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International Conference on Advancements in Engineering Education (iCAEED-2019) 24-28 Nov 2019 Sydney, Australia

5th GCSTMR World Congress

Western Sydney University, Parramatta South Campus, Sydney, Australia

[Corner of Victoria Road and James Ruse Drive (enter via Victoria Road), Parramatta]

Organised by:

School of Computing, Engineering and Mathematics

Western Sydney University

and

Global Circle for Scientific, Technological and Management Research (GCSTMR)

Time	Event	Remark
6:00 - 8:00 pm	Registration, Refreshments and	Conference General Chair: Prof Ataur Rahman
	Networking	Conference Chairs:
	(Room EA.G.32)	Prof Yang Xiang
	(1100111 27 110102)	Prof Richard Yang
		A/Prof Mahmood Nagrial
		Prof Gu Fang
		Conference Co-Chairs:
		A/Prof Ming Zhao
		Dr Rafiqul Islam
		A/Prof Surendra Shrestha
		A/Prof Olivia Mirza
		A/Prof Sarah Zhang
		A/Prof Bahman Javadi
		Conference Secretaries:
		Dr Ranjith Liyanapathirana
		Dr Rezaul Bashar
		Dr Ee Loon Tan
		Dr Leo Zhang
		Co-Secretary:
		Mr Balbir Singh
		Catering:
		Dr Hasan Rahman
		Exhibition Area:
		Dr Tosin Famakinwa
		IT Services:
		Dr Rezaul Bashar
		Conference Management Coordinator:
		Ms Jenis Islam

Time	Session	
8:00 – 9:00 am	Registration Parramatta South Campus, Building EA Room EB.G.02 Desk in-charge: Ms Jenis Islam	
9:00 – 9:30 am	Conference Opening Room EA.G.18, Parramatta South Campus Moderator: Prof Ataur Rahman, Chair, GCSTMR Acknowledgement of Indigenous owners of the land: Prof Ataur Rahman Opening: Professor Denise Kirkpatrick, Acting Vice-Chancellor, Western Sydney University Speech: The Lord Mayor, Parramatta City Council Speech: Prof Deborah Sweeney, Deputy Vice-Chancellor and Vice-President, Western Sydney University Speech: Prof Deborah Sweeney, Deputy Vice-Chancellor and Vice-President, Western Sydney University Speech: Prof Simeon Simoff, Dean, SCEM, Western Sydney University Speech: Prof Simeon Simoff, Dean, SCEM, Western Sydney University Speech: Prof Yang Xiang, Chair (iCAEED) Speech: Prof Richard Yang, Chair (iCMMERP) Speech: A/Prof Mahmood Nagrial, Chair (iCEERP) Speech: A/Prof Bahman Javadi, Chair (iCIOTRP) Housekeeping: Prof Ataur Rahman	
9.30-10.00 am	Plenary Session 1- Chair: Prof Yang Xiang (Room EA.G.18)	
9.30-10.00 am	Plenary 1: Advanced Technologies to Engineering a Better Sustainable World, Dr Marlene Kanga, President, World Federation of Engineering Organisations (WFEO), UK	
10:00 –10:30 am	Panel Discussion – Sustainability in Education, Moderator A/Prof Sarah Zhang (Room EA.G.18)	
10:30-11:00 am	Morning Tea (Room EB.G.02)	
	DPAE	

11:00 am-12:30pm	Plenary Session 2 - Chair: A/Prof Bahman Javadi and Prof Richard Yang (Room EA.G.18)
11:00-11:30	Plenary 2: Micro-service for the convergence of IT technologies, Prof Massino Vallari, University of Messina, Italy
11:30-12:00	Plenary 3: Electrical Engineering and Tensors, Prof Godfrey Lucas, Former Dean of Engineering, Western Sydney University, Australia
12:00-12:30	Plenary 4: Augmenting Laboratories: improved linking of theory and reality, Prof David Lowe, The University of Sydney, Australia
12:30 -1:30 pm	Lunch (Room EA.G.02)
1:30-3:00 pm	Plenary Session 2 – Chair: A/Prof Mahmood Nagrial (Room EA.G.18)
1:30-2:00	Plenary 5: Blockchain for the Internet of Things: Challenges and Solutions , Prof Salil Kanhere, University of New South Wales, Sydney, Australia
2:00 - 2:30	Keynote 1: Power System Planning: The Art of Raising a Phoenix Dr Nalin Pahalawaththa, Senior Technical Director, Power Systems, GHD Pty Ltd, Australia
2:30 -3:00	Keynote 2: Emerging trends in communications: 5G and beyond, Dr Nikhil Sharma, LNMIIT, India
3:00 -3.30 pm	Afternoon Tea (Room EA.G.02)
3:30 – 5:00 pm	Plenary Session 3 – Chair: A/Prof Surendra Shrestha and A/Prof Sarah Zhang (Room EA.G.18)
3:30 - 4:00	Plenary 6: Curriculum Innovation of Undergraduate Engineering Courses: A Practice on Sustainability Embedment, Prof Richard Yang, Western Sydney University, Australia
4:00-4:30	Keynote 3: Engineering Education in Bangladesh , Prof Muhammed Alamgir, University Grants Commission, Bangladesh
4:30-5:00	Plenary 7: Fusion Bonding and Consolidation of 3D Printed Continuous Carbon Fibre Reinforced Polyamide Composites, Prof Lin Ye, The University of Sydney, Australia
5:00 -5:30	Keynote 4: Nonlinear behaviours of wave-induced fluid oscillations in the gap between two fixed barges, Prof Lin Lu, Dalian University of Technology, China

