



29th Annual Red River Basin Land & Water International

Summit Conference

January 24-26, 2012

The Fort Garry, Winnipeg, MB

Sponsored by: **Red River Basin Commission**

Tuesday, January 24

- 1:00 Welcome & Introductions**
Jon Evert, RRBC Chair
Greetings From Host Community
Mayor Sam Katz (invited)
- 1:30 Keynote Speaker: Gregory Gust**, National Weather Service, Grand Forks
- 2:30 Break and Exhibits**
- 3:00 Celebrating Successes in the Red River Basin Lightning Talks:**

The 2011 Lightning Talk session will offer an opportunity for those in the Basin to highlight specific success stories in a 5 minute lightning presentation. The topics will be presented as they relate to the 13 goal areas in the Red River Basin Commission's Natural Resource Framework Plan (NRFP).

NRFP Goals:

1. Watershed
2. Integration
3. Data & Technology
4. Education/Information
5. Flood Forecasting
6. Flood Damage Reduction
7. Flood Response & Recovery
8. Drainage
9. Water Quality
10. Water Supply
11. Soil Conservation
12. Fish/Wildlife
13. Outdoor Recreation

For more information on the NRFP, please visit our website at www.redriverbasincommission.org

- 5:00 Social and Exhibits**

Wednesday, January 25

- 7:30 Breakfast**
- 8:30 2011 Manitoba Flood: Steve Topping**, MB Water Stewardship
- 9:15 Break and Exhibits**
- 9:45 Recommendations for a Basin Approach to Finding Flooding Solutions Together (LTFS) Long Term Flood Solutions:**
- 1) **Needs and Process:**
Lance Yohe, Red River Basin Commission
 - 2) **Identification of What We Didn't Know, Development of Technical Data for LTFS:**
Bill Spychalla, Barr Engineering
 - 3) **Outcomes and Recommendations:**
John Jaschke, MN BWSR
 - 4) **Retention as a Cornerstone Basin Flood Solution Strategy:** Charlie Anderson, Widseth Smith Nolting
 - 5) **MB Flood Mitigation Strategy:**
Minister Christine Melnick, MB Water Stewardship (invited)
- 11:30 Lunch**

****Program Subject to Change**

Wednesday, January 25

12:45 Breakout Sessions

Session 1: Using Tools & Technology to Plan for the Future

- 1) **HMS Modeling:** **Chad Engels**, Moore Engineering
- 2) **2-Dimensional Modeling of the Pembina River Lower Floodplain: Simulations of Initial Scenarios:** **Thierry Faure**, National Research Council
- 3) **Use of Lidar Data and Hydrologic Modeling to Identify and Prioritize Water Retention Areas in the Red River Basin:** **Charles Fritz**, International Water Institute

Session 2: Taking Steps to Go Green

- 1) **Make Your Actions Count:** **Colleen Sklar**, Lake Friendly Initiative
- 2) **Minnesota Green Step Cities:** **Linda Kingery**, U of M Northwest Regional Sustainable Development Partnership

Session 3: Water Quality Planning

- 1) **Tools and Indicators for Watershed Planning:** **Jim Ziegler**, MN Pollution Control Agency
- 2) **Sediment Transport and Potential Geomorphologic Impacts, Fargo-Moorhead Metro Flood Risk Management Project, Feasibility Study:** **Barr Engineering**
- 3) **Finding Solutions for Netley-Libau Marsh**

Wednesday, January 25

2:00 Break and Exhibits

2:30 Devils Lake

- 1) **Infrastructure Protection:** **Jeff Frith**, Devils Lake Joint Water Resource Board
- 2) **Devils Lake Flood Challenges (downstream mitigation, state outlets and Tolna Coulee):** **Todd Sando**, North Dakota State Water Commission
- 3) **Devils Lake-Red River Basin Fish Parasite and Pathogen Project, Qualitative Risk Assessment**

4:00 Flooding on First Nations in Manitoba

4:30 Wednesday Presentations Conclude

5:30 Social and Exhibits

6:30 Banquet

- Awards
- Celebrate Successes
- Silent Auction



Long Term Flood Solutions

The 2009 spring flooding throughout the Red River Basin was the genesis of RRBC's LTFs Project. Record-level flooding, not only in the basin's second-largest metropolitan area of Fargo-Moorhead but also many other locations on the mainstem and tributary rivers, prompted the Minnesota and North Dakota Legislatures to action. Even before the flood clean-up was complete, those states charged RRBC with the responsibility of developing a basin-wide, comprehensive flood plan.

