

The SGU (ChBE) – NUS (ChBE) Workshop

Date: 31st January-1st February, 2024

Locations: EA-02-11, **9 Engineering Drive 1**, Singapore 117575 (31st January)
1 Engineering Drive 3, Blk E8, Singapore 117580 (1st February)

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Sunday

30th Jan. Arrival in Singapore

Monday

31st Jan. **EA-02-11**
9 Engineering Drive 1, Singapore 117575

9:00-9:10	Prof. Saif Khan (HOD)	Welcome Remark & Introduction of ChBE
9:10-9:20	Prof. Jungwook Kim (HOD)	Introduction of ChBE at SGU
9:20-9:35	Prof. Saif Khan	Accelerating Materials Development with Microfluidics, Advanced Imaging and Machine Learning
9:35-9:50	Prof. Jungwook Kim	Nanogels for injectable hydrogels
9:50-10:05	Prof. Yiliang LIN	Material-Microbe Biohybrids with Bio-Interface Design for Sustainable Applications
10:05-10:20	Prof. Hyeong Jun Kim	Low voltage electrostatic clutches for electrically switchable stiffness
10:20-10:40	Coffee Break	EA-02-Foyer (Foyer at EA level 2)
10:40-10:55	Prof. Zhe WU	Machine learning in accelerating chemical discovery and process optimization
10:55-11:10	Prof. Taewook Kang	Visualizing large scale biological gas conversion process in real-time
11:10-11:25	Prof. Lanry Yung Lin Yue	Robust Self-Contained DNA Circuit Design for Biosensing
11:25-11:40	Prof. Jeyoung Park	Sustainable Plastics in Packaging: Embracing Biodegradable Polyesters and Cellulose
11:40-14:00	Lunch	Staff Lounge 2 (E4-05-52)

14:00-14:15	Prof. Siow Ling SOH	Nonequilibrium separation and transport of charge at polymer interfaces
14:15-14:30	Prof. Jaegeon Ryu	Interface Adhesive for Battery Electrodes
14:30-14:45	Prof. Sui ZHANG	Towards ultrathin membranes for carbon capture
14:45-15:00	Prof. Jong Suk Lee	Defect engineering of porous coordination polymers for gas separation
15:00-15:20	Coffee Break	EA-02-Foyer (Foyer at EA level 2)
15:20-15:35	Prof. LEONG Tai Wei David	Nanomaterials induced Endothelial Leakiness
15:35-15:50	Prof. Moon Sung Kang	Patterning Quantum Dot Pixels with Light
15:50-16:05	Prof. Jianping Xie	Total Synthesis of Metallic Molecules
16:05-16:20	Prof. Seoin Back	AI for catalysis
16:20-16:35	Prof. Yanwei LUM	Understanding the mechanisms of electrocatalytic CO ₂ reduction
16:35-16:45		Concluding Remark
18:30	Dinner	TBD

Tuesday

1st Feb. 1 Engineering Drive 3, Blk E8, Singapore 117580

	Lab Tour	Lab Contact
9:00-9:15	Prof. Yanwei Lum	e0974089@u.nus.edu; Bo Wu,
9:15-9:30	Prof. Sui Zhang	guangcheng@u.nus.edu; Guangcheng Wu, 06-01
9:30-9:45	Prof. Jianping Xie	zhangbh@nus.edu.sg; Bihan Zhang, 04-03
9:45-10:00	Prof. Lei Wang	wanglei8@nus.edu.sg; Prof. Wang, 05-06
10:00-10:15	Prof. Dan Zhao	yidanduan@u.nus.edu; Yidan Duan, 05-15
10:15-10:30	Prof. Andrew B. Wong	chaolongwei@u.nus.edu; Chaolong Wei, 03-09
10:30-10:45	Prof. Ning Yan	haoyueli@u.nus.edu; Haoyue Li, first floor
10:45-11:00	Prof. Zhiqun Lin	m.zhang@nus.edu.sg; Mingyue Zhang, 04-08

12:00-13:30 Lunch TBD
