

PROGRAM ACS GII + ICCST7 (https://7thiccst2023.com/)

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	8 th DECEMBER 2023 (FRIDAY) Pre-Conference Workshop QM MM MD ML AI				
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	8.00 - 8.30	Workshop Registration / Overview Assoc. Prof. Dr. Vannajan S. Lee Quantum Information Science and Technology (QIST), UMCompChem, MolDesign, Universiti Malaya, Malaysia Quantum Calculation			
	8.30 - 9.45	Dr. Tang Wai Kit Quantum Information Science and Technology (QIST), UMCompChem, MolDesign, Universiti Malaya, Malaysia	LIM Computational Chamistry		
	0.45 10.00	Break	UM Computational Chemistry Lab		
	9.45 - 10.00	Molecular Dynamics Assoc. Prof. Dr. Thanyada Rungrotmongkol Chulalongkorn University, Thailand	BMK FD-L3-11 (New Chemistry Building)		
	12.30 - 13.30	Lunch / Friday Prayer	Compchem.um.edu.my		
	13.30 - 15.45	Machine Learning and Artificial Intelligence Assoc. Prof. Dr. Shirley Siu Macao Polytechnic University, China Dr. Jielu Yan University of Saint Joseph, Macau, China			
	15.45 - 16.00	Break			
	16.00 - 16.30 (We leave at 16.30 sharply)	Meeting Point: Universiti LRT Station (KJ19) @16.00 (Universiti LRT - Masjid Jamek LRT - KLCC LRT)	Masjid Jamek LRT Station Visiting an ancient Indian Muslim oldest mosque in Kuala Lumpur. KLCC LRT Station Shopping at Suria KLCC and Esplanade (Lake Symphony) is at 8, 9, 10 pm daily.		
	19.00 - 22.00	Meeting Point: KLCC Tower 2 @19.00 (Important Document Needed: Passport or IC)	Social Dinner Events (By invitation) Level 43, Seligi Chinese Pavilion Restaurant, Malayan Petroleum Club, KLCC		
	22.00-23.00	Meeting Point: KLCC Tower 2 @23.00 (KLCC LRT - Universiti LRT)	Back to Komune Living		

Locally organized by







9th DECEMBER 2023 (SATURDAY) ACSGii & ICCST7 Venue: Auditorium,

Connexion Event Convention Center (CECC) Bangsar South
Level 3A

Level 3A			
Emcee: Dr.Shameer Bin Hisham (Department of Chemistry, Universiti Malaya)			
8.00 - 8.30	Registration / Breakfast		
	Event Inauguration: National Anthem and Prayer		
	Welcome Remarks		
	Professor Dr. Yatimah Binti Alias		
8.30 - 8.40	Deputy Vice-Chancellor (Academic & International), Universiti Malaya		
	Dr. Sergio Nanita		
9.40 9.45	International Activity Chari - American Chemical Society (IAC - ACS, Zoom)		
8.40 - 8.45	Professor Dr. Zulgarnain Mohamed		
8.45 - 8.50	Dean, Faculty of Science, Universiti Malaya		
0.10 0.00	Professor Dr. Sithi V. Muniandy		
	ACS GII & ICCST7, Quantum Information Science and Technology (QIST)		
8.50- 8.55	Universiti Malaya		
	Event Launching / Group Photo Session		
	Session: Air Pollution and Environmental Chemistry		
	Chair: Professor Dr. Sithi V. Muniandy (Universiti Malaya)		
	Auditorium		
	Plenary 1: Prof. Emeritus Dato' Dr. Azizan Abu Samah		
	Institute of Ocean and Earth Sciences, Universiti Malaya, Malaysia		
9:15 - 9:45	Topic: Rare Earth Issues and air pollution in the Klang Valley		
	Plenary 2: Associate Professor Dr. Somporn Chantara		
	Department of Chemistry, Chiang Mai University, Thailand		
9.45 - 10.10	Topic: Air pollutions in Southeast Asia management, and research challenges		
	Mrs. Lorraine K.		
10 10 10 20	B.A.N.K. Coach and Trainer		
10.10- 10.20	Topic: Mindful Living: Clearing Mental Clutter for Better Communication		
10.20- 10.30	Break		
	Session: Computational Techniques		
	Chair: Dr. Wai Kit Tang (Universiti Malaya)		
	Auditorium		
	Plenary 3: Associate Professor Dr. Chi-Kit SIU Department of Chemistry, City University of Hong Kong, Hong Kong		
	Topic: Computational Modeling of Reaction Mechanisms of Hydrated Ion Clusters		
10.30 -11.00	toward Atmospheric Gas Molecules		
Plenary 4: Professor Dr. Türkan Haliloğlu			
	Department of Chemical Engineering, Boğaziçi University, Istanbul, Turkey		
11.00 - 11.30	Topic: Deciphering Allosteric Dynamics: Insights from Gaussian Network Analysis		
	Plenary 5: Professor Dr. Sun Choi		
	College of Pharmacy and Graduate School of Pharmaceutical Sciences, Ewha Womans		
14.00 40.00	University, Seoul-Korea		
11.30 – 12.00	Topic: Molecular Modeling and Artificial Intelligence (AI) assisted Drug Design, and their		
	Applications in Drug Discovery Invited Speaker 1: Professor Dr. Yoshi Kawazoe		
	Senior Research Fellow and Professor Emeritus, Tohoku University, Japan		
	Topic: Theory First: From explanation of experiments to a reliable theory to which		
12.00 - 12.15	experimentalists follow (Zoom)		
	Lunch & Poster Interactive Session		
12.15- 14.15	Lunch Venue: The Oak Room Bangsar Connexion		
	Poster Venue: Auditorium Foyer		

