

SCOSA 2024 AGM

“Intelligence”

31st October and 1st November

Welsh School of Architecture, Cardiff University

31st October: Evening social event

Venue: Bute Building, room 0.66

Welsh School of Architecture, Cardiff University,

King Edward VII Avenue, Cardiff, CF10 3NB

6.00pm Arrival and drinks

6.30pm The Welsh School of Architecture, and its redesigned curriculum (Andy Roberts and Steve Coombs)

7.00pm Keynote: ‘A syntopic approach to computational methods and artificial intelligence in architectural education’ (Prof Wassim Jabi, Welsh School of Architecture)

Abstract: This talk explores the concept of **syntopy**, which emphasizes the systematic integration of geometry, topology, and semantics in architectural design. The presentation discusses the large potential of AI technologies in architectural investigations. It then introduces TopologicPy, an open-source, AI-powered Python library designed to enhance synoptic spatial modelling and analysis by providing rich, topological, and hierarchical 3D representations of architectural spaces and buildings.

Biography: Professor Wassim Jabi is the course director of the MSc Computational Methods in Architecture programme at the Welsh School of Architecture, Cardiff University in Wales, the United Kingdom. He earned his M.Arch. and Ph.D. from the University of Michigan and taught at various universities in the U.S. before moving to the UK in 2008. While teaching in the U.S., he secured a \$250,000 (USD) National Science Foundation (NSF) grant as Primary Investigator. Professor Jabi has published widely on topics ranging from parametric and generative design to the role of light in architecture and building performance simulation. He has authored a book titled "Parametric Design for Architecture" (Laurence King Publishing, London). His current research is at the intersection parametric design, the representation of space, building performance simulation, machine learning, and robotic fabrication in architecture. Professor Jabi has recently concluded a £300,000 (GBP) grant from the Leverhulme Trust as Primary Investigator to study spatial topology in building information modelling (BIM). This resulted in a software library called Topologic (<http://topologic.app>).

8.00pm

Buffet dinner

1st November: AGM

Venue: Bute Building, room 0.66

Welsh School of Architecture, Cardiff University,
King Edward VII Avenue, Cardiff, CF10 3NB

10.15 Arrivals and Coffee

10.45 Welcome

Morning Session:

11.00 ARB update and presentation, Hugh Simpson, Chief Executive and Registrar, ARB

11.20 Presentation by Adrian Dobson, Executive Director Professional Services, RIBA

11.40 PPE commission presentation Chris Husbands (PPEC Chair)

12.00 Q&A

12.20 Lunch & building tours

1.30 **Afternoon Session:**

Introduction: Des Fagan, SCOSA AI Working Group Chair

1.50 AI in Education: Tom Holberton, Unit 21 Lecturer, The Bartlett School of Architecture.

2.10 AI in Practice: Head of Applied Research + Development, Foster + Partners.

2.30 Panel Q&A

2.45 AAE update by Victoria Farrow

2.50 APSA update by Wendy Colvin

2.55 Carl Meddings StuCan festival update.

3.00 **SCOSA AGM**

Discussion items

Chairs report

Update on Council Membership and elections

2024 Financial report and 2025 membership fee

Working Group updates

SCOSA Awards (KS)

Venues for 2025 SCOSA meetings

4.15pm AOB

4.30pm Close (drinks)

Next meeting:

Spring Conference 24 & 25 April 2025

venue: University of Kent