Water, Peace and Global Security: Canada's Place in a Changing Water World

An exploration of the UN 2030 Sustainable Development Goals from the global - local water nexus perspective

Keynote speaker Robert Sandford with discussant Dr. Jon O'Riordan

Special remarks will be given by B.C. Lieutenant Governor, Honourable Judith Guichon

DATE: January 23, 2018

TIME: 2:30pm-3:45pm

LOCATION: University of Victoria,

David Strong Building (DSB) C116



Co-hosted by:

ersustainabilityproject

Rocky Mountain Books

After the talk, join us for the launch of their recently published book, The Hard Work of Hope. Location: TBD

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Water, Peace & Global Security: Canada's Place in a Changing World

A presentation by
R.W. Sandford
EPCOR Chair, Water & Climate Security
United Nations University
Institute for Water, Environment & Health





What is really happening? The Second Copernican Revolution

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What is really happening? A new geological epoch?

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Environment and Health

The 'Anthropocene' [or human-centered] geological epoch may be characterized by the collapse of natural systems' built-in resilience strategies, meaning human beings will take on even greater responsibility for environmental disruption and/or wellbeing...

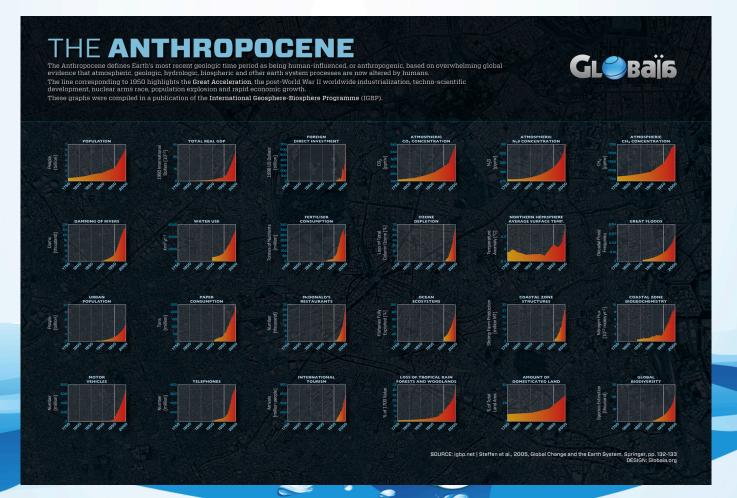




What is really happening? The Great Acceleration

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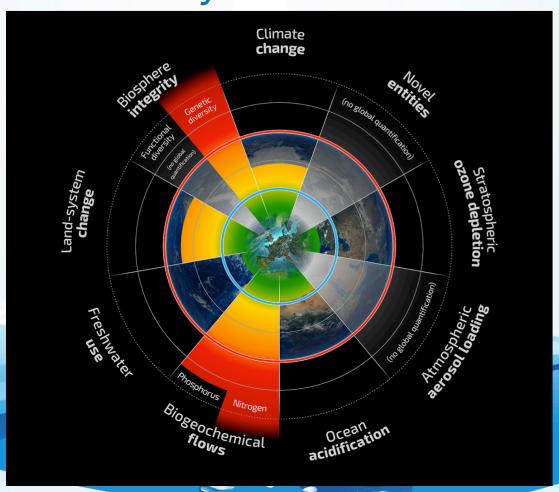






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What is really happening? Earth System Boundaries





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More water, moving more quickly through the global water cycle in a higher energy atmosphere.





So what does it mean for Canada?

