

WIN-NCKU Workshop in Nanotechnology – Agenda

Tuesday 28 August 2018

TIME	SCHEDULE	LOCATION
8h35 – 9h00	Official Opening of Workshop	QNC 1501
8h35 – 8h40	John Thompson, Vice President University Research	
8h40 – 8h45	David Clausi, Associate Dean of Research and External Partnerships, Faculty of Engineering	
8h45 – 8h50	Sushanta Mitra, Executive Director, Waterloo Institute for Nanotechnology	
8h50 – 8h55	In-Gann Chen, Director, Centre for Micro/Nano Science & Technology, NCKU	
8h55 – 9h00	Jonathan Shieh, Director, Taipei Economic & Cultural Office (TECO)	
	<i>Technical Session 1: Nanomedicine, Targeted Drug Delivery & Regenerative Therapies (Chair: Lisa Pokrajac)</i>	
9h00 – 9h20	Wu-Chou Su (NCKU_CAN), Targeting NRP1-expression cells with DG2-PLGA-Stat3i Nanoparticles in Lung Cancer	
9h20 – 9h40	Shawn Wettig (WIN-Pharm), Novel surfactant use in drug delivery applications	
9h40 – 10h00	Sloan Tsung-Lun Tsai (NCKU_CAN), CT/MRI dual imaging FePt nanoparticles for radiotherapy resistance	
10h00 – 10h20	Juewen Liu (WIN-Chem), Highly sensitive & selective detection of metal ions using catalytic DNA	
10h20 – 10h35	Break	QNC 1501
	<i>Technical Session 1: Nanomedicine, Targeted Drug Delivery & Regenerative Therapies (continued) (Chair: Wu-Chou Su)</i>	
10h35 – 10h55	Ming-Jer Tang (NCKU-iWRR), Mechanobiology of chronic renal fibrosis: fibrosis as the real cause of renal failure	
10h55 – 11h15	Ting Tsui (WIN-ChE), Novel nanocomposites for cell manipulation and behaviours	
11h15 – 11h35	Chia-Ching (Josh) Wu (NCKU-CMNST & iWRR), Material and cellular interface for peripheral nerve regeneration	
11h35 – 11h55	Zoya Leonenko (WIN-Phys/Bio), Molecular mechanism of Alzheimer's disease	
11h55 – 13h35	Poster Session	QNC 1501
	<i>Technical Session 2: Optoelectronics & Nanomaterials (Chair: Oleg Stukalov)</i>	
13h35 – 13h55	In-Gann Chen (NCKU-CMNST), Advanced Nano Inspection Techniques in CMNST	
13h55 – 14h15	Irene Goldthorpe (WIN-ECE), Silver nanowire networks	
14h15 – 14h35	Na Young Kim (WIN-ECE),	
	<i>Technical Session 3: Medical Imaging & Diagnostic Devices (Chair: Oleg Stukalov)</i>	
14h35 – 14h55	Dar-Bin Shieh (NCKU-CAN), Cross discipline innovations for advanced disease management	
14h55 – 15h15	Karim Karim (WIN-ECE),	

15h15 – 15h35	Carolyn Ren (WIN-MME), Droplet microfluidics for high throughput screening – fundamentals and applications	
15h35 – 15h50	Break	QNC 1501
	<i>Technical Session 3: Medical Imaging & Diagnostic Devices (continued) (Chair: Ming-Jer Tang)</i>	
15h50 – 16h10	Allen Wei-Lun Huang (NCKU_CAN), Medical imaging & diagnostic development at CAN	
16h10 – 16h30	John Yeow (WIN-SDE), Micro/nanodevices for imaging & sensing applications	
16h30 – 16h50	Alfred Yu (WIN-ECE), Medical ultrasound for biophysical dynamics of sonoporation	
16h50 – 17h10	Vassili Karanassios (WIN-Chem), Connected devices & Internet of Things (IoT) for digital health diagnostics	
17h10 – 17h30	Melanie Campbell (WIN-Phys), Retinal imaging for diagnostics for neurodegenerative diseases	
17h30 – 17h40	Closing Remarks	QNC Atrium

Acronyms

CMNST: Center for Micro/Nano Science & Technology

CAN: Centre for Applied Nanomedicine

iWRR: International Center for Wound Repair & Regeneration

Bio: Department of Biology

ChE: Department of Chemical Engineering

Chem: Department of Chemistry

ECE: Department of Electrical & Computer Engineering

MME: Department of Mechanical & Mechatronics Engineering

Phys: Department of Physics & Astronomy

SDE: Department of Systems Design Engineering