

i-Rec2008 PROGRAMME

Wednesday 30 April – 2nd May 2008, Christchurch

Wednesday 30th April 2008, Hotel Grand Chancellor, Christchurch

8:00 am 9:00 am Registration

9:00 am 9:30 am Session 1: Introduction and Welcome

Welcome and house keeping - Erica Seville

Opening Address by the Minister of Civil Defence – Hon. Rick Barker

9:30 am 10:15 am Session 2: Plenary Session - Keynote Presentation

Habitability of Homes after a Disaster

David Middleton^{1*},

¹New Zealand Earthquake Commission,

10:15 am 10:45 am Coffee Break

10:45 am 12:25 pm 2 Parallel Sessions

Session 3a Chair: David Brunson

The Role of Property Construction Professionals in Major Disaster Management

Clive Warren^{1*}, Graham Matthews²,

¹University of Queensland, ²Royal Institution of Chartered Surveyors(London)

The DASS42 Plus

Regan Potangaroa^{1*}, Aditi Ghosh²,

¹Unitec, ²CARE India,

Post-disaster Resource Availability following a Wellington Earthquake: Aggregates, Concrete and Cement

Bhesram Singh¹, Suzanne Wilkinson¹

¹University of Auckland,

Disposal of Debris following Urban Earthquakes: Guiding the Development of Comprehensive Pre-Event Plans

David Johnston^{1*}, Laurence Dolan⁰, Wendy Saunders¹, Bruce Glavovic²

¹GNS Science, ²Massey University,

Session 3b Chair: Erica Seville

From Gujarat to Tamil Nadu: Owner-driven vs. Agency-driven Housing Reconstruction in India

Jennifer Dwyne Barenstein^{1*},

¹ World Habitat Research Unit

Myths and Realities of Prefabrication for Post-Disaster Reconstruction.

Colin Davidson¹, Cassidy Johnson^{2*}, Gonzalo Lizzarralde¹

¹University of Montreal, ²University College, London,

An Overview of the Reconstruction Program after the Earthquake of Bam, Iran. Part II: After 3 Years

Mehran Gharaati K.^{1*}, Colin Davidson²

¹McGill University, ²University of Montreal

Celebrities and Post-disaster Reconstruction: Case of Bam Art Garden

Ali Asgary^{1*}, Ali Badry², Ali Hajinejad³, Mojtaba Rafieian⁴,

¹Emergency Management Programme, York University, ²University of Tehran, ³Sistan and Baloochestan University, ⁴Tarbiat Modares University,

12:25pm 1:25 pm Lunch Break

1:25 pm 2:10pm 4: Plenary Session - Keynote Presentation

Challenges for the Building Industry in Responding to a Major Disaster

Speaker to be confirmed

2:10 pm 3:25 pm 2 Parallel Sessions

Session 5a Chair: Suzanne Wilkinson

Community Housing in Post Disaster Area on Nias islands, Indonesia: Responding to Community Needs

Heracles Lang^{1*},

¹Rehabilitation and Reconstruction Agency for Aceh and Nias,

Sustainable Post-Disaster Reconstruction Projects in Remote Locations - Darfur Revisited

Linda Kestle^{1*}, Regan Potangaroa¹,

¹Unitec,

Perception of Earthquake Risk and Post-disaster Reconstruction: Comparative Study of Two Residential Neighborhoods on Different Socio-economic Status in Tehran

Seyed Ali Badri^{1*},

¹University of Tehran,

Session 5b Chair: Dave Brunson

Analysis of an Effective Reconstruction Process after the 2002 Molise Earthquake in Italy

Sonia Giovinazzi^{1*}, Stefano Podestà²,

¹University of Canterbury, ²University of Genoa, Italy,

The Challenge of Low-cost Housing for Disaster Prevention in Small Municipalities

Gonzalo Lizarralde^{1*},

¹Université de Montréal,

It Would Never Work from the Distance: Localizing Post-Disaster Recovery in Nias Islands, Indonesia

William Sabandar^{1*},

¹Indonesian Agency for Rehabilitation and Reconstruction of Aceh and Nias (BRR),

3:25 pm 3:55 pm Coffee Break

3:55 pm 5:10 pm 2 Parallel Sessions

Session 6a Chair: Suzanne Wilkinson

Towards a National Policy Framework for Post-Disaster Reconstruction in New Zealand

James Olabode Bamidele Rotimi^{1*}, Suzanne Wilkinson², Dean Myburgh³,

¹Civil Engineering Department, University of Canterbury, ²Civil & Environmental Engineering Department, University of Auckland, ³80/20 Options NZ Limited.,

The Application of a Prescriptive Framework for Recovery: the UK Experience

Lucy Easthope^{1*},

¹University of Hertfordshire,

A Structured Approach for Developing an Effective Emergency Preparedness and Disaster Response Plan for Contractors

Rizwan Ul Haque Farooqui¹

¹ Florida International University

Session 6b Chair: Richard Haigh

A Balancing Act: An Assessment of the Environmental Sustainability of Permanent Housing Constructed by the International Development Community in Post-Disaster Aceh.

