

5TH ANNUAL 3D Med

AUSTRALIA CONFERENCE

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#3dMed19

14-16th November 2019

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2019 ORGANISING COMMITTEE

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Kate Fox

Cathal O'Connell

Darpan Shidid

David Ackland

Payal Mukherjee

Mathilde Desselle

Toan Pham

Ian Chao

Abstract Review Committee

Blake Cochran

Tracie Barber

Mathilde Desselle

Preconference Workshops and Tours

Thursday November 14

0900-1000	Anatomical Modelling Workshop
1000-1200	Surgical Simulation Workshop and Consultation
1200-1300	Break
1300-1400	VR Buffet @ The University of Melbourne
1400-1500	NExT Lab Tour @ The University of Melbourne
1500-1600	Centre for Additive Manufacturing Lab Tour @ RMIT
1600-1700	BioFab3D Tour @ St Vincent's Hospital Melbourne
1700-1800	Break
1800-Late	Women in 3D Technologies Networking Drinks @ Milk the Cow (all welcome!)

Program Outline

Friday November 15

0800-0830	Registration	Foyer
0830-0900	Welcome Address Frank McGuire MP, Parliamentary Secretary for Medical Research Prof Guy Maddern, Royal Australasian College of Surgeons	Lecture Theatre
0900-1030	Presurgical Planning Plenary: Jason Chuen	Lecture Theatre
1030-1100	Morning Tea	Trade Area
1100-1215	Cardiovascular Applications Keynote: Charles Sevigny	Lecture Theatre
1215-1315	Lunch	Trade Area
1315-1445	3d Visualisation	Lecture Theatre
1445-1515	Afternoon Tea	Trade Area
1515-1630	Innovation and Industry Keynote: David Ackland	Lecture Theatre
1630-1730	Quickshot Presentations	Lecture Theatre
1730-1900	Welcome Drinks	Trade Area

Saturday November 16

0830-1030	Bioprinting Keynote: Gordon Wallace Plenary: Mia Woodruff	Lecture Theatre
1030-1100	Morning Tea	Trade Area
1100-1230	Surgery: Synergy & Design	Lecture Theatre
1230-1330	Lunch	Trade Area
1330-1500	Ethics & Governance	Lecture Theatre
1500-1530	Afternoon Tea	Trade Area
1530-1730	Validation in 3D Technologies Keynote: Blake Cochran	Lecture Theatre
1730	Conference Close	

Sessions

Friday November 15: Presurgical Planning

Xiaowei Wang	3D FLECT- Fusion Imaging and Emerging Technologies	0900-1915
Amy Baker	Optimising Imaging for 3D Planning	0915-0930
Joseph Ischia	3D Visualisation in Complex Urooncological Surgery	0930-0945
Felix Sim	3D Printing Craniofacial Implants	0945-1000
	Panel Discussion	1000-1015
Jason Chuen	Plenary: New Technologies	1015-1030
	Morning Tea	1030-1100

Friday November 15: Cardiovascular

Carmine Gentile	Cardiac Bioprinting	1100-1115
Niranjan Hiremath	3D Printing in Complex Aortic Arch Disease	1115-1130
Pujith Vijayaratnam	3D Printing Technologies in Experimental Fluid Dynamics Models of Bridged Arteries	1130-1145
Jas Coles-Black	A Technique to Produce Physician Modified Stent Grafts	1145-1200
	Panel Discussion	1200-1215
	Lunch	1215-1315

Friday November 15: Visualisation

Charles Sevigny	Key Note: The Virtual Heart	1315-1330
Agnieszka Sekula	Photogrammetry and Forensic Investigation	1330-1345
Ben Loveridge	VR and Presurgical Planning	1345-1400
Michelle Rank	Bending the knee: can VR rule clinical training paradigms?	1400-1415
Andrew Hardidge	3D Printed Acetabular Models for Prosthesis Sizing	1415-1430
	Panel Discussion	1430-1445
	Afternoon Tea	1445-1515

Friday November 15: Innovation and Industry

David Ackland	Key Note: Engineering the Human Jaw Joint	1515-1530
George Dimitroulis	Digital Advances in Maxillofacial Surgery	1530-1545
Richard Stratton	Patient's Perspective	1545-1600
Karen Reynolds	MDPP- Supporting Medical Innovation	1545-1600
Anna Ridgers	3D Printing a Tracheobronchial Tree for Bronchoscopy Training	1615-1630
	Panel Discussion	1630-1645
	Quickshot Presentations	1645-1730
	Faculty Dinner	1900-Late

Sessions

Saturday November 16: Bioprinting

Gordon Wallace	Key Note: Bioprinting	0830-0900
Claudia di Bella	3D Bioprinting: A Surgeon's Perspective	0900-1915
Michael Mueller	Bioprinting at CSIRO	0915-0930
Payal Mukherjee	The Journey of the Bioprinted Ear	0930-0945
Behzad Shiroud Heidari	Bioengineering of Hard-Soft Tissue Interfaces	0945-1000
	Panel Discussion	1000-1015
Mia Woodruff	Plenary: Directions of Bioprinting	1015-1030
	Morning Tea	1030-1100

Saturday November 16: Synergy and Design

Icaro Ibanez Arricivita	The Aesthetics of Prosthetics	1100-1115
XiaoPeng Li	Implant design	1115-1130
Tegan Cheng	Designing and developing medical devices for children	1130-1145
Tom Williamson	Self-Driving Tools and Surgical Instrument Flight: Developing Robotics for the OR	1145-1200
Toh Yen Pang	Designing Prostheses	1200-1215
Mark Midwinter	VR and Simulation of Uncommon Time Critical Medical Interventions	1215-1230
Mathilde Desselle	No more boring stints in hospitals waiting rooms! Serious games for patient education	1230-1245
	Panel Discussion	1245-1300
	Lunch	1300-1345

Saturday November 16: Ethics and Governance

Cathal O'Connell	Don't Print Your Heart Out: The Dangers of Sensationalism in Science	1345-1400
Paul Fennessy	Department of Health and Human Services – An Evidence Review of the Surgical Applications of 3D Printing	1400-1415
John Skerritt	TGA- Regulatory Reforms to Personalised Medical Devices	1415-1430
Kate Fox	The Fun Patent Talk	1430-1445
	Panel Discussion	1445-1500
	Afternoon Tea	1500-1530

Saturday November 16: Validation

Blake Cochran	Key Note: 3D Printing Awesomeness	1530-1545
Kate Dunn	3D Printed Surgical Simulation and Haptics	1545-1600
Peter Lee	ARC Training Centre for Medical Implant Technologies: Building Multidisciplinary Teams and Projects	1615-1630
Karel Habig	3D Printing in Helicopter Retrieval	1630-1645
Atandrilla Das	3D Visualisation in Robotic Surgery	1645-1700
Nathaniel McTaggart	Starting a 3D Printing Service at Auckland City Hospital	1700-1715
Stewart Ryan	3D Printing in Veterinary Education	1715-1730
	Panel Discussion	1730-1745
	Closing Ceremony	1745-1800