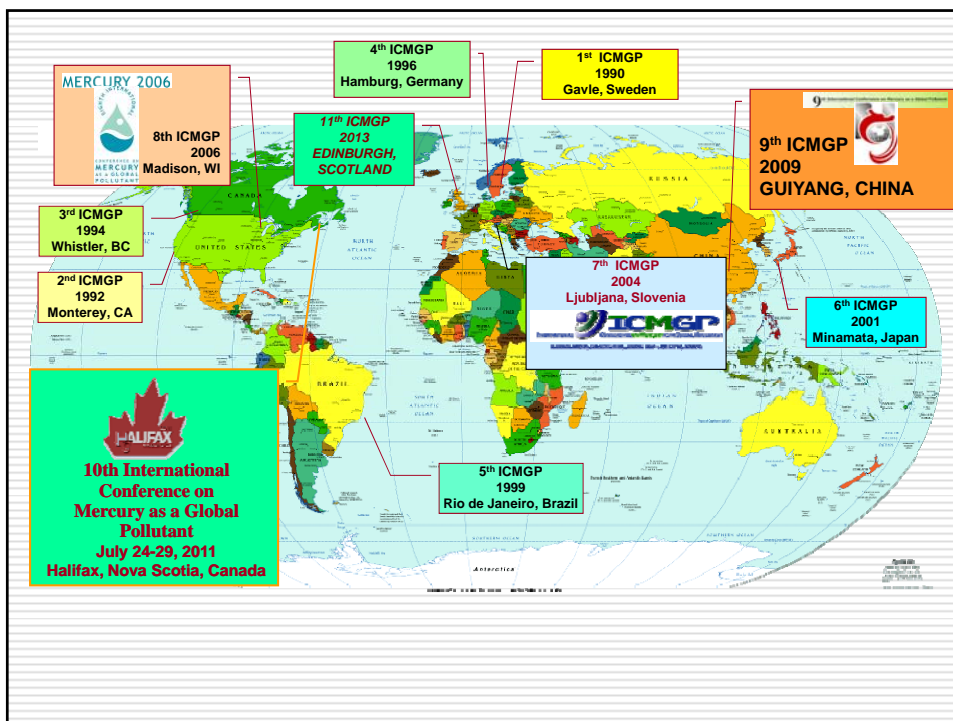




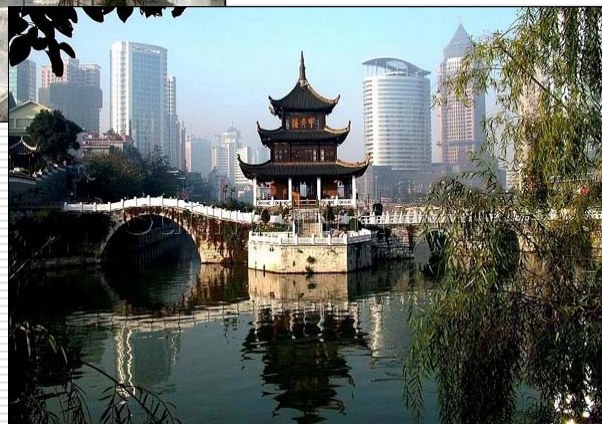
The INTERNATIONAL CONFERENCES On MERCURY as a GLOBAL POLLUTANT (ICMGP)

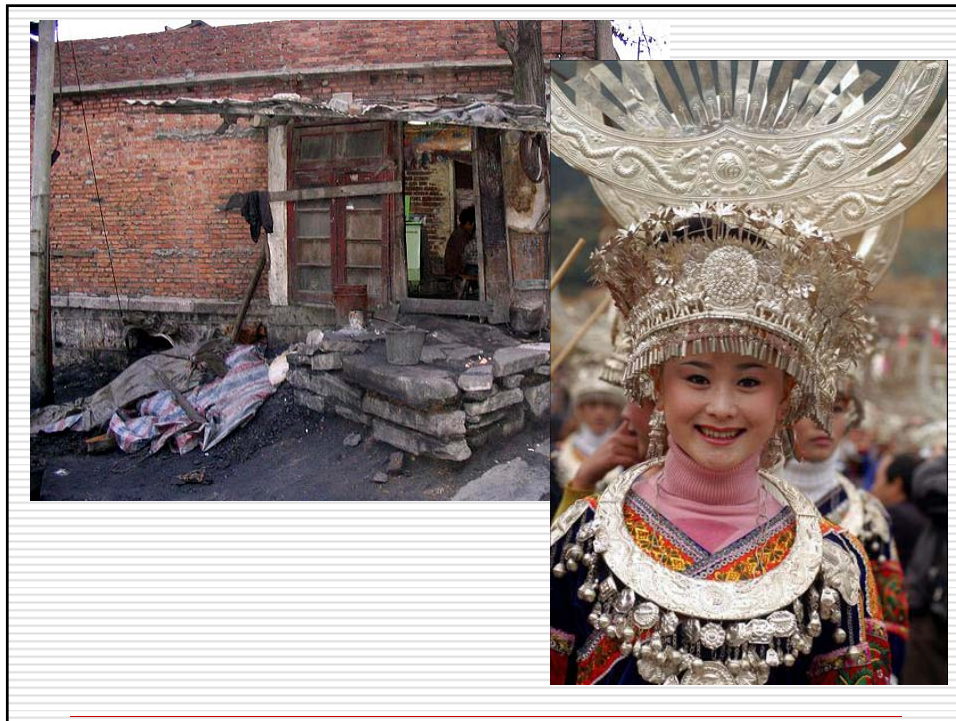
Leonard Levin
Electric Power Research Institute

