

Tuesday 30 October 2018

8:45 – 9:25 Registration

9:30 – 14:00 Business Matching Workshop – Colombo Theatre LG01 (UNSW Map Ref. B16)

9:30 – 9:35 Opening address – Warwick Dawson, Director Knowledge Exchange	
9:35 – 10:20 Session 1: Digital, Health and Biotech	
9:35 – 9:40 Prof. William Walsh	UNSW Research Matters: Research/Design/Development = Clinical Impact
9:40 – 9:45 Prof. Ewa Goldys	TBC
9:45 – 9:50 Prof. Mark Wilcox	Antimicrobial Surfaces - from Laboratory to Clinical Trials
9:50 – 9:55 Prof. Chris Heeschen	Novel Technology Platforms for Precision Medicine Approaches
9:55 – 10:00 Scientia Professor Xuemin Lin	Big Graph Processing: Applications, Challenges, and Advances
10:00 – 10:05 A/Prof. Tomasz Bednarz	Expanded Perception and Interaction - Visual Analytics, Simulations and AI
10:05 – 10:10 Prof. Sisi Zlatanova	Use of Voxels for 3D Precinct Modelling
10:10 – 10:15 A/Prof. Vinayak Dixit	Title TBC
10:15 – 11:15 Q & A and Networking	
11:15 – 11:35 Morning tea	
11:35 – 12:20 Session 2 Materials, Energy and Environment	
11:35 – 11:40 Professor John Fletcher	Power Electronics for Energy Systems
11:40 – 11:45 Professor Cheemun Chong	Progress of Crystalline Silicon Solar Cells
11:45 – 11:50 A/Prof. Renate Egan	Data for Smart Energy Decisions - Integrating Residential Rooftop Solar into the Grid
11:50 – 11:55 A/Prof. Bram Hoex	Enabling Low-Cost High-Efficiency Solar Cells Using Nano-Scale Atomic Layer Deposited Films
11:50 – 11:55 Professor Michael Ashley	Remote Power and Communications for the High Antarctic Plateau
11:55 – 12:00 Prof. Liming Dai	Multidimensional Carbon Materials for Multifunctional Applications
12:00 – 12:05 Prof. Per Zetterlund	Electrically Conductive Polymer/Graphene Films via Sustainable Technology
12:05 – 12:10 A/Prof. Dawei Wang	Safe and Reliable Ion-type Lithium-Sulfur Battery
12:10 – 13:10 Q & A and Networking	
13:10 – 14:00 Lunch	



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Wednesday 31 October 2018

8:45 Registration Open

9:30 – 16:00 Plenary sessions, Colombo Theatre LG05 (UNSW Map Ref. B16)

Time	Speaker	Speech Title
0930-0945	Welcome Address, Mr Laurie Pearcey, PVC-International	
0945-1025	Veena Sahajwalla	Microfactory Technologies – Transforming Waste into Value-added Materials and Products
1025-1105	David Waite	UNSW Centre for Transformational Environmental Technologies (CTET) - an Exciting Venture in Technology Translation
1105-1135 Morning Tea + Networking + Poster		
1135-1215	Deo Prasad	Low Carbon Buildings and Cities
1215-1255	Ross Buckley	How China is Leading the World in Data-driven Finance and FinTech
1255-1400 Lunch Break + Poster		
1400-1440	Justin Gooding	From Ultrasensitive to Single Molecule Biosensors
1440-1520	Perminder Sachdev	Healthy Ageing and the Prevention of Dementia: Research at the Centre for Healthy brain Ageing
1520-1600 Afternoon Tea + Networking + Poster		
1800-2200 Gala Dinner, Tyree Room		

10:30 – 13:00 UNSW-Huawei Smart Campus Roundtable, Committee Room 4, Chancellery (UNSW Map Ref. C22) – By Invitation Only



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Thursday 1 November 2018

8:45 Registration Open

9:30 – 14:00 Plenary sessions, Colombo Theatre LG05 (UNSW Map Ref. B16)

Time	Speaker	Speech Title
0930-1010	Martin Green	Photovoltaic Solar Research and Education at UNSW Sydney
1010-1050	Chunhui Wang	Multifunctional structures, sensors and devices
1050-1120 Morning Tea + Networking + Posters		
1120-1200	Nigel Lovell	Bionic Eyes and Telehealth Systems: Tales of Translation in Biomedical Engineering at UNSW
1200-1240	Joe Dong	Towards AI and data driven new energy systems
1240-1250	Closing Remarks	
1250-1400 Lunch Break + Poster		



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Poster Sessions, Wednesday 31 October – Thursday 1 November, Colombo Theatre LG01 (UNSW Map Ref. B16)