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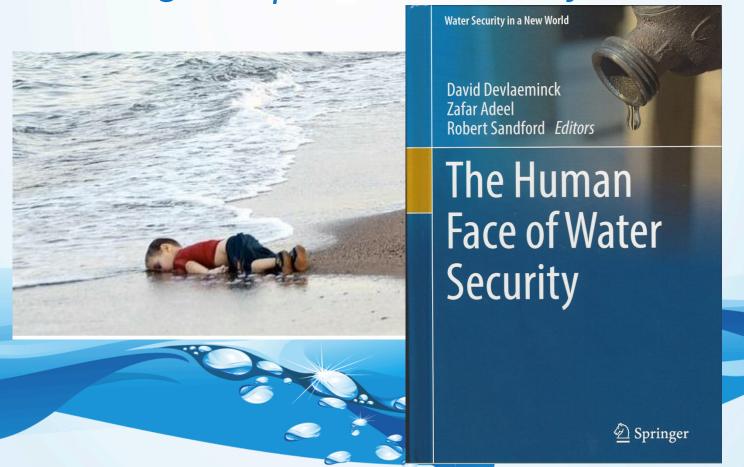
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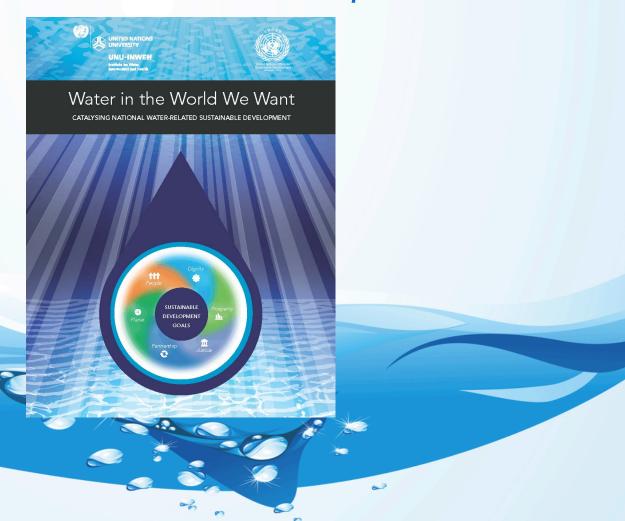
How will hydro-meteorological change affect

global peace and security?





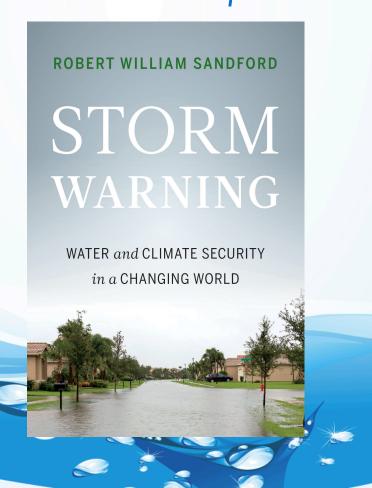
Water & sustainable development





Water Security & Climate Stability: We can adapt.

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Water Security & Climate Stability: We can create a better world





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Transforming Our World: Institute for Water, Environment and Health Creating a safe operating space for humanity







































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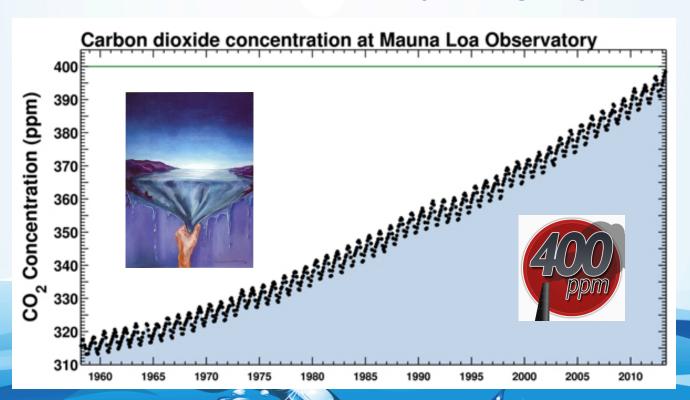




Follow the Water:

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Expect changing availability, temperature & quality of water & an accelerated hydrologic cycle







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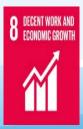






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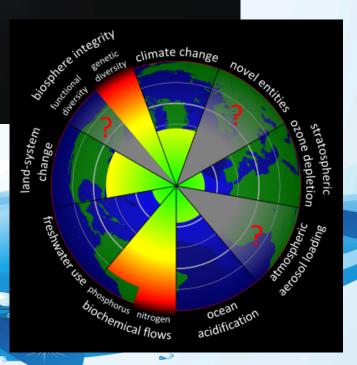
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It is time for a new discipline.