2009 Mercury Science & Policy Conference
Chicago, IL
November 18, 2009



9th ICMGP, Guiyang, China: June 2009







Guizhou Great Hall of the People





KEY FINDINGS FROM GUIYANG

Freshwater systems

- Mercury exported from watershed reflects long-term deposition, storage in the ecosystem;
- DOM a controlling factor for Hg transport, transformation;
- Tied to vegetation decomposition and soil formation.

Marine environment

- High mercury input to Mediterranean from subsea volcanism

Bioaccumulation and trophic transfer

- Greater understanding of methylmercury accumulation in rice near China mercury mining sites

Wildlife

- Mercury health effects on fish evident at <1 ppm;
- Wildlife effects from exposure in impacted ecosystem extend far beyond ecosystem boundaries.

KEY FINDINGS FROM GUIYANG

Mercury and climate change:

- Timing, frequency of polar MDE respond to $\Delta(T, \text{wind, ice})$;
- Mercury accumulation rate in Arctic sediments \rightarrow increasing biological productivity due to warming $\rightarrow \Delta(\text{fish mercury})$

Pollution control & recovery:

- Life-cycle studies;
- Improved brominated carbon performance.

Emerging field – Mercury stable isotope fractionation:

- Major effort on mass-independent (odd-isotope) fractionation;
- Work on fractionation in natural processes (cycling, rainfall);
- Isotope tagging for methylmercury formation in shelf sediments, water column oxygen minima
- Hopes emerging for source type characterization



10th ICMGP Co-organizers



Brian Branfireun
University of Toronto



Michael Parsons
Natural Resources Canada



Alexandra Steffen
Environment Canada

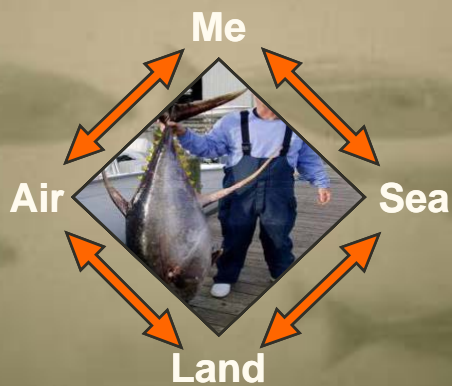
Vince St. Louis
University of Alberta



Elsie Sunderland
Harvard University

Conference Theme

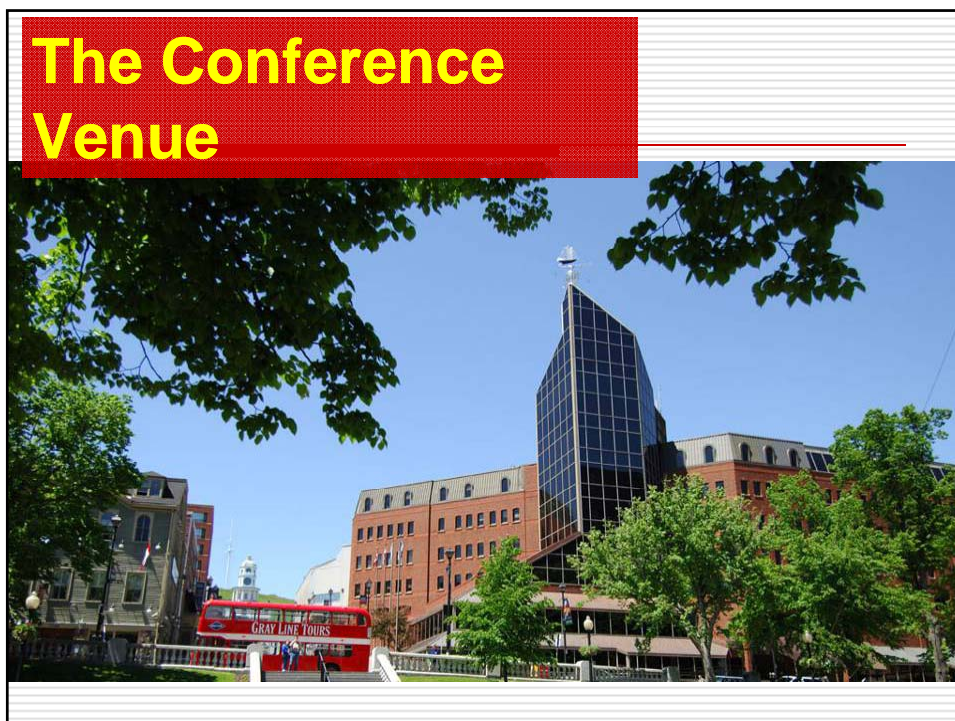
Air, Land, Sea and Me



Destination: Halifax & Nova Scotia



The Conference Venue



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(from Guiyang conference)



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**10th INTERNATIONAL CONFERENCE
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July 24-29, 2011, Halifax, N.S., Canada

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