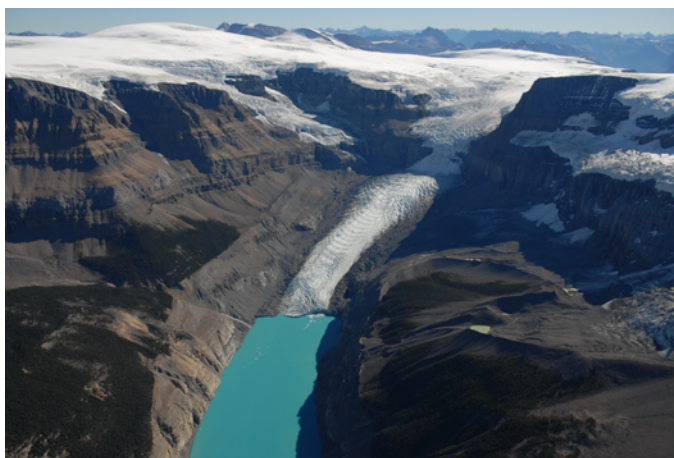


**Banff, Alberta Canada
October 15 - 19, 2012**

Storm Warning: Water, Energy and Climate Security IN A CHANGING WORLD.



The conference seeks to address six sources of significant uncertainty that will affect water, energy and climate security in a changing world. These elements include:

- ▶ **What is known and what is unknown about fluctuations in water availability and climate since Paleolithic times?**
- ▶ **What can be learned and what cannot be learned from models or forecasts of climate, based on 'downscaling' from global to local scales as well as insufficiently articulated feedback loops and other second order effects?**
- ▶ **What can be known about future water security by examining water and climate fluctuations in the context of glacial activity and changes in snow pack and snow cover over time?**
- ▶ **What is known and not known about the real costs of adaptation to extreme climate events?**
- ▶ **How are Asian nations contributing to addressing global water, energy and climate security?**
- ▶ **How can global as well as regional/local governance systems and legal regimes adapt to uncertainty in water availability and climate fluctuations?**

The desired outcome of this conference is to create leadership amongst the attendees and make recommendations regarding research areas for future funding and policies to address climate change to governments.

Registration

The conference will gather one hundred internationally known expert attendees to address six sources of significant uncertainty that will affect water, energy and climate security in a changing world.

The conference is by invitation only, should you be interested in participating, please complete and return the conference application.

Conference Application Below

Agenda

The conference agenda includes discussions on:

- Prehistoric and Historic Water and Climate Fluctuations
- Environmental Policy, Northwest Territories Perspective
- Climate Model 'Downscaling'
- Field trip to the Columbia Ice Fields
- Real Costs of Adaptation
- Transboundary Solutions in Sovereign Environments
- Asian View of the Global Climate Change Issues
- Climate and Groundwater Governance

Talk to Us

Conference Website is currently under development, check back for more information.

For additional information and discussion look for us here:

Facebook - Storm Warning Conference 2012

Twitter - @stormwarning12

Linkedin Group - Storm Warning 2012

Email - stormwarning2012@antian.ca

DRAFT AGENDA

Storm Warning: Water, Energy and Climate Policy Challenges October 15 - 19, 2012 Banff, Alberta, Canada.

Monday, October 15 th , 2012
<p>Opening Keynote Address & Welcome Reception Representative of the Government of Saskatchewan; (confirmation pending)</p> <p>Dr. Vianne Timmons, President of Regina University.</p>
Tuesday, October 16 th , 2012
<p>What is known and what is unknown about fluctuations in water availability and climate since Paleolithic times?</p> <p>Part 1: Prehistoric water and climate fluctuations. Dr. Danny Blair, University of Winnipeg</p> <ul style="list-style-type: none">- What do we know about climate variability over the last 100,000 years as it relates to water, energy and climate security in our time? <p>Part 2: Historic Water and Climate Fluctuations Dr. David Sauchyn, Prairie Adaptation Research Collaborative Regina University.</p> <ul style="list-style-type: none">- The effects of climate on water in the Canadian West over the last 1,000 years.
<p>Environmental Policy – The Northwest Territories Perspective The Honourable J. Michael Miltenberger, Minister of Environment and Natural Resources, Responsible for the Northwest Territories Power Corporation Government House Leader. (confirmation pending)</p> <ul style="list-style-type: none">- Integrating knowledge and Western science in addressing climate change effects on water in the Mackenzie River basin.
<p>What can be learned and what cannot be learned from models or forecasts of climate, based on “downscaling” from global to local scales as well as insufficiently articulated feedback loops and other second order effects?</p> <p>Part 1: Potential and limitations of climate model down-scaling Dr. Yang Zong Liang, Professor, Department of Geological Sciences, Jackson School of Geosciences, Texas University.</p> <p>Part 2: Uncertainties: Feedback Loops and Second-Order Effects Dr. Gordon Huang, Associate Dean of Engineering of the University of Regina.</p>
<p>Hosted Dinner Robert Sandford, EPCOR Chair of the Canadian Partnership Initiative in support of United Nations “Water for Life” Decade.</p> <p>The Snows of Yesterday and the Future Water Supply of the Canadian West</p> <ul style="list-style-type: none">- Rising mean temperatures are energizing the water cycle. Many of the established algorithms for forecasting how water will act in different circumstances no longer apply. We are entering a period in which water is going to do things we haven't seen it do before - for which no mathematics yet exist to make accurate predictive modelling possible. The loss of hydrological stationarity will affect water supply throughout the Canadian West with significant implications for everyone living downstream. In this highly graphic presentation, one of Canada's most respected policy experts will demonstrate what is happening to snowpack, snow cover and glacial ice in the Rocky Mountains and what changes in upland hydrology may mean in terms of downstream water supply and quality in the future. This presentation will lay the foundation for Wednesday's field trip to Lake Louise and the Columbia Icefield.

