# EPICentre Encounters Programme

## Tuesday, 2nd July

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| 9:30 – 10:00 | Tea/coffee and registration |
| 10:00 – 10:30 | Welcome, introduction and opening speeches (Lounge Area) |
| 10:30 – 11:00 | Plenary speakers – Methods for multi-hazard risk assessment & resilience (Lounge Area) |
| | **Fatemah Jalayer, University of Naples Federico II, Italy.** *Case Studies in Multi-Hazard Risk Assessment* |
| | **Jair Torres, UNESCO, Paris, France.** *Current Trends and Issues on Multi-Hazard Early Warning Systems* |
| 11:00 – 11:30 | Plenary speakers – Transformative technologies for improved decision-making (Lounge Area) |
| | **Pierre Gehl, BRGM, Orleans Paris, France.** *Use of* Bayesian *Networks as Decision Support Tools in a Contect of Imprecise Information: Applications to Seismic Risk Assessment* |
| | **Liz Varga, CEGE UCL.** *Complex Systems Models: Better, Faster and More Inclusive, but is it Enough for Decision Making?* |
| 11:30 – 11:45 | Break |

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| 11:45 – 13:00 | *Parallel workshop sessions (5 minute presentations, followed by debate)* |

| | Lecture Theatre 1: Methods for multi-hazard risk assessment and resilience *Rapporteurs: Yasemin Aktas & Valentina Putrino* | Lecture Theatre 2: Transformative technologies for improved decision-making *Rapporteurs: Ahsana Vatteri & Marco Baiguera* |
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| | Xinzheng Lu, TsingHua University, China (by CC). *CIM-Powered Multi-Hazard Simulation Framework Covering Both Individual Buildings and Urban Areas* | Ingrid Charvet, UCL, UK. *Uncertainty, Questions and Decisions in a Rapidly Evolving Data Science Landscape* |
| | Massimiliano Pittore, GFZ Helmholtz Centre, Potsdam, Germany. *Bottom-Up Multi Hazard Exposure Modelling* | Jonathan Mille, UCL, UK. *Improving Communication Gaps Between Stakeholders and Modellers in Disaster Reduction Strategies* |
| | Fulvio Parisi, University of Naples, Italy. *Towards Multi-Hazard Vulnerability Modelling of Structures in Earthquake and Landscape-Prone Areas* | Fabio Petruzzelli, AXA-XL. *Natural Hazards Risk Consulting: Industry Needs and Challenges* |
| | Modhi Talib, University Kebangsaan, Malaysia. *Identification of Atmospheric Hazards in Kuala Lumpur Using Urban Scale Modelling* | Rosa Sobradelo, Willis Tower Watson. *Role of Natural Hazards Science in Informing Business Decisions: A Willis Research Network Earth Science Perspective* |
| | Jingzhe Wu, World Bank, USA. *Making Schools Safer and Resilient at Scale* | |
| 13:00 – 14:00 | Lunch and poster viewing | |

| 14:00 – 15:30 | *Parallel workshop sessions (5 minute presentations, followed by debate)* | |
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| | **Lecture Theatre 1: Methods for multi-hazard risk assessment and resilience** *Rapporteurs: Kai Wang & Rohit Adhikari* | **Lecture Theatre 2: Transformative technologies for improved decision-making** *Rapporteurs: Ahsana Vatteri & Marco Baiguera* |
| | Edris Alam, University of Chittagong, Bangladesh. *Disasters and Community Resilience in Chittagong, Bangladesh* | Beatrice Monteleone, IUSS Pavia, Italy (by CC). *An Innovative Tool for Near-Real Time Drought Detection for Risk Financing Mechanism* |
| | Dexter Lo, Xavier University, Philippines. *Cagayan de Oro: Resilient, but at Risk?* | Alastair Clarke, AIR Worldwide. *The Implication of an Observed Climate Trend on Typhoon Risk and Financial Loss* |
| | Ramesh Guragain, NSET Nepal. *Linking Science and Technology for Disaster Risk Management: NSET Experience* | Roberto Gentile, UCL, UK. *Multi-Criteria Decision Making for Optimal Retrofit and Risk Transfer* |
| | Loren Lockwood, Housing Recovery and Reconstruction Platform (HHRP), Nepal. *Impact of Disaster Response on Risk Reduction – the Nepal EQ* | Joshua Macabuag, World Bank, UK. *Use of Machine-Learning and Other Techniques in the GRADE (Global Rapid Post-Disaster Damage Estimation) Methodology* |
| | Jonathan Essex, IMC Worldwide. *Climate Risk and Vulnerability Assessment* | |
| 15:30 – 16:00 | Break | |
| 16:00 – 17:00 | Closing session: Rapporteurs (Lounge Area) | |
| 17:30 – 20:00 | Pre-registered dinner near Here East | |

