



14-18 March 2015
Sendai, Japan

WCDRR Public Forum, Side Event:

„Environmental Supercomputing and Disaster Risk Reduction“

<http://www.wcdrr.org/conference/events/696>

Venue: Tohoku University Room N°: C106
Date: Sunday 15 March 2015, 09:00 - 12:00
Access: Open to the public

The initiative will support exchange of experiences, best practices and requirements across different disciplines and stakeholder groups. The foundations of the initiative are the experiences gained from numerous large-scale projects applying high performance computing (HPC), distributed computing, and big data approaches to different fields of environmental modeling such as hydrometeorology, seismology and hydrology. These R&D activities have repeatedly demonstrated the potential for major improvements in the accuracy, flexibility and speed the modeling and analysis results can be produced. However, experience has also highlighted the need for much tighter coupling between the researchers in different fields, organizations with operational responsibilities (e.g. in civil protection) and the policy level actors on the global, national and regional levels. Benefits of all of these new technical capabilities can be realized only if all stakeholders share a common, basic body of knowledge related tools, services and data resources - and the ways they can be combined in a coherent and efficient manner. Initial pilot activities are being launched, and an engagement process with a broad range of potential stakeholders is ongoing. As part of this engagement process, the CIMA Foundation, Italy, and the Leibniz Supercomputing Centre (LRZ), Germany are inviting interested parties to join in to shape the initial vision, mission and approach in this workshop

9.00 – 10.00 Welcome and Opening

- Dieter Kranzlmüller, „Introduction, Background, Goals“
- Prof. Dr. Kenji Satake, „Assessment, Strategy And Risk Reduction for Tsunamis in Europe - New Directions for Tsunami Research in Europe“

10.00 – 10.50 Technology

- Antonio Parodi, „The DRIHM* Project Series“
- Roberto Rudari, „RASOR“
- Matti Heikkurinen, „Environmental Computing as a Technical Concept“
- Lydia Cumiskey, Deltares, „RISC-KIT“

10.50 – 11.40 Applications and Impact

- Kuniyushi Takeuchi, PEARL (<http://www.pearl-fp7.eu>)
- Amelie Vagner, „Mitigate and Assess risk from Volcanic Impact on Terrain and human Activities (MiAVITA)“
- Dieter Kranzlmüller, „Organizing Environmental (Super-)Computing“

11.40 – 12.00 Discussion and Wrap-up

Organizers:

CIMA Research Foundation
(www.cimafoundation.org)

Leibniz Supercomputing Centre (LRZ) of the
Bavarian Academy of Sciences and Humanities
(www.lrz.de)

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