

09 - 11OCTOBER2024



GREEN INNOVATION IN CHEMISTRY: CATALYZING SUSTAINABLE SOLUTIONS FOR A GREENER TOMORROW

ORGANIZED BY

School of Chemical Sciences





CO-ORGANIZED BY



IPB University

— Bogor Indonesia —



LIST OF PRESENTING PARTICIPANTS

CODE	NAME	TITLE		
	DR. KAVIRAJAA PANDIAN	Electropolymerization of Polyaniline: A		
1) / 04		Versatile Approach for Rapid Deployment of		
IV-01	SAMBASEVAM	Sensors in Food and Environmental Pollutant		
		Monitoring		
		Advanced Microextraction Methods for		
IV-02		Polycyclic Aromatic Hydrocarbons in Food		
10-02	DR. MUGGUNDHA RAOOV	Using Magnetic Nanoparticle-Ionic Liquid		
		Technology		
		New Crosslinking Routes of Rubber		
IV-03	DR. SUBHAN SALAEH	Vulcanizates for Smart and Sustainable		
		Materials		
	DR. ALOYSIUS AKAANGEE PAM	Making The Switch from Traditional Activating		
ANA-01		Agents to Eco-Friendly Solvents for Activated		
AINA-UT		Carbon: A Step Towards Long-Term Pb(II)		
		Removal from Water		
	DR. ISA KOKI	The Use of Chemometric Techniques in The		
ANA-02		Assessment and Source Identification of		
AINA-02		Toxic Metal Pollutants Along Kano Rivers		
		Nigeria		
		Enhanced Stability and Permeability of		
ANA-03	MR. ZHEN HONG CHANG	Graphene Oxide Nanocomposite Membranes		
		Via Glycine and Diglycine Cross-Linking		
ANA-04	VICHV HVWID BVI OCH	Development of Bimetallic Supported on 3D-		
AINA-U4	AISHA HAMID BALOCH	Structured Metals Catalysts		
		Electrochemical Degradation of Methylene		
ANA-05	MR. NASIR MUAZU	Blue (MB) Using Graphite/PVC Anodes		
		Coated with Nickel Oxide and Zinc Oxide:		

		Optimization, Kinetic Analysis and Industrial		
		Application Potential		
		Development of Dummy Template		
ANIA 00	MR. YAHAYA ALIYU	Molecularly Imprinted Polymer for The		
ANA-06	DANMARAYA	Adsorption of Organophosphorus Pesticides:		
		Preliminary Studies		
		Development of Magnetic Graphene Oxide-		
ANA-07	MUSAB ALGHODRAN	Deep Eutectic Solvent for The Determination		
AINA-U/		of Organophosphorus Pesticides: A		
		Preliminary Studies		
		Fabrication of Carboximetyl Chitosan-		
ANA-08	DR. SAPTONO HADI	Alginate Polyelectrolyte Complex Membrane		
		for Adsorption of Methylen Blue in Water		
	NI IDEA DI IANUNA A DI I	Innovative Chitosan Hydrogels as A		
ANA-09	NURFARHANIM ABU BAKAR	Sustainable Plant Growth Regulator for		
	27 110 111	Resilience Agriculture		
ANA-10	ZULHAN ARIF	Simple Detection of Hexavalent Chromium in		
ANA-10	ZOLITAN ANII	Solutions Using Optode Membrane		
		Microparticles Zerumbone from Zingiber		
ANA-11	NATALIA MARBUN	Zerumbet Rhizome in Chitosan Modified		
		Oleic Acid		
	DODEEN ND OUANDDA	Rapid Portable Atmospheric Solids		
ANA-12	DOREEN NB CHANDRA SIRI	Analysis Probe Mass Spectrometry for On-		
	J	Site Urine Drug Screening		
		Exploration of Potential Application of Natural		
		Deep Eutectic Solvent in Vortex Assisted		
ANA-13	AMIRUL RAHIMI NORAZMI	Liquid-Liquid Microextraction for The		
		Determination of Selected Furanic		
		Compounds in Honey		