9 th DECEMBER 2023 (SATURDAY)
Application Session
Break Room

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ACSGII Break Room: Reflexion Material Modelling and Simulations Chair: Associate Professor Dr. Rozana Othman (Faculty of Pharmacy, Universiti Malaya)	ICCST7 Break Room: Auditorium Pharmaceutical Modelling and Simulations Chair: Dr. Chong Wei Lim (Faculty of Engineering, Universiti Malaya)
Assistant Professor Dr. Doan Quang-Van Head of Atmospheric Informatics & Modeling (AIM) Lab, Centre for Computational Sciences, University of Tsukuba, Japan Topic: Future Climate Prediction with High-	Invited Speaker 12: Dr. Fransiska Kurniawan School of Pharmacy, Bandung Institute of Technology, Indonesia Topic: Critical Issue in MD Simulation
Invited Speaker 3: Dr. Marzieh Yaeghoobi Sharoud University of Medicinal Sciences, Iran Topic: Air Quality Modelling	Invited Speaker 13: Professor ChM Dr. Mohd Basyaruddin Abdul Rahman University Putra Malaysia Topic: Biodegradable Calcium-based Metalorganic Frameworks as Nanodelivery of Active Molecules
Invited Speaker 4: Professor Dr. Thomas Lei University of Saint Joseph, Macao, China Topic: Application of ANN, XGBoost, and Other ML Methods to Forecast Air Quality in Macau	Invited Speaker 14: Professor Dr. rer. nat. apt. Sophi Damayanti School of Pharmacy, Bandung Institute of Technology, Indonesia Topic: The Role of Computational Chemistry in Developing Molecular Imprinted Polymer for Separation Method
Invited Speaker 5: Professor Dr. Lee-Wei Yang National Tsing Hua University, Taiwan Topic: Integration of on-target and systemic chemical fragments of old drugs in CADD to save the environment and lives	Invited Speaker 15: Associate Professor Dr. Hisashi Okumura Institute for Molecular Science, Japan Topic: Disease-related Protein Studied by Molecular Dynamics Simulations
Invited Speaker 6: Professor Dr. Juan Joon Ching NANOCAT, Universiti Malaya, Malaysia Topic: Removing Harmful VOC with Light Energy	Invited Speaker 16: Associate Professor Dr. Bimo Ario Tejo Universiti Putra Malaysia Topic: Challenges and Opportunities in Designing Drugs for Tuberculosis
Invited Speaker 7: Professor Dr. Darwin Barayang Putungan, Institute of Mathematical Sciences and Physics, University of the Philippines Los Baños, Title: Hydrogen Evolution Reaction on Bulk and 2D Materials: The Role of Surface Features and Structural Phase (Zoom)	Invited Speaker 17: Dr. Bilal Shaker Global Al Drug Discovery Center, College of Pharacy and Graduate School of Pharmaceutical Sciences, Ewha Womans University, Korea Topic: Identification of Positive Allosteric Modulators (PAMs) for the A1 Adenosine Receptor (A1AR) Using Pharmacophore Modeling and Molecular Dynamics Simulations: A Comprehensive Drug Discovery Approach
	Break Room: Reflexion Material Modelling and Simulations Chair: Associate Professor Dr. Rozana Othman (Faculty of Pharmacy, Universiti Malaya) Invited Speaker 2: Assistant Professor Dr. Doan Quang-Van Head of Atmospheric Informatics & Modeling (AIM) Lab, Centre for Computational Sciences, University of Tsukuba, Japan Topic: Future Climate Prediction with High- Performance omputer Invited Speaker 3: Dr. Marzieh Yaeghoobi Sharoud University of Medicinal Sciences, Iran Topic: Air Quality Modelling Invited Speaker 4: Professor Dr. Thomas Lei University of Saint Joseph, Macao, China Topic: Application of ANN, XGBoost, and Other ML Methods to Forecast Air Quality in Macau Invited Speaker 5: Professor Dr. Lee-Wei Yang National Tsing Hua University, Taiwan Topic: Integration of on-target and systemic chemical fragments of old drugs in CADD to save the environment and lives Invited Speaker 6: Professor Dr. Juan Joon Ching NANOCAT, Universiti Malaya, Malaysia Topic: Removing Harmful VOC with Light Energy Invited Speaker 7: Professor Dr. Darwin Barayang Putungan, Institute of Mathematical Sciences and Physics, University of the Philippines Los Baños, Title: Hydrogen Evolution Reaction on Bulk and 2D Materials: The Role of Surface

