



## PROGRAM

# INTEGRATED DESIGN SYMPOSIUM

OCT 25-27 12-2PM

DAY 1	Sessions	Speakers
12:00-12:10pm	Introduction AIRAH	AIRAH
12:10-12:30pm	1a: Context to IDS & Integrated Design Agenda	Brendon McNiven, Lu Aye, and Dominik Holzer
12:30-12:50pm	1b: Swinburne - Socio Economic Architecture > Design Studio 3	Daniel Prohasky
12:50-1:10pm	1c: IDS > Data-Centres / Aquatic Centres - Studio Examples	Toby Reed and Damon Moloney
1:10-1:30pm	1d: Zero Carbon Design - A student perspective (Arch/Eng)	Lucy Marsland and Claudio Torres
1:30-2:00pm	Integrated Design - Principles	Panel Conversation
DAY 2		
12:00-12:10pm	Introduction AIRAH	AIRAH
12:10-12:30pm	2a: IDS > University of Wollongong - Recent Integrated Design Studios at UOW	James Roth and Emma Heffernan
12:30-12:50pm	2b: Engineers Declare - How integrated design can help built environment professionals respond to the climate and biodiversity emergency	Chris Buntine
12:50-1:10pm	2c: IDS > ACT Schools - Studio examples & consultant perspective	Josephine Lettieri and Patricia Stocca
1:10-1:30pm	2d: Zero Carbon Design - A client perspective	Beth Mitchell
1:30-2:00pm	Integrated Design - Practices	Panel Conversation
DAY 3		
12:00-12:10pm	Introduction AIRAH	AIRAH
12:10-12:30pm	3a: IDS > Queensland University of Technology - Integrated Design Studio Examples	Wendy Miller, Lindy Osborne and Naima Iftikhar
12:30-12:50pm	3b: Guest Lecture Monash Solar Decathlon	Savith Suraweera and Monash Solar Decathlon Team
12:50-1:10pm	3c: IDS UoM > Ambulance VIC / Aged Care	Gumji Kang and David Ritter
1:10-1:30pm	3d: IDS Key Findings & Carbon Catalogue:	McNiven / Aye / Holzer / Ifikhar / Kokogiannakis/...
1:30-2:00pm	Integrated Design Future - What's Next? & Wrap Up	Panel Conversation

## PRESENTERS



### **Brendon McNiven**

Brendon is an Enterprise Professor of Architectural Engineering at The University of Melbourne. Brendon brings more than 30 years of design industry experience to the Integrated Design Studios including significant laboratories in Australia and overseas. He is joint activity leader for the Integrated Design Studios.



### **Dominik Holzer**

Dominik is an Associate Professor at the University of Melbourne specialising in digital design and cross-discipline collaborative design. Dominik is leading the research component of the Integrated Design Studios being undertaken at the University of Melbourne as a part of the i-Hub project.



### **Lu Aye, L.AIRAH**

Lu is a Professor in the Faculty of Engineering and Information Technology at the University of Melbourne. He has more than 40 years of experience in university teaching, research, development, demonstration and commercialisation of low-carbon technologies. Lu is joint activity leader for the Integrated Design Studios.



### **Daniel Prohasky**

Daniel is an architectural engineer and roboticist passionate about translating research towards industry adoption in Australia, particularly in the building design and construction industry. He is the founding lecturer in Architectural Engineering at Swinburne University. As Swinburne's 2019 Design Faculty Innovation Fellow, he further developed his innovative advanced manufacturing venture, Curvecrete. He is CEO and co-founder of Curvecrete, an advanced manufacturer and robotics development company with a focus on elegant low-carbon construction.



### **Lucy Marsland**

Lucy is a Research Assistant with the University of Melbourne (Architecture, Building and Planning or ABP) and recent graduate of the Master of Engineering (Structural). Diverse experience in the building industry has fuelled Lucy's ambition to work in the nexus of integrated sustainable design, facilitating collaboration between engineers and architects in the pursuit of the sustainable built environments of the future.



### **Claudio Torres**

Claudio is an architect who graduated from the Pontifical Catholic University of Chile in 2015. He has contributed to recognised architectural design practices in Chile, Argentina, and Australia during his professional career. Since 2020, he has been studying the Master of Environment at the University of Melbourne, focusing on learning about new perspectives on environmental design, social-ecological resilience, and energy-carbon reduction of the built environment, bringing new approaches to the projects he participates in.



### **Toby Reed**

Toby is the Studio Leader for several of the Integrated Design Studios. Toby divides his time between private practice and teaching at the University of Melbourne, and has developed the program for other studios examining laboratories, data centres, aquatic centres and aged-care facilities.



### **Damon Moloney**

Damon is the Associate Director – Sustainability at WSP in Australia and New Zealand. He is a Green Star Accredited Professional – Design & As Built, and he is passionate about sustainable buildings and achieving high-performance outcomes.