		Trends in Bimetallic Nanomaterials and		
ANA-14	MR. MAMDOOH QATAN	Methods for Removal of P-Nitrophenol and Its		
		Derivatives from Wastewater		
		Environmental Assessment of Single-Use		
ANA-15	YI HUAN TAN	Laboratory Plastic Waste: A Case Study		
ANA-16	ZENI RAHMAWATI	Potentiometric Sensor-Based Imprinted TS-1		
AINA-16	ZENI KARIMAWATI	Zeolite for Selective Detection of Cholesterol		
	ASSOC. PROF. DR.	Green Synthesis of Iron Nanoparticles using		
ANA-17		Tagetes Erecta Flower Extract for The		
	MATEEN ABBAS	Detoxification of Various Mycotoxins		
	AR. DR ALIYU	Voltammetric Detection of Amoxicillin		
ANA-18	MUHAMMAD	Residue in Milk at Nanohybrid Modified		
	MOHAMIMAD	Screen Printed Electrode		
	YEHEZKIEL STEVEN KURNIAWAN	Design and <i>In Silico</i> Modelling of		
BIOCHEM-		Heterocyclic-Based Xanthone Derivatives as		
01		Potential Anticancer Agent Through Tyrosine		
		Kinase Inhibition		
		Discovery of Indoleninyl-Pyrazolo[3,4-		
BIOCHEM- 02	HUSNAINI BASIR	b]pyridines as Potent Chemotherapeutic		
02		Agents Against Colorectal Cancer Cells		
		In Silico Peptidomics in Identifying Novel		
BIOCHEM- 03	YONG YONG ONG	Bioactive Peptides from Sludge Worm (<i>Tubifex</i>		
03		Tubifex): A Green Chemistry Approach		
BIOCHEM-	TDIVA DIL A	In Vitro Kinetics of Cyclooxygenase-2 (COX-2)		
04	TRIVADILA	Inhibition by Spagneticola Tribolata Extract		
		Reforming Wood Preservative Delivery:		
		Employment of Tebuconazole-Loaded Self-		
IND-01	ZHEXUN ONG	Emulsifying Drug Delivery System (SEDDS)		
		and Tebuconazole-Loaded Zein		
		Nanoparticles		

IND-02	ISABELLE ZIEGLER-DEVIN	Green Approach to Produce Lignin Nanoparticules				
IND-03	MS. AFREEN AHTESHAM	Development Of PPy/MnO ₂ /N-CNT Coated Carbon Felt Anode for Microbial Degradation of Methyl Yellow Dye				
IND-04	NOR NAJHAN IDRIS	Enhancing Lignin Properties Via Steam Explosion Pretreatment: A Novel Modification Approach				
IND-05	SANI MUHAMMAD GUMEL	Investigation of Chitosan Efficacy as A Good Delivery Biopolymer for Anti-Breast Cancer Drugs Through Molecular Docking				
IND-06	MOHAMAD HAMDI ZAINAL ABIDIN	Neoteric Green Solvents for Improved Solubility and Antioxidant Activity of α -Tocopherol				
IND-07	LAI YEE LEE	Development of A 3D Reduced Graphene Oxide Aerogel for Treatment of Pharmaceutical Wastewater				
INO-01	ADHI DWI HATMANTO	Incorporation of ZnO Nanofillers into Chitosan/Ki/I ₂ -Based Quasi Solid Electrolytes				
INO-02	RATIH LESTARI	Sustainable Recycling of Plastic Bag Waste into Carbon Quantum Dots Using Optimized Pyrolysis-Hydrothermal Methods for Selective Fe(III) Sensing				
INO-03	INDRIANA KARTINI	Carbon Dot Nanocomposites from Cajeput Tree Modified with Folic Acid and Chlorophylls as Potential Photosensitizers for Photodynamic Therapy				
INO-04	MR. AHMAD ALIF SYAMSUDDIN MOHAMAD NASIR	NiO/CeO ₂ -Al ₂ O ₃ Mesoporous Catalyst Supported on Alumina Beads for Hydrogen Generation from Ammonia Decomposition				

