



**NANYANG
TECHNOLOGICAL
UNIVERSITY**

Institute of Catastrophe Risk Management



SEVENTH INTERNATIONAL SYMPOSIUM
ON CATASTROPHE RISK MANAGEMENT

PLUGGING THE NATURAL CATASTROPHE DATA GAP

- Thoughts to Action for NatCatDAX

21 April 2016, NTU, Singapore

Guest-of-Honour

MR BERNARD WEE

Executive Director

Financial Markets Development and
Payments and Technology Solutions

Monetary Authority of Singapore

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NatCatDax Alliance Founding Members:

7th International Symposium on Catastrophe Risk Management

Plugging the Natural Catastrophe Data Gap – Thoughts to Action for NatCatDAX

Thursday, 21 April 2016

Nanyang Executive Centre, Nanyang Technological University
Singapore

PROGRAMME

Opening Session

- 0830 Registration and Arrival
- 0930 **Welcome Greetings**
Prof Tso-Chien Pan
Executive Director, Institute of Catastrophe Risk Management, NTU
- 0935 **Opening Address**
Guest-of-Honour: **Mr Bernard Wee**
Executive Director, Financial Markets Development, and Payments and Technology Solutions, Monetary Authority of Singapore, Singapore
- 0945 **Presentation 1**
Challenges and Opportunities for NatCatDAX Establishment
Prof Haresh Shah
Founding Chairman, ICRM Int'l Advisory Board, NTU
Emeritus Member, Board of Trustees, NTU
Emeritus Professor, Stanford University
Founder & Senior Advisor, RMS Inc., USA
- 1000 **Morning Refreshment**

Session 1 – Perspectives on Existing Nat Cat Exposure and Loss Data

Session Chairman: **Mr Derek Wong**
Vice President, Renaissance Reinsurance Ltd, Singapore Branch

- 1030 **Presentation 2**
Big Data – Transforming Risk and Insurance
Mr George Attard
Head, Aon Benfield Analytics, International, Aon Benfield, Singapore
- 1050 **Presentation 3**
Munich Re's NatCatSERVICE Database: New Methods to Normalize Losses and Classify Event Intensities
Prof Peter Höppe
Head, Geo Risks Research/Corporate Climate Centre, Munich Re, Germany

- 1110 **Presentation 4**
Data Quality and Completeness for Cat Risk Management - A Global Insurance Company's View
Dr Sibylle Steimen
Head, Global Cat Risk Management, Allianz Re, Germany
- 1130 **Presentation 5**
Financing Population Displacement Costs in Southeast Asia – Data Needs
Dr Gordon Woo
Adjunct Professor, ICRM, NTU
Catastrophe Risk Consultant, RMS Inc., UK
- 1150 **Presentation 6**
Some Thoughts on Ways of Bridging the Insurance Protection Gap and Data Gap in Asia
Prof Shaun Wang
Professor, Nanyang Business School (NBS), NTU
Director, Insurance Risk and Finance Research Centre, NBS, NTU
- 1210 **Q&A and Presentation of Mementos**
- 1240 Lunch

Session 2 – NatCatDAX–Advanced Technologies to Bridge the Data Gap

Session Chairman: **Prof Domenico Giardini**
Chair, Seismology and Geodynamics, ETH, Zurich
President, International Association of Seismology & Physics of the Earth's Interior
Head, Swiss Competence Center on Energy Research – Supply of Electricity

- 1340 **Presentation 7**
Data Development and Analytics at RMS – A Look into Industrial Clusters in East Asia
Mr Adrian Mark
Senior Product Manager, RMS Inc., UK
- 1400 **Presentation 8**
QLARM: A Tool to Estimate Earthquake Losses
Prof Max Wyss
Science Expert, International Centre for Earth Simulation Foundation, Geneva, Switzerland
Emeritus Professor, University of Alaska, USA

1420	Presentation 9 Synthetic Aperture Radar Technology for Developing Urban Exposure Data Prof Fumio Yamazaki Department of Urban Environment Systems, Graduate School of Engineering, Chiba University, Japan
1440	Presentation 10 Challenges and Design of Parametric Triggers Dr Petr Puncochar Head, Flood Model Development, Impact Forecasting, Aon Benfield, Singapore
1500	Presentation 11 Natural Catastrophe Risk Data Acquisition, Analysis and Use: Indonesian Insurance Industry Perspective Dr Frans Sahusilawane President & CEO, PT Reasuransi Indonesia Utama (Persero), Jakarta, Indonesia
1520	Presentation 12 Filling in the Gaps - What We Need to Know to Build Robust Global Exposure Models Mr Ronald Eguchi President & CEO, ImageCAT Inc., USA
1540	Q&A and Presentation of Mementos
1610	Afternoon Refreshment

Session 3 – NatCatDAX

Session Chairman: **Dr Pane Stojanovski**
 Adjunct Professor, ICRM, NTU, Singapore
 Founder, CatRisk Research, USA

1630	Presentation 13 Plugging The Data Gap – The PERILS Experience Dr Eduard Held Head Products, PERILS AG, Zurich, Switzerland
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1650	Presentation 14 NatCatDAX@ICRM Prof Tso-Chien Pan Executive Director, Institute of Catastrophe Risk Management, NTU
1710	Panel Discussion Panel Chairman: Assoc Prof Edmond Lo , Deputy Director, Institute of Catastrophe Risk Management, NTU Panelists: <ol style="list-style-type: none"> Prof Haresh Shah, Founding Chairman, ICRM International Advisory Board, NTU; Emeritus Member, Board of Trustees, NTU; Emeritus Professor, Stanford University; Founder & Senior Advisor, RMS Inc., USA Dr Frans Sahusilawane, President & CEO, PT Reasuransi Indonesia Utama (Persero), Jakarta, Indonesia Mr George Attard, Head, Aon Benfield Analytics, International, Aon Benfield, Singapore Prof Peter Höppe, Head, Geo Risks Research/ Corporate Climate Centre, Munich Re, Germany Mr Ronald Eguchi, President & CEO, ImageCAT Inc., USA Mr Randy Liu, General Manager, MS Frontier Re Modeling Research, Singapore Ms Anne-Claire Serres, Head of Natural Catastrophe Underwriting, Asia Capital Re, Singapore
1750	Closing Remarks Prof Tso-Chien Pan Executive Director, Institute of Catastrophe Risk Management, NTU
1800 to 1900	Cocktail (NEC Auditorium Foyer)

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