mahmud A Novel Nanoporous Alumina Wire Immunosensors with Gold Nanoparticles Conjugated with Antibody Targeting Porcine Serum Albumin
12:20 – 13:00	PLENARY 5 Prof. Dr. Arben Merkoci Catalan Institute of Nanoscience and Nanotechnology Barcelona Spain Nanobiosensors For Diagnostics Applications Chairperson: Assoc. Prof. ChM. Dr. Jaafar Abdullah		
13:00 – 14:30	Refreshment / Poster Presentation		
Chair session	Dr. Sagir Alva	Dr. Nur Azura Mohd Said	Assoc. Prof. Dr. Azrilawani Ahmad
14:30 – 14:45	OS 05 Thiyah A/P Balakrishnan Microwave Assisted Synthesis of Carbon Dots from Palm Kernel Shell and Their Ability in Cell Imaging and Heavy Metal Ion Sensing	INVITED PS 03 Mohd Kamarulzaki Mustafa Detection of Human Chorionic Gonadotropin (hCG) by Direct and Competitive Assay: Impedance Characteristics	INVITED SS 03 Sook Mei Khor A Microfluidic Paper-Based Analytical Device for Early Diagnosis and Prognosis of Acute Myocardial Infarction
14:45– 15:00	OS 06 Nur Izzati binti Zakaria Optical Urea Biosensor Based on Immobilisation of Urease Enzyme on Calcium Carbonate Nanoparticle	PS 05 Cristian F. Guajardo Yvenes Modelling The Current's Time Response of Interdigitated Array in Shallow Electrochemical Cell	SS05 Aliff Aiman Mohamad Rozlan Fabrication of Functionalized Methacrylate-Acrylate Microsphere Polymer Immobilize with Aptamer as 17 - Estradiol Biosensor
15:00 – 15:15	OS 07 Yakubu Newman Monday One-Pot Synthesis of Nitrogen-Doped Carbon Quantum Dots from Palm Kernel Shell Biomass Coupled with AuNPs for The Detection of Dengue Virus	PS 06 Cristian F. Guajardo Yvenes Simulation of Interdigitated Array with Counter Electrode in Shallow Electrochemical Cell	SS 06 Nurul Huda Abdul Razak Study of SiNWs by Metal-assisted Chemical Etching (MACE) for Sensing Application
15:15 – 15:30	OS 08 Nurul Huda Abd Karim Metal Salphen Based Optical Sensors to Improve Food Safety	INVITED PS 04 Mohd Shahrul Mohd Nadzir Making Sense of Sensor: An Update From Low-Cost Air Quality Sensor for Air Quality Monitoring in Malaysia	INVITED SS 04 Tang Kok Mun COVID-19 and Beyond: New Digital Approach to Disease Diagnosis
15:30 – 15:45	Refreshment / Poster Presentation		
15:45 – 16:00	OS 09	PS 08	SS 07

	<p>Siti Aishah Hasbullah Fabrication of Optical Sensor for Cu (II) detection based on newly synthesized Bis-Thiourea Ionophore Immobilized on Mesoporous SBA-15</p>	<p>Ma Robellene S Castillo Impedimetric Sensor based on Molecularly Imprinted Polypyrrole Modified Screen Printed Electrode for the Detection of Carbofuran</p>	<p>Aarushee Rangra High Performance Flexible Strain Sensors Based on Helical 1D Nanostructures with Cross-Linked Gold Nanoparticles</p>
16:00 – 16:15	<p>OS 10 Devika Nokarajoo Selective Detection of Copper Ion using immobilized Tetraaza-SBA15 in Teabag as an Ionophore Based Optical Sensor</p>	<p>PS 09 Muhamad Syaddad bin Norizal A Short Review of Current Trends Codeine Determination Using Chromatographic and Electrochemical Methods</p>	<p>SS 08 Mohamad Hafiz Ahmad Tajuddin Determination of Glucose Using High Sensitivity and Wide Working Range MWCNT Modified with LDH_F Nanocomposites</p>
16:15 – 16:30	<p>OS 11 Khairi Suhud Instrumentation System of Rhodamine B Level in Syrups Using TCS3200 Sensor</p>		<p>INVITED SS 05 Nurul Izzaty Hassan Secretory Phospholipase Group 2 IIA (sPLA2-IIA) Point-of-Care Biosensor Diagnostic Kit</p>
16:30 – 16:45	Refreshment / Poster Presentation		
Keynote chair session	<p>Assoc. Prof. Dr. Asilah Ahmad Tajudin</p>	<p>Prof. Dato' ChM. Dr. Musa Ahmad</p>	<p>Assoc. Prof. Dr. Siti Aishah Hasbullah</p>
16:45 – 17:15	<p>KEYNOTE 4 Dr. Can Dincer University of Freiburg Germany Disposable Integrated Sensors for Next-Generation On-Site Testing</p>	<p>KEYNOTE 5 Prof. Dr. Bambang Kuswandi University of Jember Indonesia Food Freshness Sensors: Concepts, Applications and Future Trends</p>	<p>KEYNOTE 6 Assoc. Prof. Dr. Ruslinda A. Rahim Universiti Malaysia Perlis Malaysia Immuno-Probe Graphene Nanoplatelets on Electrolyte-Gated Field Effect Transistor for Stable Cortisol Quantification in Serum</p>
17:15 – 18:00	<p>PLENARY 6</p> <p>Prof. Dr. Manabu Tokeshi Hokkaido University Japan Simple Sensing Systems for Clinical Applications</p> <p>Chairperson: Prof. ChM. Dr. Nor Azah Yusof</p>		
18:00– 18:30	<p>CLOSING CEREMONY Awards Ceremony Closing Remarks by the Chairman of Sensor Malaysia: <i>Prof. Dato' Dr. Musa Ahmad, Chairman of SENSOR Malaysia</i></p>		