



Association of Civil Engineering Departments

# ACED Annual Conference

**November 2017**

**South Pod, Edinburgh Business School, Heriot-Watt University  
EH14 4AH.**

## Final Programme

### Day 1

#### Thursday November 2nd

- 09:00 REGISTRATION
- 09:45 WELCOME TO HERIOT-WATT UNIVERSITY  
*Prof John Sawkins, Deputy Principal (Learning and Teaching)*
- 09:55 WELCOME TO THE ACED CONFERENCE  
*Scott Arthur, ACED Chair*
- 10:00 A taste of the international student experience at Heriot-Watt  
*Guy Walker, Heriot-Watt University*
- 10:30 STIMULATING UNDERGRADUATE STUDENTS  
Chair: ESTHER NORTON
- Learning by doing  
*Mark Milke, University of Canterbury, Christchurch NZ.*
- Sketching, drawing and 2D/3D modelling  
*Andrew Scoones, ngenuity Ltd.*
- Developing a strategy for teaching CAD to undergraduate engineers  
*Paul Smith, Coventry University*
- 11:45 COFFEE
- 12:00 OVERSEAS EXCHANGE PROGRAMMES.  
Chair: PAUL McMAHON

Overseas exchange programmes at University of Cardiff  
*Aled Davies, The University of Cardiff.*

Overseas exchange programmes at University of Leeds  
*Andy Sleight, University of Leeds*

13:00 LUNCH

14:00 TEACHING COMPUTER PROGRAMMING AND DATA ANALYTICS.  
CHAIR: MARK DAVIDSON

Teaching computer programming on civil engineering degrees  
*Alan Bloodworth, University of Warwick*

Data analytics in engineering  
*Tony Boobier, Independent Consultant.*

15:00 TEA

15:30 ENGINEERING ETHICS & RETENTION  
CHAIR: RACHEL HORN

Embedding ethics in the programme  
*Andy Sleight, University of Leeds*

Student Retention at Heriot-Watt  
*Scott Arthur*

16:30 ACED AGM

17:00 CLOSE

19:00 CONFERENCE DINNER  
Ghillie Dhu, 2 Rutland St, Edinburgh EH1 2AD

## Day 2

### Friday November 3rd

- 09:00 JBM Update  
Nick Russell (JBM Chair)
- 09:30 ENGINEERING ETHICS & SKETCHING (CONTINUED)  
CHAIR: RACHEL HORN  
  
Engineering Ethics  
*Jean Venables, Venables Consultancy*  
  
Sketching, drawing and 2D/3D modelling  
*Andrew Scoones, ngenuity Ltd.*
- 10:30 Session: STUDENT RETENTION  
Chair: Scott Arthur  
  
Addressing lower academic success and inequity in experience of BME (Black and Minority Ethnic) and SEC (lower Socio-Economic background) students.  
*Dr Sam Dent, University of Sheffield.*  
  
Retention, student engagement and deep learning.  
*Patricia Broadfoot, Bristol University*
- 11:30 COFFEE
- 11:45 Session: STUDENT ENGAGEMENT  
Chair: Scott Arthur  
  
Teaching by Asking the Right Questions  
Simon Lancaster, University of East Angia  
  
IStructE Case Study - Ebola hospitals in Sierra Leone  
*Nick Francis, University of Sheffield.*  
  
Designing courses for active learning  
*Rachel Horn*
- 13:00 LUNCH