	ACSGII	ICCST7
	Break Room: Reflexion	Break Room: Auditorium
16.00 - 16.15	Chair: Dr. Vijayan Manickam Achari, Institute of Biological Science (ISB), Universiti Malaya Invited Speaker:8 Associate Professor Dr. Piyarat Nimmanpipug Chiang Mai University, Chiang Mai, Thailand Topic: Supramolecular Functional Materials Simulations for Sustainability	Chair: Professor Dr. rer. nat. apt. Sophi Damayanti I, School of Pharmacy, Bandung Institute of Technology, Indonesia Invited Speaker 18: Assistant Professor Dr. Satoru Itoh Institute for Molecular Science, Japan Topic: Generalized-ensemble Algorithms for Protein Oligomerization Processes
16.15 - 16.30	Invited Speaker 9: Associate Professor Dr. Yeoh Keat Hoe Jeffrey Sachs Centre on Sustainable Development, Sunway University Topic: Theoretical Screening of Single Transition Metal Atom Substitutional Doped on Monolayer Nb ₂ S ₂ C for Oxygen Reduction Reaction	Invited Speaker 19: Associate Professor Dr. Phornphimon Maitarad Shanghai University, China Topic: Comparative Study of Machine- Learning-Based QSAR Modeling of Anti- Inflammatory Compounds from Durian Extraction
16.30 - 16.45	Invited Speaker 10: Associate Professor Dr. Low Kah Hin Universiti Malaya, Malaysia Topic: Reinventing Waste Optical Discs Into Polycarbonate-based Adsorbents: Response Surface Methodology in Adsorption Study	Invited Speaker 20: Professor Dr. Supat Jiranusornkul Chiang Mai University, Chiang Mai, Thailand Topic: Multitarget Virtual Screening For Potential Herbal Substances Against Osteoporosis
16.45 - 17.00	Invited Speaker 11: Associate Professor Dr. Sarah Harris (Zoom) University of Leeds, United Kingdom Topic: Coase Grained FFEA	Invited Speaker 21: Dr. Jielu Yan University of Saint Joseph, Macau, China Topic: MBC-Attention: A Deep Learning Method For Predicting the Minimum Inhibitory Concentration of antimicrobial peptides against Escherichia coli using Multi- Branch-CNN and Attention
17.00 – 18.00 18.00 - 21.00	Chair: Professor Dr. Sithi V. Muniandy S. Lee (Universiti Malaya) Networking Session (Invited Guest) Venue: Reflexion • Asian Federal Medicinal Chemis • Blockchain in Computer Aided Medicinal Conference Dinner (The Oak Room Bangsa	etry (AFMC) Molecular Design CAMD
	Comercial Chine Car (Com Bangsar Commexical)	