		Seeking The Potentiality of	
		Phenylphosphonate/HDPE/Graphene Oxide	
INO-05	MR. HII CHIONG HWEE	Composite: An Environmentally Friendly	
		Flame Retardant	
		Microwave-Assisted Synthesis and	
INO-06	MAS SYAZLIN MASBAH	Characterisation of Zinc Oxide Quantum Dots	
1140 00	TING CITIZENT INCOME	for Detection of Antibiotics	
		Microwave-Assisted Synthesis of Carbon	
INO-07	MUHAMMAD AMIR	Quantum Dots from The Deactivated Cells of	
1140 07	FIRDAUS MOHD ZULKFLY	Pseudomonas Aeruginosa Usm-AR2	
	MS. HANISAH ZAINAL	Effect of Tin Filler Composition on Porosity in	
INO-08	ABIDIN	Tin-Polydimethylsiloxane Composites	
		Enhanced Photocatalytic Degradation of	
INO-09	NOVIYAN DARMAWAN	Emerging Pollutants by Hybrid Metal-Organic	
1140-03		Frameworks and Carbon Dots Composites	
		Kinetic and Optimization Studies of	
	MR. MUHAMMAD FATHURRAHMAN	Methylene Blue Photodegradation Over Fe-	
INO-10		PTC MOF and H ₂ O ₂ using Response Surface	
		Methodology	
		Microware-Assisted Synthesised SnO ₂	
INO-11	SEOW CHING PHOON	Quantum Dots Photocatalysts for The	
		Removal of Antibiotics	
		Sulfone-Centred Systems with Diverse	
	MS. NUR AMANINA	Terminal Alkoxy Chains: Synthesis,	
INO-12	JUNIASARI TUN NUR ISKANDAR	Characterization, and Their Mesomorphic	
		and Photoluminescence Behaviors	
	MRS. LUTFIYA	Fe ₃ O ₄ @SiO ₂ Modified HDTMS Hydrophobic	
INO-13	MRS. LUTFIYA RIZQIYANIKA	Coatings as Anti-Corrosion Coating on Steel	
		Synthesis And Characterization of Layered	
INO-14	ZI KANG KOI	Double Hydroxide	
		-	

		Microwave-Assisted Synthesis of Laccase of		
INO-15	AMAL NAYEF AL-MOMANI	Trametes Hirsuta-Derived Carbon Dots for		
		Ciprofloxacin Detection		
		Catalytic Hydrogenation of CO ₂ to Methanol		
INO-16	DR. NOR HAFIZAH	Over Cu/ZnO Based Catalyst Supported on		
	BERAHIM	Various Types of Al₂O₃ Pellet		
	MS. JEESICA HERMAYANTI	Catalytic Study of CO/γ-Al ₂ O ₃ on The		
INO-17	PRATAMA	Deoxygenation of Palm Oil Biodiesel for Green		
	Phalama	Diesel Production		
	MRS. NURUL ATIKAH	Enhanced Photocatalytic Generation of H ₂ O ₂		
INO-18	NORDIN	via a Composite of ZIF-8 and Carbon-Doped		
	NONDIN	g-C₃N₄ Derived from Kapok Fiber		
	FIA FATHIANA WULAN	Evaluating Antimalarial Properties Via		
		Chemical Modification of Furan-Based		
ORG-01		Chalcones: Insights from Biological Activity,		
		DFT Calculations, Molecular Docking, and		
		ADMET Study		
	MS. YAP PUI WING	Synthesis and Properties of Non-Linear		
ORG-02		Disulphide-Centered S-Shaped Oligomers		
		Armed with Aromatic Azo Moieties		
		TMPTA Crosslinker UV-Grafted BPADA-BAPP		
ORG-03	LIM XIN YI	Polyimide Thin Films: Thermos-Chemical		
		Stability and Structural Characterization		
		Acid-Activated Natural Zeolite Clinoptilolite		
	_	Functionalized with Curcumin for Superior		
ORG-04	MS. NUR FATIN ATIKAH ABDUL MUTALIB	Methylene Blue Adsorption: Insights into		
	ADDOL MOTALID	Optimization, Characterization, and		
		Adsorption Mechanisms		
000 05	MC DANIA AINIAW U OVA	Utilization of Poly(Glycidyl Methacrylate-Co-		
ORG-05	MS. DANA AINAKULOVA	Butyl Acrylate) Reactive Dilutes to Improve		