DRAFT AGENDA

Storm Warning: Water, Energy and Climate Policy Challenges October 15 - 19, 2012 Banff, Alberta, Canada.

Wednesday, October 17th, 2012
Fieldtrip & Introduction Dr. Shawn Marshall University of Calgary and Dr. Mike Demuth, Geological Survey of Canada. <ul style="list-style-type: none">- This amazing field trip will take conference participants into Canada's western mountain national parks. Ground-breaking glacial and hydrological research is being undertaken in Canada's western mountain national parks. In association with Parks Canada, researchers are conducting the first complete analysis of the volume of ice contained within the glaciers of the Rockies with the aim of being able to better determine the future water supply in the major rivers of Western North America. Out of this research we hope to learn the hydrological limits of the dry West. We may be able to better understand what the Western landscape can support, for it is water and not just natural resources that ultimately constrains sustainability on the Great Plains. It is water that makes the mountain and prairie West habitable. This unforgettable tour will be led by two of the lead scientists involved in this research.
Thursday, October 18th, 2012
Real Costs of Adaptation Part 1: Real costs of adaptation including catastrophic events. Shinji Kaneko, Ph.D, Professor, Chair of the Department of Development Policy and Vice-Dean Graduate School for International Development and Cooperation (IDEC), Hiroshima University (to be confirmed) Part 2: Urban Adaptation to Extreme Climate Events Michael D'Andrea, Director of Water Infrastructure Management with the City of Toronto. <ul style="list-style-type: none">- Climate changes and effects on urban infrastructures.
Transboundary Water Management in Sovereign Environments Dr. David Eaton, David Eaton, Ph.D., Bess Harris Jones Centennial Professor of Natural Resource Policy Studies, Lyndon B. Johnson School of Public Affairs, The University of Texas at Austin.
Asian View of The Global Climate Change Issues Part 1: Potential Role of China. Yongping Li, Resources and Environmental Research Academy North China Electric Power University Part 2: Potential Role of Other Asian Nations Eric Zusman, Ph.D., Climate Change Researcher, Climate Change Project Institute for Global Environmental Strategies (IGES)
Hosted Dinner Infrastructure Risk: Current and Future Risk Profiles for Planning Purposes Robert Trembley, Director of Research, Insurance Bureau of Canada
Friday, October 19th, 2012
How will global as well as regional/local governance systems and legal regimes adapt to uncertainty in water availability and climate fluctuations? Part 1: Global climate governance. Mr. James D. Marston, Vice President for Energy Programs and Director of the Texas Regional Office Environmental Defense Office. Part 2: Surface Water and Groundwater Governance Suzanne Schwartz, LLB, Director, Environmental Program Center for Public Policy Dispute Resolution The University of Texas School of Law.

The conference is by invitation only, however we recognize that there may be interested professionals who wish to participate. Please submit a condensed version of your Curriculum Vitae in addition to the information below.

An electronic application is available on the conference website www.stormwarning2012.ca or by email, please contact ann.clemensen@antian.ca

Deadline for application will be July 1, 2012, please submit your application to ann.clemensen@antian.ca Limited spots are available. Notice of participant acceptance to the conference will be sent by email by July 15, 2012.

Successful applicants will have the conference fees of \$800 CDN waived. The fees include conference materials, opening reception October 15, breakfast, lunch and nutrition breaks Oct 16-19, conference dinners on October 16 & 18 and the October 17 excursion to the Columbia Ice Fields.

1. General Information

Name (Given Name):

Surname (Family Name):

Travel to Calgary, Alberta Canada (return) is the responsibility of the participants. Transport to Banff will be provided.

The conference hotel is the Banff Park Lodge, a special rate of \$130.00 CDN plus taxes per night has been arranged. Some accommodation support may be available for those that require assistance. Do you require aid to participate? **Yes / No**

2. Employment Address

Company Name:

Address:

City:

Province/State/Territory:

Postal/ZIP code:

Country:

Telephone:

Facsimile:

Email:

3. Academic Experience

Teaching and research environment (e.g. classroom, field):

Number of years academic/research experience:

Subject Area:

4. Additional Information

Why do you wish to participate in the 2012 Storm Warning: Water, Energy and Climate Security in a Changing World Conference? (250 words maximum)