No.	Title	Poster Title(EN)	Poster Title (CN)
1	A/Prof. Bram Hoex	Enabling low-cost high-efficiency solar cells using nano-scale atomic layer deposited films	面向低成本高效太阳能电池的原子层沉积纳米级薄膜技术
2	Prof. Chee Mun Chong	Progress of Crystalline Silicon Solar Cells	晶体硅太阳能电池研发进展
3	Dr. Da-wei Wang	Safe and Reliable Ion-type Lithium-Sulfur Battery	安全可靠的离子型锂硫电池
4	Prof. John Fletcher	Power electronics for energy systems	能源系统的电力电子学
5	A/Prof. Rob Taylor Dr Qiyuan Li	A water distillation system powered by air conditioner waste heat	一个由空调废热驱动的膜蒸馏系统
6	Dr. Weicong Kong	A Smarter Electricity Meter Infrastructure with Non-Intrusive Load Monitoring Technology	具备非侵入式负荷分析功能的下一代智能电表体系
7	Dr. Xuefei Liu	Direct Access to Optimisation of Membrane Systems Design: Application of Computation Numerical Simulation Techniques	膜系统优化设计直通车：计算机模拟技术的应用
8	Dr. Xuefei Liu	Application of CFD modelling techniques in optimisation of aeration system design for Membrane Bioreactors (MBRs)	运用计算流体力学模拟技术辅助优化膜生物反应器的曝气系统设计
9	Dr. Xuefei Liu	Fatigue analysis of hollow fibre membranes in MBRs through numerical simulation	计算数值模拟预测膜生物反应器中膜丝疲劳度及使用寿命
10	Scientia Professor Bernard Balleine	TBC	敬请期待.....
11	Prof. Fiona Stapleton	Biomarkers in Dry Eye Disease	敬请期待.....
12	Dr. Guozhen Liu	Field-deployable device for detection of nucleic acids	可实地应用的核酸检测装置



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13	Dr. Guozhen Liu	A device for in vivo real time detection	可用于体内实时监测的一种装置
14	Dr. Guozhen Liu	Paper based test strips for insulin	胰岛素试纸测试
15	A/Prof. Julien Epps	Automatic emotion, mental state and task analysis for wearable computing	可自动分析表情、大脑状态以及任务分析的穿戴设备的计算
16	Prof. Kaarin Anstey	TBC	敬请期待.....
17	Dr. Maitreyee Roy	Examining New Ways of Visualising Tear Film Lipids Using Quantum Dots	采用量子点测试可视化泪膜脂质的新方法
18	Dr. Peter R. Wich	Biopolymer-based Nanomaterials for Applications in Drug Delivery, Immunotherapy and Catalysis	基于生物高分子的纳米材料在药物输送、免疫疗法和催化中的应用
19	Dr. Renxun Chen	Antimicrobial Coating Technologies for Biomedical and Food Safety Applications	灭菌涂层技术 – 生物医学和食品安全的应用
20	Dr. Sophia Gu	An active nanocarrier - amplified therapeutic effect of anti-cancer drug for more efficient and safe cancer treatment	活性纳米载体 - 帮助放大抗癌药物治疗效果, 从而更有效和安全地治疗癌症
21	Dr. Sophia Gu	Dual mode magnetic resonance imaging (MRI) contrast agent for accurate tumour detection	用于精准肿瘤检测的双模核磁共振(MRI)造影剂
22	A/Prof. Tracie Barber	Engineering arterial flows for personalized medicine	用于个人医疗的动脉流动工程学
23	Dr. Wei Deng	Controlled gene and drug release from a liposomal delivery platform triggered by low dose X-ray radiation	低剂量 X 射线激发的脂质体可控药物/基因释放
24	Dr. Bin (Ryan) Zhu	Fault tolerant motor drive of open-end winding permanent magnet synchronous machine	开绕组永磁同步电机容错驱动



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25	Prof. Michael Ashley	Highly reliable control systems for the high Antarctic plateau	高度可靠的南極高原高原控制系統
26	A/Prof. Vinayak Dixit	TBC	敬请期待.....
27	Dr. Weixing Xu Scientia Professor Liangchi Zhang	A novel lead-free solder for green electronic packaging	新型高性能无铅焊接材料
28	Dr. Weixing Xu Scientia Professor Liangchi Zhang	A high performance porous Ti-based nanocomposite for hip joint prostheses	人工关节用高性能钛基多孔材料
29	Professor Jay Kruzic	Structural Materials for Challenging Applications: Preventing and Predicting Failures	用于挑战性应用的结构材料: 失效的预防和预估



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Friday 2 November 2018

Guided Facility Tours (by Registration only)

- [Mark Wainwright Analytical Centre](#) 马克·维恩莱特分析中心
- [Solar Industrial Research Facility](#) 太阳能产业研究中心
- [Michael Crouch Innovation Centre](#) 麦克·克劳奇创新中心
- [Expanded Perception & Interaction Centre](#) 知觉延伸与互动中心
- [ARC Training Centre for Automated Manufacture of Advanced Composites](#) 澳大利亚研究理事会先进复合材料的自动化制造培训中心
- [City Analytics Lab](#) 城市规划设计分析实验室



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