

ACCM-11

CAIRNS, AUSTRALIA | 29 JULY - 1 AUGUST 2018

11th ASIAN - AUSTRALASIAN CONFERENCE ON COMPOSITE MATERIALS

July 29 - August 1, 2018, Cairns, Australia


ABSTRACT BOOK




ACCM-11

11th ASIAN-AUSTRALASIAN CONFERENCE ON COMPOSITE MATERIALS
29 JULY - 1 AUGUST 2018 // CAIRNS, AUSTRALIA


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 UNIVERSITY OF SOUTHERN QUEENSLAND


 UNIVERSITY OF SYDNEY


 DEAKIN



1st-11th ACCM-11 Registration Fees Comparison

Year	1st-11th ACCM-11 Registration Fees Comparison
2008	1200
2009	1200
2010	1200
2011	1200
2012	1200
2013	1200
2014	1200
2015	1200
2016	1200
2017	1200
2018	1200



Sessions at ACCM-11

Session	Topic	Speaker
1	1st-11th ACCM-11 Registration Fees Comparison	
2	2nd-11th ACCM-11 Registration Fees Comparison	
3	3rd-11th ACCM-11 Registration Fees Comparison	
4	4th-11th ACCM-11 Registration Fees Comparison	
5	5th-11th ACCM-11 Registration Fees Comparison	
6	6th-11th ACCM-11 Registration Fees Comparison	
7	7th-11th ACCM-11 Registration Fees Comparison	
8	8th-11th ACCM-11 Registration Fees Comparison	
9	9th-11th ACCM-11 Registration Fees Comparison	
10	10th-11th ACCM-11 Registration Fees Comparison	
11	11th-11th ACCM-11 Registration Fees Comparison	

SUPPORTERS:       EXHIBITORS:      



*From the Chair
Prof Hao Wang
University of Southern Queensland*

WELCOME



On behalf of the Asian-Australasian Association for Composite Materials Committee, I welcome you in Cairns, Australia for the 11th Asian-Australasian Conference on Composite Materials (ACCM-11) from 29th July 2018 to 1st August 2018.

ACCM-11 has developed as one of the largest composites conference bringing together industry and research in composites from all over the world, and includes new contemporary themes such as Additive Manufacturing and Cement Based Composites.

ACCM-11 will feature a 3-day program of a divergent range of composite research themes and will showcase plenary and keynote presentations by thematic leaders. ACCM-11 will also include diverse social events including a Welcome Dinner, Conference Banquet, and the ACCM-11 Awards Ceremony.

Cairns captivates its visitors as the gateway to The Great Barrier Reef and Wet Tropics Heritage Rainforest and is a popular tourist destination. We look forward to welcoming you at ACCM-11 in Cairns in Jul-Aug 2018.

29 th July	DAY 1 Monday 30 th July	DAY 2 Tuesday 31 st July	DAY 3 Wednesday 1 st August
14:00-18:30 Registration	08:00 Trade Exhibition	08:00 Trade Exhibition	08:00 Registration
	08:30 Opening Ceremony	08:30-10:45 Plenary Session 2	08:30-10:30 Keynote Session Comp 13-16 Appl 17-20 Appl 21-24 FR 25-28
	09:00-10:30 Plenary Session 1		10:30 Morning Tea
	10:30 Morning Tea	10:45 Morning Tea	10:45-12:40 Concurrent Sessions (115 minutes)
	10:45-12:40 Concurrent Sessions (115 minutes)	11:00-12:40 Concurrent Sessions	12:40 Lunch
	12:40 Lunch	12:40 Lunch	13:40-15:35 Concurrent Sessions (115 minutes)
	13:40-15:20 Concurrent Sessions	13:40-15:20 Concurrent Sessions	15:35 Afternoon Tea
	15:20 Afternoon Tea	15:20 Afternoon Tea	15:50-16:50 Journal Session
	15:35-17:35 Keynote Session Comp 1-4 Manu 5-8 Appl 9-12	15:35-16:20 Industry Session	16:50-17:20 Closing Ceremony
	17:35-18:30 Poster Session	16:20-17:20 Young Researcher Presentations	17:20 Break
18:30-21:30 Welcome Dinner	17:20-18:30 Mini-Oral Session Poster Session	18:30-21:30 Convenor/Keynote Speaker Appreciation Dinner Student Party	