		The Properties of Epoxy Resin as			
		Anticorrosion Coating			
		Synthesis of Chitosan-Alginate-			
ORG-06	BUDI HASTUTI	Montmorillonite Hydrogel Micro Composite			
0110-00	BODITIASTOTI	for Paracetamol Adsorption in Aqueous			
		Solutions			
		Isolation, <i>In-Vitro</i> Cytotoxicity and Molecular			
ORG-07	MR. AIDIEL MOHAMMAD	Docking of Polymethoxyflavones from			
		Kaempferia Parviflora on Breast Cancer Cell			
		Lines			
		Effect of Solvent Polarity on Side-Chain			
ORG-08	BUDI ARIFIN	Rearrangement in Bromination of			
		Methyleugenol with Molecular Bromine			
	REYMARK EREJE	Synthesis, Molecular Docking and			
ORG-09		Quantitative Structure-Activity Relationship			
0110-09		Analysis of Bioactive 2o-Alkylated			
		Benzofuropyridines			
	MR. ABRAR MOHAMMAD SAYAF	Evaluation of 2-(1H-1,2,3-Triazol-1-yl)acetic			
ORG-10		Acid Derivatives as Potential Human Hypoxia			
0110-10		Inducible Factor (HIF) Prolyl Hydroxylase			
		Domain-2 (PHD2) Inhibitors			
		Anti-inflammatory Activity of Biflavonoid from			
ORG-11	NAFISAH NAFISAH	Genus Araucaria: In Vitro and In Silico			
		Approach			
ORG-12	DR. CHAPUIS HUBERT	Chemical Treatment of Flax Fibre Materials for			
ONG-12	DR. CHAPOIS HOBERT	Biocomposite Applications			
		Remarkable Enhanced Visible Activity of TiO ₂ -			
PHY-01	MS. EARLY ZAHWA	N CO-DOPED with Cu from Electroplating			
FIII-UI	ALHARISSA	Wastewater for Degradation of Amoxicillin			
		Residual in Water Media			

	KELLY LOKE KAH YEE	Enhancing Plastic Pyrolysis: Predictive		
PHY-02		Analysis Integrated with Machine Learning		
	MR. GANAPATY	Unlocking The Synthesis Tuning of Hydrochar-		
PHY-03	MANICKAVASAGAM	Based Catalysts for Enhanced		
	MANIORAVAGAGAM	Peroxymonosulfate Activation		
		Doping TiO ₂ with Cu from Electroplating		
DLIV 04	FIVA DDATICTA	Wastewater for Remarkable Improvement of		
PHY-04	EKA PRATISTA	Its Activity Under Visible Light for E. Coli		
		Bacterial Disinfection in Water		
		Fabrication of KOH Impregnation Pome		
		Sludge Biochar-Based Photocatalyst Via		
PHY-05	MS. MARYAM ABDUL- RAHEEM	Hydrothermal Synthesis for		
	NAMEEM	Photodegradation of Ciprofloxacin Antibiotic		
		Pollutant Under Solar-Simulated Visible Light		
DI IV 00	MD MOKARRAM BADSHA	Predictive Analyses for The Dark Fermentative		
PHY-06		Hydrogen Production from Food Waste		
	MR. AHMAD ALIN BAFFA	Synthesis and Characterization of Graphene		
DUN 07		Oxide Zinc Metal-Organic Framework (BgO-		
PHY-07		ZnMOF) for The Removal of Bisphenol-A in		
		Wastewater Via Adsorption Process		
		Enhanced Photodegradation of Ceftazidime		
DLIV 00	SUN YANLI	by BIOBR(110)/BIOCL(110) Composite: Its		
PHY-08		Synthesis, Mechanism, and Degradation		
		Pathways		
		Integrated Ligand and Structure Based		
DUN 00	DI III ID IOI IN AMEII	Approaches for The Design of Novel		
PHY-09	PHILIP JOHN AMEJI	Antagonists of Estrogen Receptor Alpha (ERα)		
		from Colchicine Amides and Sulfonamides		
DIN 2.5		Optimizing Curing Duration of Self-Healing		
PHY-10	YUNG XIN KOH	Chitosan/Polyacrylamide Hydrogel Coating		

