

WEC 2019 Poster Listing

Subject to change. Current as at 10 October 2019.

Paper ID	Poster Title	Author Full Name	Theme and Subtheme
1	New Engine Technology - "air-sealing"	Colin Young	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
296	Mechanical Response of Enzyme Stabilized Soil	Sujeeva Setunge	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
340	Innovations in management of critical water pipeline infrastructure	Jayantha Kodikara	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
374	A Novel Electric Vehicle Charge Booking System in a PV Microgrid	Scott Watts	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
478	Systems Engineering Approach To Selection of BMSMR for Power Generation and Desalination	Erick Ohaga	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
498	Reliability testing on existing electrical equipment	Baoying Tong	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
532	Challenging Traditional Engineering Approaches to Drive Sustainable Energy Systems	Willem Hanekom	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
655	Borroloola water treatment plant... the containerised story	Eric Vanweydeveld	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Innovation and disruption)
26	Assessment Of Gap Actuated Push Button Signal By Using Traffic Simulation Model	Mohsin Sarker	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Modelling and simulation)
664	A method for the simulation and optimisation of CAD based behavioural models in Simulink	Dael Liddicoat	Theme 1: How new technology and innovations are reshaping engineering (SDG 1, 6, 7, 9, 12, 13, 14, 15) (Modelling and simulation)
144	Experimental investigation of hydro fluoro ether-charged pulsating heat pipes for LED lightings	Shigemasa Yamagami	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Engineering a sustainable future (population growth, biodiversity, ecosystems))

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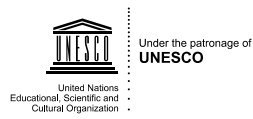


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187	A case study of the Desert Rose House, a student designed, built and operated net-zero energy sustainable solution for ageing in place and dementia friendly design	Clayton McDowell	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Engineering a sustainable future (population growth, biodiversity, ecosystems))
364	Existential Risk - Why we urgently need our population and economy to degrow	Ian Thomas	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Engineering a sustainable future (population growth, biodiversity, ecosystems))
505	The Future of Engineering	Laurie Bowman	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Engineering a sustainable future (population growth, biodiversity, ecosystems))
314	Controlling a Global Contamination Issue	Grant Scott	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Environmental sustainability)
454	The quest for sustainability – exergy not energy as a quantifier for change in the use of limited resources.	Bruce Sanderson	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Environmental sustainability)
466	Uptake and Retention of Nanoplastics in Quagga Mussels	Mark Banaszak Holl	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Environmental sustainability)
485	Effect of Supplementary Cementitious Materials on the Flexural and Shear Performance of Reinforced Concrete Beams	Aleya Sharif Zadeh	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Green infrastructure)
136	Front-End Strategies to Reduce Site Waste on Australian Projects	Peter Rundle	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))
161	The one solar community with 4000 dwellers 960 families, which has 480 solar dwelling houses and 32 mansion buildings (480 dwellers), - inclusive Water Aspect	Kunihisa Kakumoto	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))
239	Integrated Sustainable Infrastructure – Meeting Sustainable Development Goals	Carol Boyle	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))

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Paper ID	Poster Title	Author Full Name	Theme and Subtheme
290	The RoadMap to Sustainable Infrastructure Asset Management	Anne Gibbs	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))
323	Real Outcomes of Implementing the WELL Building Standard for Workplace: A Self-Inflicted Case Study	Ken-Yi Fong	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))
387	Waste Conversion to High Value Fuels & Organic Acids	Grant Scott	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))
538	New Measurement Standards Supporting Integration of Renewable Energy Sources and Efficient Appliances into Electricity Networks	Ilya Budovsky	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))
599	Bridging the gap between water availability and logistics: engineering for change from a Gender perspective.	Shelta Majowa	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable assets and utilities (water, energy, waste))
98	Sustainable Cities – Working with the Water Cycle and the Environment	Agni Bhandari	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable water management practices)
396	Amelioration of Blue-Green Algal Toxins in a Water Supply	Brace Boyden	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Sustainable water management practices)
49	An innovative and practical approach to reduce road congestion	Manoucher Pajouhesh-Kia	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Transport systems (road, rail, air))
292	Sustainable Transport Contracts	Amy Lezala	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Transport systems (road, rail, air))
306	Reduction in carbon footprint of rail projects by innovative formation design and construction	Muhammad Ali Khan	Theme 2: Engineering for humanity: responsive design for greater liveability (SDG 1, 2, 3, 4, 10, 11, 12) (Transport systems (road, rail, air))
568	Cross-regional collaboration fostering diversity and inclusion	Clare Evans	Theme 3: Fostering diversity and inclusion (SDG 4, 5, 10, 16, 17) (Future workforce (3))