KEYNOTE TALKS

Time	Title	Presenter	Affiliation	Room	Chair
Monday 30 July 9:40	In-Process Monitoring Of Advanced Composites For Material Quality Assurance	Nobuo Takeda	University of Tokyo	Hall B	Yu-Wing Mai
9:45	Metal Matrix Composite Reinforcement by Boron Nitride Nanotubes: Insight from Composites	Debra J. Bernhart	The University of Queensland		Won Il Lee

Time	Title	Presenter	Affiliation	Room	Chair
Tuesday 31 July 8:30-9:15	Understanding and Improving the Moist Sensitivity of Composite Laminates	Michael Worsom	University of Bradford		Keishi Gada
10:00	Nanostructured films as anodes for energy storages	Linh Zhou	Hong Kong Polytechnic University	Hall B	Jang-Kyo Kim
10:00-10:45	3D Graphene Based Nanocomposites For Next Generation Energy Applications	Joong Hee Lee	Chonbuk National University		Yuzhong Wang

Time	Title	Presenter	Affiliation	Room	Chair
Monday 30 July 16:35	Improving The Delamination Resistance Of Carbon Fiber/Epoxy Laminates With Hierarchical Short Carbon Fiber/Carbon Nanotube Interaives	Yu-Wing Mai	University of Sydney		
16:35	Carbon Fibers In Tribo-Composites: A Review	Klaus Friedrich	University of Detroit Mercy	Meeting Room 507	Yuzhong Wang
16:35-17:05	Rational Design Of Graphene/Polymer Composites With Exceptional Transport Properties	Jiang Kyo Kim	Hong Kong University of Science and Technology		Joe R Youn
17:05-17:25	High Performances of Plant Fiber Reinforced Composites: Design, Processing and Applications	Yan Li	Tongji University		

Time	Title	Presenter	Affiliation	Room	Chair
Monday 30 July 16:35	Different Contribution of Fiber Bridging For Mode I and II Delamination in CFRP Laminates	Masaki Hogo	Kyoto University		
16:35	3D Printing Of Polymer-Based Microfilament Functional Composites	Qi Wang	Sichuan University	Meeting Room 2	Zhong Zhang
16:35-17:05	Active Hybrid Composites For Adaptive Airframe Structures	Ulf Bruner	Technical University of Kaiserslautern		Tong Eam Tay
17:05-17:25	Equivalent Modulus Of Composite Resin For Stress Simulation Of Dental Restoration	Nak-Sam Choi	Hanyang University		

Time	Title	Presenter	Affiliation	Room	Chair
15:35-16:05	Building Carbon Nanotube Webs For Multifunctional Composite Structures	Ethan Fazon	Queen's University Belfast		
16:05-16:35	3D Printed Carbon Fibre Composites: Miniaturized For	Jiadao Lang	Hanjin Institute of Technology	Meeting Room 314	Xunqiang Wang Masaki Higo
16:35-17:05	Metal And Ceramic Matrix Composites For Nuclear And Fusion Applications	Ho Jin Ryu	Korea Advanced Institute of Science and Technology		
17:05-17:35	Functionalization of Natural Fibre for Energy Storage Applications	Xiaoqian Yuan	Massey University		

Time	Title	Presenter	Affiliation	Room	Chair
8:30-9:00	Recent Advancement Of Nanocellulose Based Multifunctional Composites	Jinweon Kim	Inha University		
9:00-9:30	Self-Healing Polymers And Polymer Composites Based On Microcapsules Strategy	Mingqi Zhang	Zhongshan University	Meeting Room 67	Qi Wang Michael Whitton
9:30-10:00	Nano-scale Engineering of Fibre Composites for E-Textiles	Chun Wang	University of New South Wales		
10:00-10:30	Filling The Property Gap Of Two-Phase Composites	Huaxin Peng	Zhejiang University		