### **James Roth**

James is an Associate Research Fellow at the University of Wollongong's Sustainable Buildings Research Centre, working as part of the i-Hub project. James was previously the BIM team manager and Site Operations Coordinator for Team UOW's Desert Rose House, a sustainable, net-zero energy home designed to improve the quality of life for those living with age-related disabilities, with a primary focus on dementia.



### **Emma Heffernan**

Emma is a Senior Lecturer in Architectural Engineering in the School of Civil Mining and Environmental Engineering at the University of Wollongong. Emma previously worked as a Research Fellow at the University of Wollongong's Sustainable Buildings Research Centre as part of the ARC Research Hub for Australian Steel Manufacturing.



### **Georgios Kokogiannakis, M.AIRAH**

Georgios is an Associate Professor at the Faculty of Engineering and Information Sciences at the University of Wollongong. His broader research focuses on the development of tools and technologies that will lead to improved built environments that reduce the impacts on energy resources and the environment, while providing healthy and comfortable indoor spaces for the occupants.



### **Chris Buntine**

Chris is an Associate and Sustainability Manager with Northrop Consulting Engineers, working with a wide range of clients around Australia to deliver sustainable and regenerative buildings and precincts. Intrigued by the question of what regenerative development means for engineers, Chris has been on a journey in recent years to better understand how we can design a built environment where people and nature can both thrive. He is a coordinator of Engineers Declare Climate and Biodiversity Emergency.



### **Josephine Lettieri**

Josephine is a Principal Architect at Jacobs with a qualified background in Civil Engineering. Her approach is design-led, with over 20 years' experience in integrated design projects including education and transport.



### **Patricia Stocca**

Patricia is Principle at Stocca Architects, an ESD-focused practice, and brings over 23 years of registered industry experience in design and constructability. She previously worked as a Senior Education Architect at SKM/Jacobs for more than a decade.



### **Beth Mitchell**

Beth is the Director Asset Strategies – Sustainability and Environment at the ACT (Gov) Education Directorate. Beth is a strategic planner with 20 years' experience in sustainable development planning. Key areas of capacity include sustainable development/business productivity, corporate social responsibility, infrastructure efficiency, green infrastructure management and sustainable procurement.



### **Sascha Bohnenberger**

Sascha is interested in the design and analysis of complex geometries, interactive systems, digital design processes, and the materiality of the built environment. He is a lecturer of Architectural Design at the Swinburne University of Technology. Besides his involvement in research and academia, he is also Managing Director for Bollinger+Grohmann Engineers in Melbourne.



### **Paul Trotter**

Paul is passionate about continuing Fulton Trotter Architects' history of providing a traditional architectural service. He is committed to developing long-term client relationships and positively contributing to the built environment of regional communities. Paul has been a director at Fulton Trotter Architects for more than 25 years. During this time, he has been involved in numerous exceptional healthcare, aged-care, cultural and education projects.



### **Wendy Miller, Affil.AIRAH**

Wendy is an Associate Professor at the School of Architecture & Built Environment within QUT's Faculty of Engineering. There she conducts industry- and government-funded socio-technical research in energy efficiency, renewable energy and resilience in the built environment, with a particular focus on housing. Current research projects include resilient cooling, living laboratories, electronic building passports, building regulation and compliance, natural ventilation, and indoor environment quality.



### **Lindy Osborne Burton**

Lindy is an Associate Professor at the School of Architecture & Built Environment within QUT's Faculty of Engineering. At QUT she is the Design for Health Program Co-leader. Her research interests centre on transformational architectural education, the design of innovative learning environments, the design of innovative environments to support mental health, the integration of biophilic, salutogenic and eudemonic architecture approaches in healthcare design (BaSE Mindset), the interstitial spaces between nature, art and architecture, and gender equity in architecture.



### **Naima Iftikhar**

Naima is a Research Associate and Academic at the Faculty of Engineering QUT. She is a member of AFHEA-I as well as MPCATP, and an affiliate of the RAIA.



### **Savith Suraweera**

Savith is the Team Lead at the Monash Solar Decathlon Team (MSDT), a multidisciplinary student-run team from Monash University, which has the goal of developing unique and practical net-zero building designs. Its designs, submitted annually to the US Department of Energy's Solar Decathlon Design Challenge, serve to provide innovative solutions to the ongoing energy crisis, inspiring our vision of a green future.



### **Gumji Kang**

Gumji is an architect with a transdisciplinary studio, Snøhetta, and an experienced Studio Leader at the University of Melbourne, where she has been running Master of Architecture design studios for several years. She is also co-chair of Emerging Architects and Graduate Network (EmAGN) Victorian Chapter, co-chair of the Research In Architecture Forum, and member of the Education committee of the Australian Institute of Architects.



### **David Ritter, M.AIRAH**

David is Leader of Atelier Ten's Melbourne office, boasting more than 20 years of experience in delivering cutting-edge ESD solutions. An accomplished environmental engineer, he has led ESD input on significant commercial (including large corporate headquarters), arts, culture and science projects around the world.