Day 3 – Tuesday 26 Nov 2019

Time	Session	
8:00 – 9:00 am	Registration, Parramatta South Campus (Room EA.G.02)	
9:00-10:30 am	iCAEED 2019: Education paper Session 1 (Room-EB.G.35) Chair: Assoc Prof Sarah Zhang	
9:00 – 9:30	Keynote: Engineering Education in Australia : Current Trends Prof Roger Hadgraft, University of Technology Sydney, Australia	
9:30 – 9:50	First year in the university: A case study in Sydney, Australia (19) [Sumya Rahman, Sahir Mahmud, Tarek Rahman, Kamal Mahmud and Ataur Rahman]	
9:50 – 10:10	From Research to Learning and Teaching: Reflection on Experience with Postgraduate Students (9) [Quang Vinh Nguyen and Surendra Shrestha]	
10:10-10:30	Civil Engineering Curriculum Reform: Balance among Employability, Innovation and Academic View (2) [Li Jing and Ji Jing]	
10:30 – 11:00 am	Morning Tea (Room EA.G.02)	
11:00 am–12:20 pm	iCAEED 2019: Education paper 2 (Room-EB.G.35) Chair: Assoc Prof Olivia Mirza	
11:00-11:30	Comparative Study on the Civil Engineering Education in Australia and China (11) [Yx Zhang and Lei Zhang]	
11:30-11:50	Exploration and Practice on Cultivation of Internationalized Talents of Civil Engineering Based on English-Taught Major Development (10) [Jing Ji, Ying Liu, Chaolu Zhuang, Jing Li and Jianrong Pan]	
11:50-12:10	Gender equality in the Australian engineering industry and the recommendation for progressive industrial change to represent and retain women in the industry (3) [Danielle Kirby and Olivia Mirza]	
12:10-12:30	Implementation of Student-focused Pedagogical Approach for Improving Engineering Student Satisfaction (1) [Susanna Lin]	
12:30-1:30 pm	Lunch (Room EA.G.02)	
1:30-3:00 pm	iCAEED 2019: Technical Session 1 (Room-EB.G.35) Chair: Assoc Prof Surendra Shrestha	
1:30-1:50	Trends in annual maximum and minimum temperature data in New South Wales, Australia (15) [Orpita Urmi Laz and Ataur Rahman]	

1:50-2:10	A Scoping Review of Solar Stills Technology for Drinking Water Production (16) [Elizabeth Myina Nomor, Rafiqul Islam and Ataur Rahman]	
2:10-2:30	Design and experimentation of Permeable Pavement Systems at Western Sydney University (7) [Upeka Kuruppu, Ataur Rahman and Arumugam Sathasivan]	
2:30-2:50	Sydney Metro Northwest Viaduct Type 1 Track Slab (5) [Thy Pham]	
3:00-3:30 pm	Afternoon Tea (Room EA.G.02)	
3:30-5:00 pm	iCAEED 2019: Technical Session 2 (Room-EB.G.35) Chair: Dr Ragbir Bhathal	
3:30-3:50	A preliminary study of light pollution in Sydney and the surrounding suburbs (20) [Eresha Chandrathilake and Ragbir Bhathal]	
3:50-4:10	Flood Data Preparation in Eastern Australia: A Project Based Learning Exercise (8) [Laura Rima, Abhishek Gurung, Khaled Haddad and Ataur Rahman]	
4:10-4:30	Study on Steel-Concrete Composite Structure Incorporating BubbleDeck Slab (24) [Rahul Varma, Ee Loon Tan and Balbir Singh]	
4:30-4:50	Addressing the Sustainable Development Goals: Roof Harvested Rainwater use in Household & Village Agriculture for increased nutrition and education in Developing Nations: A case study of a Kenyan Orphanage (22) [Caleb Amos, Ataur Rahman, Fazlul Karim and John Gathenya]	
7:30 – 9:30 pm	CONFERENCE DINNER (For the CONFERENCE DINNER ticket holders)	