Time	Title	Presenter	Affiliation	Room	Chair
8:30-9:00	Mechanical And Interfacial Properties Of Glass Fiber Poly(Dicyclopentadiene) Composites At Different Thermal Conditions And Surface Treatments	Jung Man Park	Gyeongsang National University	Meeting Room 45	Jang-Kor Kim Mingqi Zhang
9:00-9:30	Durable Supercapacitive Polymer Nanocomposite Surfaces And Coatings	Zhong Zhang	KONIST		
9:30-10:00	Thermoelectric Materials	Lidong Chen	SICCAS		
10:00-10:30	Rational Design Of Advanced Elastomer Nanocomposites Towards Extremely Energy-Saving Tires Based On Macromolecular Assembly Strategy	Liqun Zhang	Beijing University of Chemical Technology		

Time	Title	Presenter	Affiliation	Room	Chair
8:30-9:00	Carbon Nanotube Composite for Mechanical Energy Storage with High Energy Density and Power Density	Fu Wei	Tsinghua University		
9:00-9:30	Composite Material Applications to Industries in China	Jianxin Zhu	Sinowatch	Meeting Room 2	Brian Fobson
9:30-10:00	A Novel Biofiber-Cement Composite For Concrete Structures	Priyan Mendis	University of Melbourne		Yan Li
10:00-10:30	Natural Fibre Reinforced Green Composites	Khalid Soad	Yamaguchi University		

Time	Title	Presenter	Affiliation	Room	Chair
8:30-9:00	How to Filter-Related Carbon Fiber-Reinforced Epoxy Resin Composite Effectively	Yachang Wang	Sichuan University		
9:00-9:30	Novel Strategy to Utilize Low-Cost Karstous Fibres for High-Performance Fibre Reinforced	Dobes Brahadacharya	University of Auckland	Meeting Room 1	Chun G Kim
9:30-10:00	A Novel Strategy for Enhancing the Flame Retardancy and Toxicity Suppression of Epoxy Resins	Yan Hu	University of Science and Technology of China		Lin Ye
10:00-10:30	No All Fire Retardants are Equal to a Fire Safety Engineer	Jonathan Burnett	Kesart Australia		