	on Polyethersulfone Membrane for Enhance				
		Stability and Filtration Efficiency			
DUVAA	MENIONIANINA	Biosorption of Cu(II) onto Dried Activated			
PHY-11	MENGNAN WANG	Sludge: Equilibrium and Kinetic Studies			
		Characterization Of Food Freshness Indicator			
PHY-12	HENNY PURWANINGSIH	from Ganyong Flour Modified with The			
PH1-12	HEININT PORVVAININGSIH	Addition of Nanocellulose from Corn Husk			
		and Curcumin			
	DUT NOVALIA	Indonesian Medicinal Plants Used for COPD			
PHY-13	RUT NOVALIA RAHMAWATI SIANIPAR	Treatment Via Inhibition of Inflammatory			
		Rules			
		Virtual Screening Using Ensemble Docking			
PHY-14	RUT NOVALIA RAHMAWATI SIANIPAR	Approaches for The Inhibition of Arcangelisia			
F111-14		Flava Compounds to Janus Kinase-2 And			
		Cyclooxygenase-2			
	NURFARHANA MOHD MUSTAFFARIZAN	Nitrogen-Doped Porous Carbon (NDPC)			
PHY-15		Sorbents from Biomass for Carbon Dioxide			
		Capture			
	NURUL HUDA ABDUL HALIM	Removal of Rhodamine B Dye utilizing			
PHY-16		Graphene Oxide-Rubber Based Hydrogel as			
		an Alternative for Water Treatment			
		Co ₂ Removal Via Aqueous			
ANA-01 (P)	HIII IING CHAM	Methyldiethanolamine-			
ANA-OT (F)	HUI JING CHAM	Tetrabutylphosphonium P-Toluene Sulfonate			
		([MDEA]-[TBP][P-TSA]) Hybrid Solvent			
ANA-02 (P)	RAHMAT HIDAYAT	Cutting-Edge Electrodialysis Methods for			
AINA-02 (F)	NADIYAI DIDAYAI	Analytical Separation			
		Design, Synthesis and Mechanistic Studies of			
BIOCHEM-	MUHAMMAD AZRI FAIZ ABD ZAKI	Novel Benzimidazoles as A Novel Class of			
01 (P)		Therapuetics Against Drug-Resistant Oral			
		Cancer Cells			

		Synthesis, Characterization, and
	EJAZ HUSSAIN	Applications of Ambi-Functional
IND-01 (P)		PANI/GO/MOF-FE ₃ O ₄ Magnetic
		Nanocomposite for Removing Industrial Dye
		and Emerging Contaminant
1110 04 (D)		Activation of Persulfate by Zeolite Supported
INO-01 (P)	YIXUAN DUAN	CuO Catalysts for Phenol Degradation
	CHEAN HUI NG	Investigating The Potential of Prenylated and
		Geranylated Acylphloroglucinol-Based
ORG-01 (P)		Xanthenones as Potent Soybean 15-
		Lipoxygenase Inhibitors: A Combined <i>In Vitro</i>
		and In Silico Approach
	MR. MUHAMMAD MUJAHID	Palm Oil Mill Effluent (POME): Environmental
PHY- 01 (P)		Challenges and Exploring Sustainable
, ,		Applications for Eco-Friendly Solutions
DI IV 00 (5)	MR. KAMALADDEEN	Photoluminescence Studies on Zinc-
PHY-02 (P)	ABDULLAHI	Neodymium Layered Double Hydroxide

