

# Monday 17 January 2011

08:00-09:00 Workshop registration

## 09:00-10:30 Session 1

Chair: A Kijko

09:00 - 09:15 **E Madela-Mntla**  
ICSU ROA, South Africa  
*Welcome from the International Council for Science Regional Office for Africa*

09:15 - 09:30 **A Kijko**  
Aon Benfield Natural Hazard Centre, University of Pretoria, South Africa  
*Welcome from the Aon Benfield Natural Hazard Centre*

09:30-10:00 **A Ismail-Zadeh**  
International Union of Geodesy and Geophysics, Karlsruhe, Germany  
*Extreme Natural Hazards and Societal Implication: an ICSU project*

10:00-10:30 **J Rovins**  
Integrated Research on Disaster Risk IPO, Beijing, China  
*Integrated Disaster Risk: From Research to Practice*

10:30-11:00 Tea/Coffee

## 11:00-13:00 Session 2

Chair: V Gusiakov

11:00-11:30 **A Enow**  
ICSU Regional Office for Africa, Pretoria, South Africa  
*Addressing the Challenges of Hazards and Disasters in Africa: ICSU ROA Strategy*

11:30-12:00 **C Vogel**  
University of the Witwatersrand, Johannesburg, South Africa  
*Forin or Farout? Exploring Multiple Drivers of Disaster Risks in Southern Africa*

12:00-12:30 **R Pinho**  
GEM Foundation, Pavia, Italy  
*The Global Earthquake Model (GEM) - Uniform and Open Standards to Calculate and Communicate Earthquake Risk*

12:30-13:00 **P Löw**  
Geo Risks Research, Munich Reinsurance, Munich, Germany  
*Hitting the Poor - Impact of Natural Catastrophes in Economies at Various Stages of Development*

13:00-14:00 Lunch

**14:00-16:00      Session 3      Chair: A Ismail-Zadeh**

- 14:00-14:30    **R Backhaus**  
UN-SPIDER, Bonn, Germany  
*Natural Disasters and Space Technology Application: How UN-SPIDER Bridges the Gap*
- 14:30-15:00    **M Faye**  
UNEC for Africa, Addis Ababa, Ethiopia  
*Space-based Solutions for Disaster Management and Emergency Response for Africa*
- 15:00-15:30    **E Khamala**  
RCMRD - Regional Center for Mapping of Resources for Development, Kenya  
*Early Warning Systems in Eastern and Southern Africa: The Role of RCMRD*
- 15:30-16:00    **S Briceño**  
UN-ISDR, Geneva, Switzerland  
*The International Strategy for Disaster Reduction and the Hyogo Framework for Action (2005-2015): Essential Tools for Meeting the Challenges of Extreme Events and Climate Change*

16:00-16:15    **Tea/Coffee**

**16:15-17:15      Session 4      Moderators: S Briceño, J Rovins**

16:15-17:15    **Discussion: *Disaster Risk Reduction and Mitigation in Africa: Current State and Perspectives***

18:00            **Cocktail**

## Tuesday 18 January 2011

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09:00-10:30 **Session 5**

Chair: R Durrheim

09:00-09:30 **K Moffatt**  
University of Cambridge, UK  
*Fluid Dynamics and Geophysics of Environmental Hazards*

09:30-10:00 **V K Gusiakov**  
Russian Academy of Sciences, Novosibirsk, Russia  
*Tsunami Impact on the African Coast: Historical Cases and Future Hazard Assessment*

10:00-10:30 **I Zaliapin**  
University of Nevada, Reno, USA  
*Hierarchical Network Approach to Modeling Extreme Events*

10:30-11:00 **Tea/Coffee**

11:00-13:00 **Session 6**

Chair: D Benouar

11:00-11:30 **A Kijko**  
University of Pretoria, Pretoria, South Africa  
*"Black Swan" events - events beyond the realm of expectations*

11:30-12:00 **A Ismail-Zadeh**  
Karlsruhe Institute of Technology, Germany  
*Extreme Seismic Events: From Modeling and Prediction to Preventive Disaster Management*