R. M. Roseberry^{1*},

¹University of Sussex,

The Role of NGO'S in the Context of Post Disaster Housing in Turkey

Hakan Arslan^{1*}, Alper Unlar^{1*},

¹Istanbul Technical University, ²Istanbul Technical University,

Post Disaster Housing: Adding Insult to Injury

Lucy Easthope^{1*}, Eve Coles^{2*},

¹University of Hertfordshire, ²University of Leeds,

5:00pm 6:30 pm Welcome Reception

Thursday 1st May 2008, Hotel Grand Chancellor, Christchurch

8:30 am 9:15 am Session 7: Plenary Session - Keynote Presentation

The Barriers to Resilient Reinstatement of Flood Damaged Homes

David Proverbs^{1*}, Jessica Lamond¹,

¹University of Wolverhampton,

9:20 am 10:35 am 2 Parallel Sessions

Session 8a Chair: Dean Myburgh

From the Outside Looking In: Post-Katrina Recovery Lessons for Building Sustainable, Hazard-Resilient Communities

Bruce Glavovic^{1*},

¹Massey University,

Lessons Learned after 1998 and 2004 Earthquake in Posoče Region

Samo Gostiè^{1*}, Blaz Dolinsek¹,

¹Building and Civil Engineering Institute ZRMK,

Reducing Risk and Vulnerability – An Environment and Humanitarian Reconstruction Partnership

Anita van Breda^{1*}, Robert Laprade²,

¹World Wildlife Fund, ²American Red Cross,

Session 8b Chair: Suzanne Wilkinson

Uplift and Damage due to the Mw 8.7 Nias Earthquake on 28 March 2005

Richmond Beetham^{1*},

¹GNS Science

Building Design Information and Requirements for Crowd Safety During Disasters

Aysu Sagun^{1*}, Dino Bouchlaghem¹, Chimay J. Anumba²,

¹Loughborough University, ²Pennsylvania State University

Regional Riskscape: A Multihazard Loss Modelling Tool

Andrew King^{1*}, Rob Bell², Stefan Reese², Iain Matcham¹, David Heron¹, Roddy Henderson², Jim Cousins¹, Robin Pringle¹, Jochen Schmidt²

¹GNS Science, ²NIWA,

10: 35 am 11:05 am Coffee Break

11:05 am 12:20 am 2 Parallel Sessions

Session 9a Chair: Richard Haigh

Home in Muzaffarabad: The Building of Ambor Colony

Ian MacBurnie^{1*},

¹Ryerson University

Quick Deployment Disaster Shelters: Building Community Through Design

Rodney Adank^{1*}, Jake Snowdon²

¹Massey University, ²Massey University,

Drivers of Recovery: Tsunami Reconstruction in Aceh, Indonesia, Three Years On

Craig Thorburn^{1*}

¹Monash University

Session 9b Chair: Gonzalo Lizarralde

Enhancing the Capacity of Sri Lankan Higher Education Institutions to Meet Post Disaster Recovery Challenges

Kaushal Keraminiyage^{1*}, Dilanthi Amaratunga^{1*}, Richard Haigh^{1*},

¹Research Institute for the Built and Human Environment, The University of Salford, UK,

The Senses Workshop

Alfonso Solano^{1*},

¹Universidad Javeriana,

Development of Urban Planning Strategies and Architectural Conformity – A New University Curricula in Reducing the Risk to Disasters

Cristina Gociman¹, Elena Dinu¹

¹University of Architecture and Urbanism, Bucharest

12:20 pm 1:20 pm Lunch Break

1:20 pm 2:05pm Session 10: Plenary Session - Keynote Presentation

Disaster Risk Reduction and Post-Disaster Infrastructure Reconstruction

Dilanthi Amaratunga^{1*}, Roshani Palliyaguru¹, R Haigh¹,

¹University of Salford,

2:10 pm 3:30pm 2 Parallel Sessions

Session 11a Chair: Dean Myburgh

Impact Analysis of Natural Calamities on Infrastructure and Industries

Eun Ho (Daniel) Oh^{1*}, Makarand (Mark) Hastak^{1*},

¹Construction Engineering & Management in Civil Engineering, Purdue University,

Socially Embedded Relationships of Firms: An Aid to Recovery in a Vulnerable Community?

