



International Workshop on the 2011 Tohoku-oki tsunami deposits

8 March 2013

Room 101, Engineering Laboratory Complex Building, Tohoku University,
Sendai, Japan

<http://www.eng.tohoku.ac.jp/english/map/?menu=campus&area=c&build=10>

Program

8:25-8:30 Opening remarks (Fumihiko Imamura)

<Session 1> Lessons learned from the 2011 Tohoku-oki tsunami event

Chair: Bruce Jaffe, Daisuke Sugawara

8:30-8:55 **Bruce Richmond (US Geological Survey, USA):** *How does erosion and deposition associated with the Japan Tohoku-oki tsunami compare with recent tsunamis in Chile and Samoa*

8:55-9:20 **Witold Szczuciński (Adam Mickiewicz University, Poland):** *Sediment sources and postdepositional changes - limitations of tsunami deposits identification*

9:20-9:45 **Catherine Chagué-Goff (University of New South Wales & ANSTO, Australia):** *Geochemical proxies and their value in recent and palaeo-tsunami research*

9:45-10:00 Break

10:00-10:25 **Yuichi Nishimura (Hokkaido University, Japan):** *Onshore behavior of the 2011 Tohoku tsunami and the resultant geological changes at various types of coasts*

10:25-10:50 **Kazuhisa Goto (Tohoku University, Japan):** *Empirical relationship between the 2011 Tohoku-oki tsunami hydrodynamic features and deposits*

10:50-11:15 **Kentaro Imai (Tohoku University, Japan):** *Damage of coastal forest and sediment transport along the Sendai Plain by the 2011 Tohoku-oki tsunami*

11:15-11:40 **Hitoshi Tanaka (Tohoku University, Japan):** *Recovery of coastal and estuarine morphology after the 2011 Tohoku Tsunami --Cause of complete and incomplete recovery--*

11:40-13:00 Lunch



<Session 2> Offshore tsunami deposits and turbidites

Chair: Bruce Richmond, Ken Ikehara

- 13:00-13:25 **Ken Ikehara (AIST, Japan):** *Surface sediments on the Sendai shelf: Did we find the influence of the 2011 tsunami?*
- 13:25-13:50 **Tomohisa Irino (Hokkaido University, Japan):** *Burial of radioactive nuclides by earthquake induced turbidite*
- 13:50-14:15 **Kazuko Usami (AIST, Japan):** *Benthic foraminiferal evidence on origin of submarine earthquake/tsunami deposits by the 2011 off Tohoku earthquake and tsunami*
- 14:15-14:40 **Hajime Naruse (Kyoto University, Japan):** *A turbidity current generated immediately after the 2011 Tohoku-Oki Tsunami: Its origin and hydraulic properties*
- 14:40-14:55 Break

<Session 3> Paleo-tsunami deposits at the Pacific coast of Tohoku

Chair: Witold Szczuciński

- 14:55-15:20 **Masanobu Shishikura (Geological Survey of Japan, AIST, Japan):** *Reconstruction of the 869 Jogan tsunami and its reexamination by comparing with the 2011 Tohoku tsunami*
- 15:20-15:45 **James Goff (University of New South Wales, Australia):** *How big and how often? Contributions from the geomorphological record of the Sendai Plain and northern Honshu*

<Session 4> Numerical modeling

Chair: Catherine Chagué-Goff

- 15:45-16:10 **Daisuke Sugawara (Tohoku University, Japan):** *Numerical simulation of sediment transport by the 2011 Tohoku-oki earthquake tsunami at Sendai Plain*
- 16:10-16:35 **Bruce Jaffe (US Geological Survey, USA):** *Interpreting Tsunami Size and Speed from Modeling of Deposits*
- 16:35-16:50 Break

<Session 5> Future directions and discussion

Chair: James Goff, Kazuhisa Goto

- 16:50-17:15 **Junichi Uchida (Japan Nuclear Energy Safety, Japan):** *JNES research projects on tsunami deposit and their objects*
- 17:15-17:45 Discussion
- 17:45-17:50 closing remarks (Kazuhisa Goto)
- 18:00-20:00 Dinner party at Tohoku Univ.

Sponsor: International research Institute of Disaster Science, Tohoku University
Co-sponsor: The Geological Society of Japan, Sedimentological Society of Japan