

Advances of International Collaboration on M9 Disaster Science
~Progress reports ~

Organized by IRIDeS/TU¹, UW² and CIGIDEN³

8:30~10:00, November 12, 2019
Shirakashi 1, Sendai International Center

Scientific program

Chair: Elisabeth Maly (IRIDeS/TU, Japan)

1. Opening remark by Randall J LeVeque (Department of Applied Mathematics, UW, USA) [5 min]
2. Towards a comparative framework of adaptive planning and anticipatory action regimes in Chile, Japan and the US: an exploration of multiple contexts informing risk-based planning and relocation in coastal areas
Naoko KURIYAMA* (Department of Architecture, Kobe University, Japan) [10 min]
3. Robust Adaptive Plans, using both Gradual and Sudden Coastal Change Scenarios in Washington State: Integrating Sea Level Rise and Tsunami Inundation Models at the Community Level
Dan Abramson* and Lan Nguyen* (Urban Design and Planning, Architecture and Landscape Architecture, College of Built Environments, UW, USA) and Ann Bostrom (Evans School of Public Policy, USA) [15 min]
4. Chile after the 2010 earthquake and tsunami: reconstruction efforts and paths to the future
Jorge Leon* (Department of Architecture, Universidad Tecnica Federico Santa Maria, Valparaiso and CIGIDEN, Chile) [10 min]
5. Incorporating PTHA methods in a tsunami early warning system
Jorge Leon* in place of Patricio Catalan (Universidad Federico Santa Maria and CIGIDEN, Chile) [5 min]
6. Advances of real-time tsunami inundation and damage forecast - present and future
Shunnichi Koshimura* (IRIDeS/TU, Japan) [10 min]
7. Experimental and numerical evaluation of tsunami loads on vertical evacuation structures
Michael Motley* (Department of Civil and Environmental Engineering, UW, USA) [10 min]
8. Simulation-based surrogate model for probabilistic tsunami risk assessment and two-scale tsunami simulation
Kenjiro Terada*, Shuji Moriguchi and Yuya Yamaguchi (IRIDeS/TU, Japan) [10 min]
9. Discussions (Qs and As) by Kenjiro Terada [12 min]
10. Closing remark by Shunichi Koshimura [3 min]

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² University of Washington (<https://www.washington.edu/>), M9 Project (<https://hazards.uw.edu/geology/m9/>)

³ Research Center for Integrated Disaster Risk Management (<http://cigiden.cl/en/>)