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### HPC and New Trends Session *Auditorium* ### 8:30 - 9:00 Breakfast Chair: Dr. Siti Jariani Mohd. Jani	10 th DECEMBER 2023 (SUNDAY)			
8:30 - 9:00 Chair: Dr. Siti Jariani Mohd. Jani Department of Chemistry, Universiti Malaya Invited Speaker 22: Roslan Abdul Wahab Cofounder, SynergyLabs MY ICP.Hub Topic: Application of Blockchain to Air Pollution Data Gathering Invited Speaker 23: Associate Professor Dr. Liew Chee Sun Head of Data Intensive Computer Centre (DICC), Malaysia Topic: Facilitating Scientific Discovery using Advanced Computing Invited Speaker 24: Dr. Nurzatil Sharleeza Mat Jalaluddin Ex-officio Malaysia Open Science Alliance member Topic: Open Science for Impactful Research Invited Speaker 25: Professor Dr. Arry Yanuar Faculty of Pharmacy, Universitas Indonesia, Indonesia Topic: Computational Approach in Green Chemistry Plenary 6: Professor Dr. Andriyan Bayu Suksmono School of Electrical Engineering and Informatics, Bandung Institute of Technology, Indonesia Topic: An Introduction to the 2nd Quantum Revolution and Quantum Computing Invited Speaker 26: Dr. Nils Herrmann Quantum Brilliance Topic: Quantum Chemistry on NV-center based qubits in diamond (Zoom) 10.45 – 11.00 Chair: Dr. Choon Han Heh, Faculty of Pharmacy, Universiti Malaya Invited Speaker 27: Professor Dr. Moritz Mueller Swinburne University, Australia (Malaysia campus) Topic: The Power of Data Cubes in Earth Observation Invited Speaker 28: Associate Professor Dr. Davood Tofighi University of New Mexico, USA Topic: Impacts of Environmental Pollution on Public Health: A Critical Review (Zoom) Invited Speaker 29: Associate Professor Dr. Jane Gew Lai Ti Sunway University, Malaysia Topic: Towards Zero Single-Use Plastics: The Role of Chemistry Knowledge Invited Speaker 30: Professor Dr. U Deva Priyakumar Centre for Computational Natural Sciences and Bioinformatics, International Institute of Information Technology, CCNSB, IIT Campus, Gachibowli, Hyderabad, India Topic: Impact of Al/ML in Healthcare: Screening, Disposis and Prognosis Invited Speaker 32: Dr. Yasmin Binti Shamsudin Uppsala University, Sweden				
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	40.45 45 55			
12.15 - 12.30 Topic: Going Green- Computer-Aided Engineering of Green Fluorescent Proteins	12.15 - 12.30			
Closing Ceremony Chair: Associate Professor Dr. Woi Pei Meng. Universiti Malaya				
Kureka MakerSpace@UM Al awards				
12.15 -12.45 ACS Social Media Master Award	12.15 -12.45	ACS Social Media Master Award		
ACS Poster awards winner				
12.45-14.30 Lunch (The Oak Room Bangsar Connexion)	12.45-14.30			
14.30-15.30 ACS UM Student Get Together Venue: Reflexion				
15.30-22.00 Excursion: Firefly Sanctuary Meeting Point: Komune Living @15.30	15.30-22.00			
(Prebooking at Reception: The bus leaves at 16.00 sharply)				