SCHEDULED OVERVIEW

	Time	Programme			
	0745 - 0855	Registration			
	0743 - 0033	Arrival of Guest & Participants			
	0900 - 0905	Welcome Address by Vice-Chairperson of ICYC 2024:			
	0300 0303	Ms. Nur Fatin Atikah binti Abdul Mutalib			
	0910 - 1010	Plenary Lecture:	Prof. Ts. Dr. Mohd Hafiz	Dzarfan Othman	
	0010 1010		(Ballroom)		
	1015 - 1045		Tea Break		
	1050 – 1055	Vi	deo Presentation (Ballro	om)	
		Oral Se	ssion – 1 (Ballroom & Sri	Perak 1-3)	
	ROOM	Sri Perak 1	Sri Perak 2	Sri Perak 3	
		KN-01	IV-01	BIOCHEM-01	
		KIN-01	INO-01	BIOCHEM-02	
	1100 – 1230	PHY-01	INO-02	ORG-01	
Day 1		PHY-02	INO-03	ORG-02	
		PHY-03	INO-04	ORG-03	
		PHY-04	INO-05	ORG-04	
	1235 – 1435	Lunch			
	1440 – 1455		Arrival of VIP		
		Opening ceremony,			
		<u>'</u>	WELCOMING SPEECH BY:		
		Chairman of 9 th ICYC 2024			
	1500 – 1600	- ChM. Ganapaty Manickavasagam			
			OFFICIATING SPEECH B		
		Dean	of School of Chemical So		
		- Prof. Dr. Rohana Adnan			

	1605 – 1900	High Tea (Ballroom)			
	0745 – 0855	Morning Tea Break			
	0900 – 1000	Plenary Lecture: Prof. Dr. Nicholas Brosse (Ballroom)			
		Oral Session – 2 (Ballroom & Sri Perak 1-3)			
	ROOM	Ballroom	Sri Perak 1	Sri Perak 2	Sri Perak 3
		KN-02	PHY-05	IV-02	IND-01
		KIV 02	PHY-06	ANA-01	IND-02
	1005 – 1135	INO-06	PHY-07	ANA-02	IND-03
		INO-07	IND-04	ANA-09	PHY-08
		-	ANA-18	ANA-02 (P)	-
		Oral Se	ession – 3 (Ballroo	om & Sri Perak 1-	-3)
	ROOM	Ballroom	Sri Perak 1	Sri Perak 2	Sri Perak 3
		KN-03	INO-08	ORG-05	PHY-09
	1135 – 1235	55	INO-09	ORG-06	PHY-10
		IV-03	INO-10	INO-12	INO-17
Day 2	1240 – 1410	Lunch			
Da		Oral Session – 4 and Poster Session – 1			
		(Ballroom & Sri Perak 1-3)			
	ROOM	Ballroom	Sri Perak 1	Sri Perak 2	Sri Perak 3
		KN-04	ANA-05	ANA-16	ORG-07
			ANA-06	PHY-11	ORG-08
		IND-05	ANA-07	PHY-14	ORG-09
		IND-06	INO-01 (P)	PHY-01(P)	ORG-10
	1415 – 1615	IND-07	ANA-01 (P)	PHY-02(P)	ORG-11
		ANA-08	IND-01 (P)	BIOCHEM	ORG-12
			, ,	-01 (P)	
		_	-	-	ORG-01
					(P)
	Oral Session and Poster – 5				
		(Ballroom & Sri Perak 1-3)			
	1620 – 1720	Ballroom Sri Perak 1 Sri Perak 2 Sri Perak 3			

		KN-05	BIOCHEM-04	INO-13	ANA-10	
			INO-11	INO-14	ANA-11	
		BIOCHEM-03	INO-16	INO-15	ANA-15	
	1725 – 1900	Tea Break				
Day 3	0755 - 0855	Morning Tea Break				
		Oral Session – 6 (Sri Perak 1-3)				
	ROOM	Sri Perak 1	Sri Perak	2 Sr	Sri Perak 3	
	0900 – 1100	KN-06	ANA-03	A	ANA-04	
			ANA-13	, A	ANA-12	
		PHY-12	PHY-13	, A	ANA-14	
		PHY-15	PHY-16	I	INO-18	
		-	-	P	ANA-17	
	1125 – 1235	Award presentation & Closing Ceremony (Ballroom)				
	1240 – 1400	Lunch				
	1400 – 2000	Excursion (Available as an add-on)				

Note: Oral presenters will be allotted a maximum of **15 min** to present including Q&A session.

Research Areas:

Analytical Chemistry (ANA)	Inorganic Chemistry (INO)
Biochemistry (BCHEM)	Organic Chemistry (ORG)
Industrial Chemistry (IND)	Physical Chemistry (PHY)