

wholeSEM

Annual Conference 2017

The Past, Present and Future of
Energy Modelling

3rd – 4th July 2017

M by Montcalm, London

Professor Neil Strachan

n.strachan@ucl.ac.uk



Welcome to London's Tech City a.k.a. "Silicon Roundabout"



Conference themes

*(why energy modelling **was**, **is** and **will be** so important)*

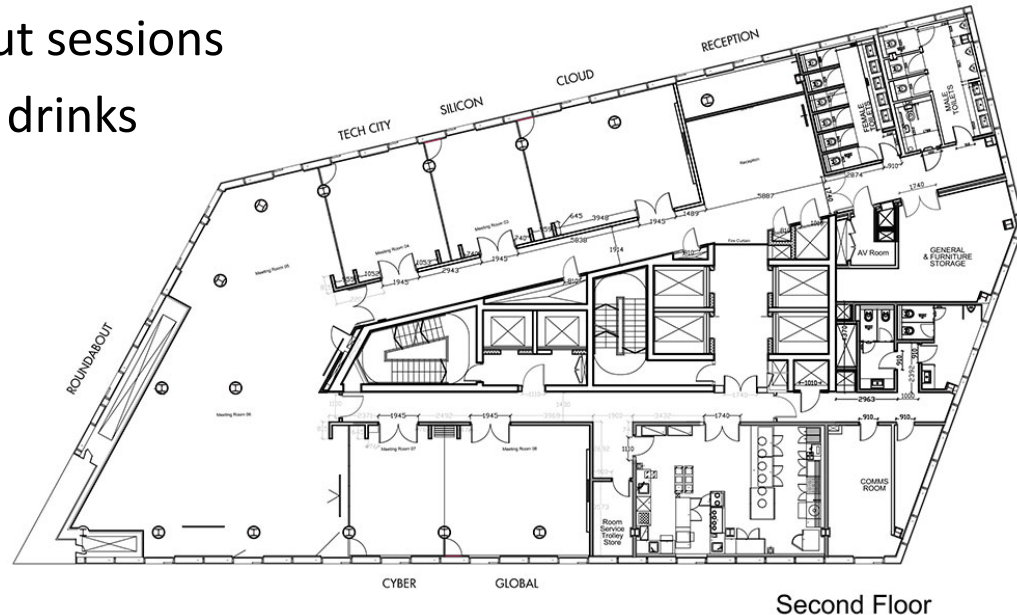


- The past, retrospective analysis (**Day 1**)
 - a look back at over a decade of energy decarbonisation modelling
- The present, current analysis (**Day 1**)
 - the implementation of the energy trilemma (decarbonisation, security, equity)
- The future, new approaches (**Day 2**)
 - developing and communicating the new insights needed by decision makers to achieve the energy systems transition challenge over the next decades



Practicalities

- All locations on this floor of M-by-Montcalm
 - Plenary and break-out sessions
 - lunches and evening drinks



- Twitter at @wholeSEM (hashtag #wholeSEM17)
- Meeting co-ordinators:
 - Pascale (our 3rd Centre Manager), and Maija
 - Assisted by Liz (our 1st Centre Manager), and Kim



What about Kate Rice?

Our 2nd centre manager and key organiser of this wholeSEM conference

Well, she is a little busy right now...!



PhD poster sessions

- Rapid-fire “elevator pitches”
 - 2 minutes, plus 1 minute Q/A
 - Day 1: 1200-1230 and 1600-1630
- Posters available over all two days for a more leisurely read
- 1st, 2nd, and 3rd Prizes
 - Awarded by Jo Coleman, wholeSEM Advisory Board Chair
 - Day 2: 1430-1500



Top-Dip Session

(1630 – 1730, Day 1)

- WholeSEM's Top Down Integration Project
- Researcher led and co-ordinated
 - Marianne Zeyringer (UCL)
 - And colleagues from UCL, ICL, Surrey and Cambridge
- Focused on hybrid energy modelling
 - Difficult to do in practice



Modelling Cafes

(0930 – 1130, Day 2)

Group 1 (Roundabout Room)	Group 2 (Global Room)
<p>What carbon price (how high and how long) is needed to mainstream new low carbon power generation, transport and heating technologies?</p>	<p>Who invests in strategic new energy infrastructures?</p>
<p><u>Facilitator</u>: Florian Habermacher, Aurora Energy Research</p>	<p><u>Facilitator</u>: Evelina Trutnevyte, ETH Zurich</p>
Group 3 (Cloud Room)	Group 4 (Silicon Room)
<p>How will residential consumers' change energy demand due to the introduction of new energy consuming technologies</p>	<p>How to keep options open for low carbon heating while ensuring zero emissions in the future?</p>
<p><u>Facilitator</u>: Joe DeCarolis, NC State University</p>	<p><u>Facilitator</u>: Katy Roelich, University of Leeds</p>
Group 5 (Tech City Room)	Group 6 (Cyber Room)
<p>How to approach specific industrial sectors with very few decarbonisation options?</p>	<p>How consistently will government energy policies be maintained for?</p>
<p><u>Facilitator</u>: Chris Bataille, ISDIR</p>	<p><u>Facilitator</u>: David McCollum, IIASA</p>



Our expectations of you!

- **Remember** that you are the crème-de-la crème of UK and international energy modelling
 - **Learn** from the presentations
 - **Ask** hard questions of the speakers
 - **Contribute** to discussions on the new directions for energy modelling
 - **Network** with your peers
 - (and eat and drink) !