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Paper ID	Poster Title	Author Full Name	Theme and Subtheme
324	Break Down the Barriers to Diversity	Amy Lezala	Theme 3: Fostering diversity and inclusion (SDG 4, 5, 10, 16, 17) (Teams of the future (breaking old habits))
34	Building project management employability skills in partnership.	Simone Long	Theme 4: Preparing the next generation of engineers (SDG 4, 17) (Education system/framework of tomorrow)
159	TechnoLab™ - Hands-on Basic Mechanics Now and Beyond	Nicholas Haritos	Theme 4: Preparing the next generation of engineers (SDG 4, 17) (Education system/framework of tomorrow)
200	A Systems Approach to Engineering Pedagogy and Professional Development	Graham Town	Theme 4: Preparing the next generation of engineers (SDG 4, 17) (Education system/framework of tomorrow)
270	Reshaping Academic Delivery: Collaborative Industry Placement Opportunities In Engineering Fields	Isher Hasan	Theme 4: Preparing the next generation of engineers (SDG 4, 17) (Industry-education collaboration)
289	An industry perspective on critical thinking in the engineering profession	Ashlee Pearson	Theme 4: Preparing the next generation of engineers (SDG 4, 17) (Industry-education collaboration)
633	The low down on subsurface utilities	Rob Sansbury	Theme 5: Engineering leadership, governance and influence (SDG 1, 4, 5, 8, 12, 13, 16, 17) (A changing profession (global environment, lifelong learning, entrepreneurial skills))
62	Professional recognition of Humanitarian Engineering, and implications for designing appropriate aid.	Robert Mitchell	Theme 5: Engineering leadership, governance and influence (SDG 1, 4, 5, 8, 12, 13, 16, 17) (Ethical behaviour and obligations)
386	Why sustainable development depends on complex systems governance and how it strengthens systems thinking and engineering	Richard Hodge	Theme 5: Engineering leadership, governance and influence (SDG 1, 4, 5, 8, 12, 13, 16, 17) (Governance (market/employer disruption, communication within and outside the profession, mergers))
487	Functional Safety Assessment Stage 3 - in Practice	Arsham Ahmadi	Theme 5: Engineering leadership, governance and influence (SDG 1, 4, 5, 8, 12, 13, 16, 17) (Technical or leadership careers (role models, career pathways))
244	Impact by Design	Nermine Zahran	Theme 6: Our changing climate: mitigation, resilience and adaptation (SDG 3, 6, 7, 10, 13, 14, 15) (Leadership in response to natural and other major occurrences (adaptation))
17	Voltage management in high solar PV penetrated feeders.	Ruifeng Yan	Theme 6: Our changing climate: mitigation, resilience and adaptation (SDG 3, 6, 7, 10, 13, 14, 15) (Managing

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			our resources (land, water, mining, energy))
71	Strategic Energy Management passes the test of time	Quentin Roberts	Theme 6: Our changing climate: mitigation, resilience and adaptation (SDG 3, 6, 7, 10, 13, 14, 15) (Managing our resources (land, water, mining, energy))
481	Prolonging the use of coal for power generation.	Zvonko Pregelj	Theme 6: Our changing climate: mitigation, resilience and adaptation (SDG 3, 6, 7, 10, 13, 14, 15) (Managing our resources (land, water, mining, energy))
294	Environmental Effects and Sustainability of Concrete Pavements Compared to Asphalt Pavements for Highways.	Sarvin Baghdadi	Theme 6: Our changing climate: mitigation, resilience and adaptation (SDG 3, 6, 7, 10, 13, 14, 15) (Resilient infrastructure for climate change)
545	Safe System Assessments into Practice	Evan Coulson	Theme 6: Our changing climate: mitigation, resilience and adaptation (SDG 3, 6, 7, 10, 13, 14, 15) (Risk leadership, governance and innovation)
695	Polymer coatings on titanium alloys for application in surgery	Agnieszka Kupiec-Sobczak	World Federation of Engineering Organizations (WFEO) (WFEO)
707	Biomedical coatings based on chitosan	Bożena Tyliczszak	World Federation of Engineering Organizations (WFEO) (WFEO)

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