THE LANCET

#PlanetaryHealth







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UN Decade of Action Institute for Water, Environment and Health Water for Sustainable Development 2018 - 2028





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"Business as usual is not enough" Water for Sustainable Development 2018 – 2028

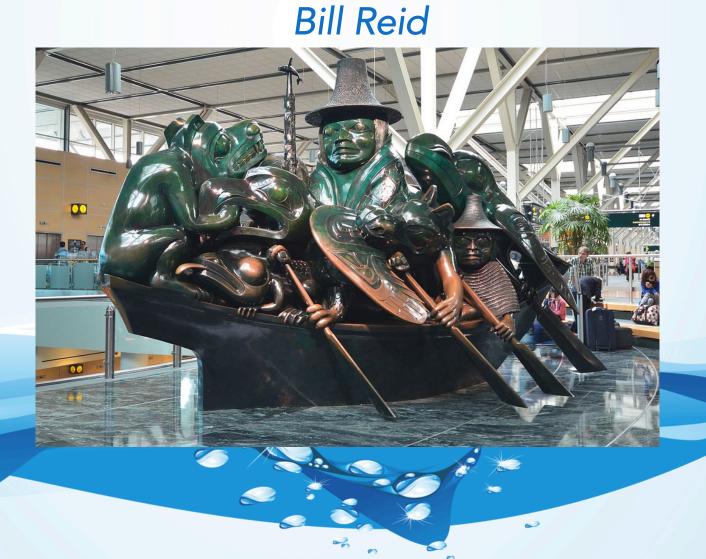
This is an opportunity to raise awareness, define a roadmap and advance the water agenda.

Antonio Guterres UN Secretary-General





The Black Canoe Institute for Water, Environment and Health





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Interaction between Climate and SD Goals

Jon O'Riordan
Polis and ACT Research Associate
Tuesday January 23, 2018

Linkage between Climate and SD Goals

- UN vision— carbon neutral planet by mid century.
 - 50% reduction in carbon; 50% increase in sequestration by 2050
- Doughnut economics- Kate Raworth
 - 'Safe' and 'just' Earth by linking climate vision (safe) with SD Goals (just)
 - Income inequality; health; food and water security must be tackled as well as climate
- Anthropocene will ratchet up pressure on these linkages

- Carbon reduction must be fully integrated with climate adaptation.
 - Low Carbon Resilience
 - Combine reduction with adaptation where possible
- Climate and SD policies must become central in future policy making
 - Trade; transportation; health; housing and immigration
 - Site C decision should be linked to Low Carbon pathways to 2060 (PICS) project
- Decision criteria should address higher risk profiles and increased user charges

- Focus on water security
 - Continuous change in hydro climatic conditions
 - Scale of impact ranges from regional to local
- New approach to water based planning
 - Mackenzie Basin Agreement
 - Water Use Plans
 - Nicola pilot on watershed management plans
 - Application to OCP renewals
- Policy shifts
 - Collaborative consent; environmental flows; science and monitoring; pricing water use
- Opportunities for restorative ecosystem based planning in the Columbia River Treaty negotiations

- Education and communications
- Public increasingly divided into tribal groups
 - Deniers; activists; sitting on shelf
 - Need to break self- reinforcing messages
- Experiential learning
 - Stewards for the Future program
 - Carbon tracking though internet of things
- Top down policies and bottom up adaptation
 - Switch to disruptive technologies made easy
 - Changes in consumer patterns

 more recycling

- Governance decision making
 - Current process is conflict riven with high transaction costs
 - Too many players have power over decisions
 - Prolonged delays in final decisions
- Need to align values associated with low carbon resilience
 - Policy alignment on renewable electricity grids
 - Shared decision making with indigenous groups
 - Great Bear Rain Forest example
 - Strategic decisions first then tactical decisions



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Book Signing & Reception

UNIVERSITY CLUB – 3800 Finnerty Road 4:00 PM