Felicity Powell^{1*},

¹Opus International Consultants,

Rebuilding Sustainable Livelihoods through Asset Development and Value Chain Development

Punyavan Vishaka Hidellage^{1*}, Jayantha Gunasekera^{1*},

¹Practical Action

A Critical Analysis of the Livelihood Rehabilitation Strategy implemented after the 2005 Pakistan Earthquake

Abdul Rehman Cheema¹

¹Massey University

Session 11b Chair: Regan Potangaroa

Houses or Homes? The Patterns of Design

Anna Russell^{1*}, Zhi Min Feng², Regan Potangaroa¹,

¹Unitec, ²de Lisle Jenkins Architects

The Role of Urban Change Hierarchies in Post-Disaster Recovery Management.

John Hewitt^{1*}, Regan Potangaroa¹, Suzanne Wilkinson²

¹School of Architecture (ScALA), Unitec New Zealand, ²Dept. of Civil & Environmental Engineering, Faculty of Engineering, The University of Auckland.

Deconstruction of Urban Spaces in Saudi Arabia

Yousef Neyazi¹,

¹King Abdulaziz University

Can Houses Learn?

Vicky Feng^{1*}, Anna Russell², Regan Potangaroa²,

¹de Lisle Jenkins Architects Ltd, ²UNITEC,

3:30 pm 4:00 pm Coffee Break

4:00 pm 5:30 pm Session 12: Meeting of CIB TG63

7:00 pm 10:00 pm Conference Dinner

Friday 2nd May 2008, Hotel Grand Chancellor, Christchurch

9:00 am 9:45 am Session 13: Plenary Session - Keynote Presentation

The Shelter Challenge: Promoting collaboration, supporting innovation

Graham Saunders

International Federation of Red Cross & Red Crescent Societies

9:50 am 11:05 am 2 Parallel Sessions

Session 14a Chair: Regan Potangaroa

Urban Design and Natural Hazard Mitigation

Wendy Saunders^{1*},

¹GNS Science,

Pre-event Recovery Planning for Land Use

Wendy Saunders^{1*}, Julia Becker^{1*}, Lesley Hopkins², Kim Wright¹

¹GNS Science, ²Beca Carter Hollings Ltd,

Waterfront planning: a window of opportunities for post-disaster reconstruction

Oriana Giovinazzi^{1*}, Sonia Giovinazzi,

¹Centro Internazionale Città d'Acqua, ²University of Canterbury,

Session 14b Chair: Suzanne Wilkinson

Lessons from Kobe on the Seismic Resilience of Long-Span Bridges

John Wilson^{1*},

¹McMaster University,

Enhancing the Reconstruction Process for Highway Networks: Opportunities and Challenges for Decision Support Systems

Sonia Giovinazzi^{1*}, Frederico Ferreira¹, André Dantas¹, Erica Seville¹,

¹University of Canterbury,

Learning from Hurricane Katrina: the case for Structural Insulated Panel Systems

Jacqueline McIntosh¹, **Matthew Fraser***,

¹Victoria University of Wellington,

11:05 am 11: 35 am Coffee Break

11:35 am 12:50 am 2 Parallel Sessions

Session 15a Chair: Gonzalo Lizarralde

Nature: the Natural Choice in Reconstruction Scenarios

Tiffany Greene¹

¹University of New England

A Disturbance Ecology Approach to Post-Cyclone Reconstruction in Pacific Island Settlements

Jacqueline Margetts^{1*}, Rod Barnett¹,

¹UNITEC,

Adapting Strategies to Meet Needs in Post-Disaster Reconstruction

Vishaka Hidellage^{1*}, Vasant Pullenayegem^{1*},

¹Practical Action

Session 15b Chair: Erica Seville

Partnership Approach for Better Health Care Provision on Post-Earthquake Area in Indonesia: the case of Gunungsitoli Hospital Revitalization on Nias islands

Astrid Kartika¹,

¹Rehabilitation and Reconstruction Agency for Aceh and Nias,

Lessons Learned from Canada: The Imperative to Build a Culture of Preparedness for Health Care Providers as First Responders

Carol Amaratunga^{1*},

¹University of Ottawa,

A proactive multi-stakeholder approach to attaining resilience in the UK

Lee Boshier^{1*}, Andy Dainty¹, Patricia Carrillo¹, Jacqueline Glass¹, Andrew Price¹,

¹Loughborough University

12:55 pm 1:15 pm Session 16: Closing Remarks – Suzanne Wilkinson

1:15 pm 2:00 pm Lunch Break

2:00 pm 4:00 pm Optional Tours of the University of Canterbury Civil Engineering Laboratories available