12:00-12:30 **G Yirgu Abegaz**  
Addis Ababa University, Ethiopia  
*Recent Eruptions in the Afar Rift: Hazards in the Making*

12:30-13:00 **G Papadopoulos**  
National Observatory of Athens, Greece  
*Large Earthquakes and Tsunamis in the Mediterranean Segment of North Africa*

13:00-14:00 **Lunch**

**14:00-16:00 Session 7**

**Chair: A Abdel Hady**

- 14:00-14:30 **A Diongue-Niang**  
Senegal Meteorological Agency, Dakar Senegal  
*THORPEX-Africa and the High-Impact Weather Information System*
- 14:30-15:00 **B Morel**  
University of Reunion, Saint-Denis, Reunion  
*Analysis of the 1997 Floods over East and Central Africa*
- 15:00-15:30 **A Abdel Hady**  
Cairo University, Giza, Egypt  
*Climate Change Hazard and the River Nile*
- 15:30-16:00 **M Majodina**  
South Africa Weather Service, Pretoria, South Africa  
*Socio-Economic Impacts of Meteorological Phenomena in Africa*

16:00-16:15 Tea/Coffee

**16:15-17:15 Session 8**

**Moderators: A Diongue-Niang, A Ismail-Zadeh**

- 16:15-17:15 **Discussion: Modelling, Prediction and Mitigation of Natural Extreme Hazard and Capacity Building in Africa**

## Wednesday 19 January 2011

07:30-13:00 Guided Tour to Tswaing crater site  
Guide: Mr Danie Barnardo  
Council for Geoscience, Pretoria, South Africa

13:00-14:00 Lunch

14:00-16:00 Session 9

Chair: A Abel

14:00-14:30 **K Alverson**  
GOOS, IOC Ocean Observations and Services Section, UNESCO, Paris, France  
*The Role for Sustained, Global Ocean Observations in Preventing and Mitigating Disasters*

14:30-15:00 **A Abel**  
Université d'Abomey Calavi, Cotonou, Benin  
*Analysis of Human Issues Affecting Flood Disasters in West Africa*

15:00-15:30 **I A Elshinnawy**  
Coastal Research Institute, Alexandria, Egypt  
*Vulnerability to Climate Changes and Adaptation Assessment for Coastal Zones of Egypt*

15:30-16:00 **J N Kabubi**  
Kenya Meteorological Department, Nairobi, Kenya  
*Extreme Hydro-Meteorological Hazards in the Greater Horn of Africa (GHA): Challenges and Opportunities*

16:00-16:15 Tea/Coffee

16:15-17:15 Session 10

Moderators: I A Elshinnawy, K Alverson

16:15-17:15 Discussion: *Marine and Coastal Hazards in Africa: Risk Assessment and Impact Mitigation*

19:00-22:00 Workshop Dinner at Moyo Fountains, Pretoria

## Thursday 20 January 2011

09:00-11:00 **Session 11**

Chair: C J H Hartnady

- 09:00-09:30 **C. J. H. Hartnady**  
Umvoto, Muizenberg, South Africa  
*Earthquake and Tsunami Impacts on South Africa*
- 09:30-10:00 **D. Benouar**  
USTHB, Alger, Algeria  
*A Collaborative Programme in Capacity Development in Disaster Risk Reduction - Through African Universities*
- 10:00-10:30 **T. M. Randrianalijaona**  
University of Antananarivo, Madagascar  
*Madagascar: Coping with Disaster Risk and the Role of Capacity Building Programs*
- 10:30-11:00 **O. A. Ediang**  
Nigerian Meteorological Agency, Oshodi Lagos, Nigeria  
*Application of Remote Sensing in Disaster Management and Security Along the Coastline of Nigeria*

11:00-11:30 **Tea/Coffee**

11:30-13:00 **Session 12**

Discussion Leaders: A Ismail-Zadeh, A Kijko

11:30-13:00 General Discussion and Workshop Conclusion

13:00-14:00 **Lunch**