## Wednesday, 3rd July

| 10:00 – 10:20 | Welcome (Lounge Area) |
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| 10:20 – 10:50 | Plenary speakers – Innovations in Disaster Risk Reduction and Resilience |
| | **Andrea Dall'Asta, University of Camerino, Italy. *Seismic Robustness and Resilience in Passive Control of Constructions*** |
| | **Gordon Woo, RMS. *Cost-Effectiveness of a California Earthquake Early Warning Sytem*** |
| 10:50 – 11:30 | **Dilanthi Amaratunga, University of Huddersfield, UK & Andres Winston Oreta, De La Salle University, Manila, Philippines. *Localising Strategies for Making Cities Resilient to Disasters*** |
| | **Evangelos Ntontis, Canterbury Christ Church University, UK. *Building Community Resilience to Climate Crisis: The Role of Group Psychology*** |
| 11:30 – 11:45 | Break |

| 11:45 – 13:00 | Parallel workshop sessions (5 minute presentations, followed by debate) | |
|---|---|---|
| | **Lecture Theatre 1: Innovations in disaster risk reduction and resilience** *Rapporteurs: Victor Melatti, Roberto Gentile, Fernando Gutierrez* | **Lecture Theatre 2: Community Resilience** *Rapporteurs: Juan Palomino & Felipe Rivera Jofre* |
| | Anastasio Sextos, University of Bristol, UK. *Seismic Safety and Resilience of Schools in Nepal* | Andrew Powell, Save the Children. *Community Resilience – Gaps and Where Further Research-Practice can Support* |
| | Daniel Raizman & Luis Sousa, AIR Worldwide, USA and UK. *The Role of Catastrophic* | Cassidy Johnson, UCL. *Why do Development Decision Create Disaster Risks? Paper Plans v* |

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| | *Modelling: Accuracy vs Precision* | *Actual Building Practices in Karonga, Northern Malawi* |
| | John Wardman, AXA-XL, UK. *Contemporary Catastrophe Modelling: Accuracy vs Precision* | Richard Haigh, University of Huddersfield, UK. *Community Preparedness for Tsunami Early Warning in the Indian Ocean Region* |
| | Gemma Cremen, University of Bristol, UK. *Understanding and Advancing Earthquake-Induced Loss Prediction* | Fathimath Rasheed, Riyan Ltd., Maldives. *Resilience inIsland Communities* |
| | Karim Tarbali, Politecnico di Milany, Italy. *An Alternative Pathway to Address Uncertainty in Seismic Hazard Using Physics-Based Simulations* | |
| 13:00 – 14:00 | Crescenzo Petrone, Wills Tower Watson, UK. *Use of 3D Simulation in Loss Estimates and (Re)Insurance Decision-Making* | |
| | Lunch and poster viewing | |

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| | Christian Malaga Chuquitaype, Imperial College, UK. *Low-Cost Sensing* | Helene Joffe, UCL. *Understanding & Changing Disaster Preparedness: The Fix-It Intervention* |
| | Stergios Mitoulis, University of Surrey, UK. *Resilience of Transport Infrastructure Exposed to Multiple Hazards. Case Study on Bridges* | Rina Suryani Oktari, TDMRC, Syiah Kuala University, Indonesia. *Community Resilience Elements and Community Risk Perception towards Disasters: a Case Study of Coastal Communities in Banda Aceh, Indonesia* |
| | Andre Ramos Barbosa, University of Bristol, UK. *Rocking Systems, Spine Systems and Energy Dissipation Devices* | Alessandro Massazza, UCL. *Psychological Reactions During Disaster* |
| | Enrico Tubaldi, Strathglide University, Glasgow, UK. *Improving the Seismic Resilience of Buildings by Enhancing the Performance of Infill Walls* | Priyan Dias, University of Moratuwa, Sri Lanka. *Community Resilience: Boxing Day 2004 vs Easter Sunday 2019* |
| | Luigi Di Sarno, University of Liverpool, UK. *Structures with Supplemental Damping* | |
| | Agathoklis Giaralis, City University London, UK. *Inerter-Based Vibration Control for Seismic Resilience of Buildings* | |
| 15:30 – 16:00 | Break | |
| 16:00 – 17:00 | Closing session: Rapporteurs (Lounge Area) | |

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