Day 4: Wednesday 27 Nov 2019

Time	Event	
	Registration	
8:00 - 9:00	Parramatta South Campus, Building EA	
	Room EA.G.02	
9:00-10:30	iCAEED 2019: Education paper 3 (Room-EB.G.35)	
	Chair: Dr Baki Billah	
9:00-9:30	Plenary: Neuromorphic Engineering and Intelligent Sensors,	
	Prof Andre van Schaik, Director,	
	International Centre for Neuromorphic Systems (ICNS), Sydney,	
	Australia	
9:30-9:50	Art of teaching biostatistics – a case study from Monash University (21)	
	[Md Baki Billah]	
9:50-10:10	Life style, its elements and their universal relevance to wellbeing	
	(30) [Vojislav Ilic]	

10:10-10:30	Understanding the General Framework for Teaching Semantics and	
	Syntaxes of Visual Languages to Computer Education Students	
	Based on a Notion of Abstract Visual Syntax Graphs (13) [Nicholas	
	Ude Eze and Samuel Onyekaozulu Aniobi]	
10:30-11:00 am	Morning Tea (Room EA.G.02)	
11:00 - 12:30	iCAEED 2019: Education paper 4 (Room-EB.G.35)	
	Chair: Dr Ee loon Tan	
	Incorporating Sustainability Aspects in Teaching of Fluid	
11:00-11:30	Mechanics: A Case Study in Western Sydney University, Australia	
	(17) [Ataur Rahman, Rafiqul Islam and Jenis Islam]	
11:30-11:50	Research-based education for industrial development: Experiences	
	of Kathmandu University in turbine technology (4) [Biraj Singh	
	Thapa, Bhola Thapa, Ole Gunnar Dahlhaug and Surendra Shrestha]	
11:50-12:10	Student- centred approach: understanding engineering students	
	from disadvantaged backgrounds (14) [Marina Belkina]	
12:10-12:30	Multidisciplinary Student-Led Project-Based Learning in	
	Engineering (18) [Ali Hellany, Mahmood Nagrial and Jamal Rizk]	
12:30-1:30 pm	Lunch (Room EA.G.02)	
1.20 2.50		
1:20 – 2:50	iCAEED2019: Education paper 5 (Room-EB.G.35)	
1.20 1.40	Chair: Assoc Prof Olivia Mirza	
1:20-1:40	Girls in STEM: Building the future (25) [Olivia Mirza, Deslie Jameson	
1:40-2:00	and Alicja Knedl] Comparison of Bachelor of Civil Engineering Curriculum of Khulna	
1.40-2.00	University of Engineering & Technology and Western Sydney	
	University (27) [Kazi Abm Mohiuddin, Quazi Sazzad Hossain and	
	Ataur Rahman]	
2:00-2:20	PARTNERSHIP PEDAGOGY PATHWAYS FOR THE FIRE PROTECTION	
2.00 2.20	INDUSTRY INTO MAINSTREAM POST-GRADUATE PROGRAMS (31)	
	[Swapan Saha]	
2:20-2:40	Addressing The Future Imbalance of Gender Diversity In Engineering	
	Caused By Misconception: Observations Of A Female Millennial Engineer	
	In The Civil Space (26) [Adriana Assey Assey]	
2:40-3:00	Study of 1st Year Engineering Pathway Programs at WSU: Diverse	
	Learners (12) [Benjamin Kelley, Chunhui Yang and Ragbir Bhathal]	
3:00-3:30 pm	Afternoon Tea (Room EA.G.02)	
	iCAEED 2019: Education/Technical Session 3 (Room-EB.G.35)	
3:30-5:00	Chair: Dr Md Abdul Alim	
3:30-3:50	A Young Engineers Perspective on the Construction Industry (28)	
	[Yiana Pallis]	
3:50-4:10	A Review of Rainwater Harvesting in South East Asia (23) [Que	
	Thanh Trinh, Ataur Rahman and Md Abdul Alim]	

4:10-4:30	Rainwater harvesting for drinking purposes in rural areas: A case study in Western Sydney (29) [Md Abdul Alim]
4:30-4:50	ТВА
4:50 - 5:00	ТВА
5:00-5:30	Conference Closing and Awards (Room EA.G.18)

Day 5: Thursday 28 Nov 2019: Sight Seeing

Sight Seeing	Eligibility	Remark
10:00 am to 4:00 pm	Who have registered and paid for the sight visit. Contact: <i>Ms Jenis Islam</i> (<i>jenisislam04@gmail.com</i>)	The bus will depart from Western Sydney Parramatta South Campus (Bus loop in front of Building EA) at 10:00 am and return the delegates to Western Sydney Parramatta South Campus at 4:00 pm ■

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