Concurrent Session No	Concurrent Session-1	Concurrent Session-2	Concurrent Session-3	Concurrent Session-4	Concurrent Session-5	Concurrent Session-6
Date	July-30	July-30	July-31	July-31	Aug-1	Aug-1
Time Slot	10:45-12:40	13:40-15:20	11:00-12:40	13:40-15:20	10:45-12:40	13:40-15:25
Conference Room 1	Struc-1-1 Composites Structure Design-1	Struc-4-1 Smart Composites/ Structural health monitoring-1	Struc-1-2 Composites Structure Design-2	Struc-4-2 Smart Composites/ Structural health monitoring-2	Struc-4-3 Smart Composites/ Structural health monitoring-3 Struc-1-3 Composites Structure Design-3	
Conference Room 2	Comp-11-1 Natural Fibres Composites-1	Appl-3-1 Civil and Infrastructure Applications-1	Appl-3-2 Civil and Infrastructure Applications-2	Natural Comp-11-2 Natural Fibres Composites-2	Appl-1-1 Aerospace/Aeronautical Applications-1	Appl-3-3 Civil and Infrastructure Applications-3
Conference Room 3	Comp-10-1 Ceramic Matrix Composites-1	Comp-10-1 Metal Matrix Composites-1	Comp-4-2 Ceramic Matrix Composites-2	Comp-4-3 Ceramic Matrix Composites-3	Comp-10-2 Metal Matrix Composites-2	Comp-10-3 Metal Matrix Composites-3
Conference Room 4	Struc-3-1 Sandwich and Foam Structures-1	Appl-2-1 Biomedical Composites-1	Comp-6-1 Glass Fibres Composites-1	Comp-6-2 Glass Fibres Composites-2	Struc-3-2 Sandwich and Foam Structures-2	Manuf-3-2 Composite Machining and Joining-2 Appl-6-5 Advanced Manufacturing (Injection, Numerical, welding, automation)-3
Conference Room 5	Comp-1-1 Carbon (other than graphene)Composites-1	Manuf-1-1 3D Printing / Microstructures-1	Comp-1-2 Carbon (other than graphene)Composites-2	Manuf-1-2 3D Printing / Microstructures-2	Manuf-1-3 3D Printing / Microstructures-3	Comp-1-3 Carbon (other than graphene)Composites-3 Comp-11-3 Natural Fibres Composites-3
Hall B	Comp-7-1 Functional Polymer Composites-1	Comp-7-2 Functional Polymer Composites-2	Comp-7-3 Functional Polymer Composites-3	Comp-7-4 Functional Polymer Composites-4		
Meeting Room 2	Comp-6-1 Flame Retardant Composites-1	Appl-4-1 Composites Repair and Self-healing-1	Comp-6-2 Flame Retardant Composites-2	Comp-6-3 Flame Retardant Composites-3	Comp-6-4 Flame Retardant Composites-4	Comp-6-5 Flame Retardant Composites-5 Comp-7-5 Functional Polymer Composites-5
Meeting Room 3	Struc-2-1 Modelling and Simulation-1	Struc-2-2 Modelling and Simulation-2	Struc-2-3 Modelling and Simulation-3	Struc-2-4 Modelling and Simulation-4	Struc-2-5 Modelling and Simulation-5	Struc-2-6 Modelling and Simulation-6
Meeting Room 4	Comp-3-1 Cement based Composites-1	Manuf-5-1 Composite Machining and Joining-1	Manuf-5-2 Advanced Manufacturing (Injection, Numerical, welding, automation)-1	Comp-3-2 Cement based Composites-2	Manuf-5-3 Advanced Manufacturing (Injection, Numerical, welding, automation)-2	Comp-3-3 Cement based Composites-3
Meeting Room 5	Comp-2-1 Carbon Fibres and Composites-1	Comp-2-2 Carbon Fibres and Composites-2	Comp-2-3 Carbon Fibres and Composites-3	Comp-2-4 Carbon Fibres and Composites-4	Comp-2-5 Carbon Fibres and Composites-5	Comp-2-6 Carbon Fibres and Composites-6
Meeting Room 6	Comp-12-1 Naturally Derived Composites-1	Comp-9-1 Graphene based Nanocomposites-1	Comp-9-2 Graphene based Nanocomposites-2	Comp-9-3 Graphene based Nanocomposites-3	Comp-12-2 Naturally Derived Composites-2	Comp-9-4 Graphene based Nanocomposites-4
Meeting Room 7	Comp-5-1 Energy and Thermoelectric Materials-1	Comp-5-2 Energy and Thermoelectric Materials-2	Comp-5-3 Energy and Thermoelectric Materials-3	Comp-5-4 Energy and Thermoelectric Materials-4	Appl-4-2 Composites Repair and Self-healing-2	Appl-4-3 Composites Repair and Self-healing-3 Appl-2-2 Biomedical Composite-2



ACCM-11 2018

Abstracts

Table of Content

Plenary	6
Keynotes	8
Orals	
Comp 1 - Carbon (other than graphene) Composites	32
Comp 2 - Carbon Fibres and Composites	41
Comp 3 - Cement Based Composites	58
Comp 4 - Ceramic Matrix Composites	67
Comp 5 - Energy and thermoelectric materials	76
Comp 6 - Flame Retardant Composites	87
Comp 7 - Functional Polymer Composites	102
Comp 8 - Glass Fibres Composites	117
Comp 9 - Graphene based nanocomposites	124
Comp 10 - Metal Matrix Composites	139
Comp 11 - Natural Fibres Composites	147
Comp 12 - Naturally Derived Composites	156
Manuf 1 - 3D Printing	164
Manuf 2 - Advanced Manufacturing	173
Manuf 3 - Composite Machining and Joining	183
Struc 1 - Composites Structure Design	189
Struc 2 - Modelling and Simulation	197
Struc 3 - Sandwich and Foam Structures	215
Struc 4 - Smart Composites/Structural Health Monitoring	223
Appl 1 - Aerospace/Aeronautical Applications	232
Appl 2 - Biomedical Composites	235
Appl 3 - Civil and Infrastructure Applications	241
Appl 4 - Composites Repair and Self-healing	249
Posters	
Comp 1-12	256
Manuf 1-3	289
Struc 1-4	291
Appl 1-4	297