First, RRBC engaged the public throughout the basin by asking to hear first-hand what residents needed for protection through grass-roots forums, surveys and inventories from watershed and water resource districts. RRBC's Board, which includes water resource experts throughout the basin, then developed principles that could be agreed upon going forward, and levels of protection goals to chart plan's course.

The plan includes recommended actions and projects in the areas, modeling the basin to identify flow reduction goals and identifying potential for increased water retention, reducing impediments to progress, identifying the economic impact of the basin, identifying and developing ongoing sources of funding for projects, and initiatives for improved floodplain management.

The Long Term Flood Solutions project compiled and developed critical information which will provide basin managers with key tools to mitigate the effects of flooding and make the basin's communities more resilient. The recommendations and reported findings will be presented to the Minnesota and North Dakota legislatures.

Thursday, January 26

- 8:00 Breakfast/Annual Meeting**
(Meeting begins promptly at 8:00)
- 8:30 Lake Winnipeg Session**
- 1) Provincial Response:** Manitoba Water Stewardship (invited)
 - 2) The Role of Flooding in Eutrophication of Lake Winnipeg: Greg McCullough, PhD,** Centre for Earth Observation Science, University of Manitoba
 - 3) The Lake Winnipeg Bio-Economy Project: Dr. Henry David (Hank) Venema,** IISD
- 10:00 Break and Exhibits**
- 10:30 General Session**
- 1) Plains & Prairie Pothole Landscape Conservation Cooperative: Rick Nelson,** US Fish & Wildlife Service
 - 2) Assessment of the Fish Assemblages and Habitat Quality in the Red River of the North, 2010, U.S. Mainstem Portion: Wahpeton to Pembina, ND: Chris O. Yoder,** Midwest Biodiversity Institute
 - 3) Fargo-Moorhead Diversion - Moving Forward: Aaron Snyder,** US Army Corp of Engineers
- 12:00 Lunch-Conference Concludes**

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Please contact Leah at the Red River Basin Commission for ongoing sponsorship, exhibit and advertising opportunities.

Conference Lodging

The Fort Garry 204-942-8251

222 Broadway, Winnipeg, MB R3C 0R3

The rate is \$119 per room. To receive this rate, please refer to **Group Code: 109FS**. The block will be held until **December 22**, or until it is full.

KEYNOTE SPEAKER

Gregory Gust, Warning Coordination Meteorologist

The Great Flood Conspiracy... or is NeverLand, Never More?



Long ago, my Father remarked to me that we were short-lived people with even shorter memories. This was in response to my asking him why he made notations about crop year information along a wooden beam in one of our hundred year old (plus) granaries. That wooden beam held a running history of the home quarter's annual production, as well as a history of crop prices... both were items that spoke volumes about historical weather patterns as well as global economics... provided one wanted to read between those lines.

Mr. Gust began his public life as a farmer, educator, and citizen-soldier. He then received a commission in the United States Air Force (1984) and served as a Staff Weather Officer in various locations world-wide. Since 1999, Greg has worked to coordinate internal and external emergency communications and disaster response issues at local, national, and international levels. More recently he has led facilitator teams at International Stakeholder Fora, Climate Data Requirements Workshops, and multi-lateral hydro-meteorological meetings. Meanwhile, his work on communicating local flood concerns and providing decision support service earned him the 2011 NOAA Administrator's Award. His experiences are already rich and varied having encountered many extremes in temperatures, severe storms, and flooding.

Registration Form

Name _____

Position/Title _____

Organization/Business _____

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Conference Registration:

- Before Jan. 10, 2012** \$225
 After Jan. 10, 2012 \$250
 Bill Me Check Enclosed
 Bus \$50

- Registration includes entry to all conference sessions, exhibits, break-fasts, reception, lunches, banquet and refreshment breaks.
- Extra meals for guests are available for purchase at registration.
- Registrations not canceled by January 12 are required to pay the full conference fee.
- You may register on line at: www.redriverbasincommission.org
- Additional bus information can be found on the website above
- Credit card payments can be accepted for on-line registrations. We apologize, but we are unable to accept credit cards by phone or mail.

Border Crossing Requirements

As of June 1, 2009, Canadian citizens traveling to the U.S. must present one of the following travel documents as proof of identity and citizenship: Canadian Passport, Enhanced Driver's License/Enhanced Identification Card, or Trusted Traveler Programs - NEXUS, FAST/Expres or SENTRI enrollment card (issued only to preapproved travelers).

Mail or Fax to:

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