

 **Heat & Moisture Simulation Workshop**
Day 1 Workshop Programme
13 June 2013

- 8:30 *Registration and installation of software on personal laptops*
Tea/Coffee and breakfast snacks
- 9:00 Welcome, introduction and overview
- 9:30 Pres #1: Introduction to the language & concepts of building physics and moisture sensitive design
- 10.30 Pres. #2: Effects of moisture and hygrothermal performance evaluation in building practice – *Christian Bludau*
- 11:15 *Tea/Coffee Break*
- 11:30 Pres. #3: Dew-point calculations and their applications limits – *Christian Bludau*
- 12:00 Pres. #4: Fundamentals of hygrothermal simulation models – *Christian Bludau*
- 1:00 *Lunch Break*
- 02:00 Pres. #5: Hygrothermal Simulation Case Study: Moisture transfer in solid walls in London – *Joseph Little*
- 2:30 WUFI Practical: Using the WUFI material database – *Joseph Little*
- 2:40 Pres. #6: Handling of Typical Constructions in WUFI – *Christian Bludau*
- 3.30 WUFI Pro Practice Session – *Christian Bludau and Joseph Little*
- 4:00 *Tea/Coffee Break*
- 4.15 WUFI Pro Practice Session – *Christian Bludau and Joseph Little*
- 5:45 Conclusion
- 6:00 *Optional group get together and networking*

Principal Presenters/Instructors

Christian Bludau, Dipl.-ing - Fraunhofer IBP, Germany

Joseph Little, BArch, MSc Arch. AEES Principal, Building Life Consultancy, Ireland

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 **Heat & Moisture Simulation Workshop**
Day 2 Workshop Programme
14 June 2013

- 8:30 *Tea/Coffee & breakfast snacks*
- 9:00 *Pres. #7: Hygrothermal material properties – Christian Bludau*
- 10:00 *Pres. #8: Boundary and initial conditions (indoor & outdoor climates, surface transfer) - Christian Bludau*
- 11:00 *WUFI Practical: Selecting and generating weather files using Meteonorm - Joseph Little*
- 11:10 *Tea/Coffee Break*
- 11:25 *WUFI Practical: Determining and entering surface conditions – Joseph Little*
- 11:35 *Pres. #9: Evaluation of hygrothermal simulation results - Christian Bludau*
- 12:20 *WUFI Practical: Evaluation of mould growth using WUFI Bio – Joseph Little*
- 12:30 *Pres. #10: Further evaluation - Project case – Christian Bludau*
- 1:00 *Lunch Break*
- 2:00 *Pres. #11: Hygrothermal Simulation Case Study: Heavy structures – Joseph Little*
- 2.30 *WUFI Pro Practice Session (bring personal case study if desired) - Christian Bludau and Joseph Little*
- 4:00 *Tea/Coffee Break*
- 4:15 *Concluding discussion and questions*
- 5:00 *Session evaluation and close*

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