
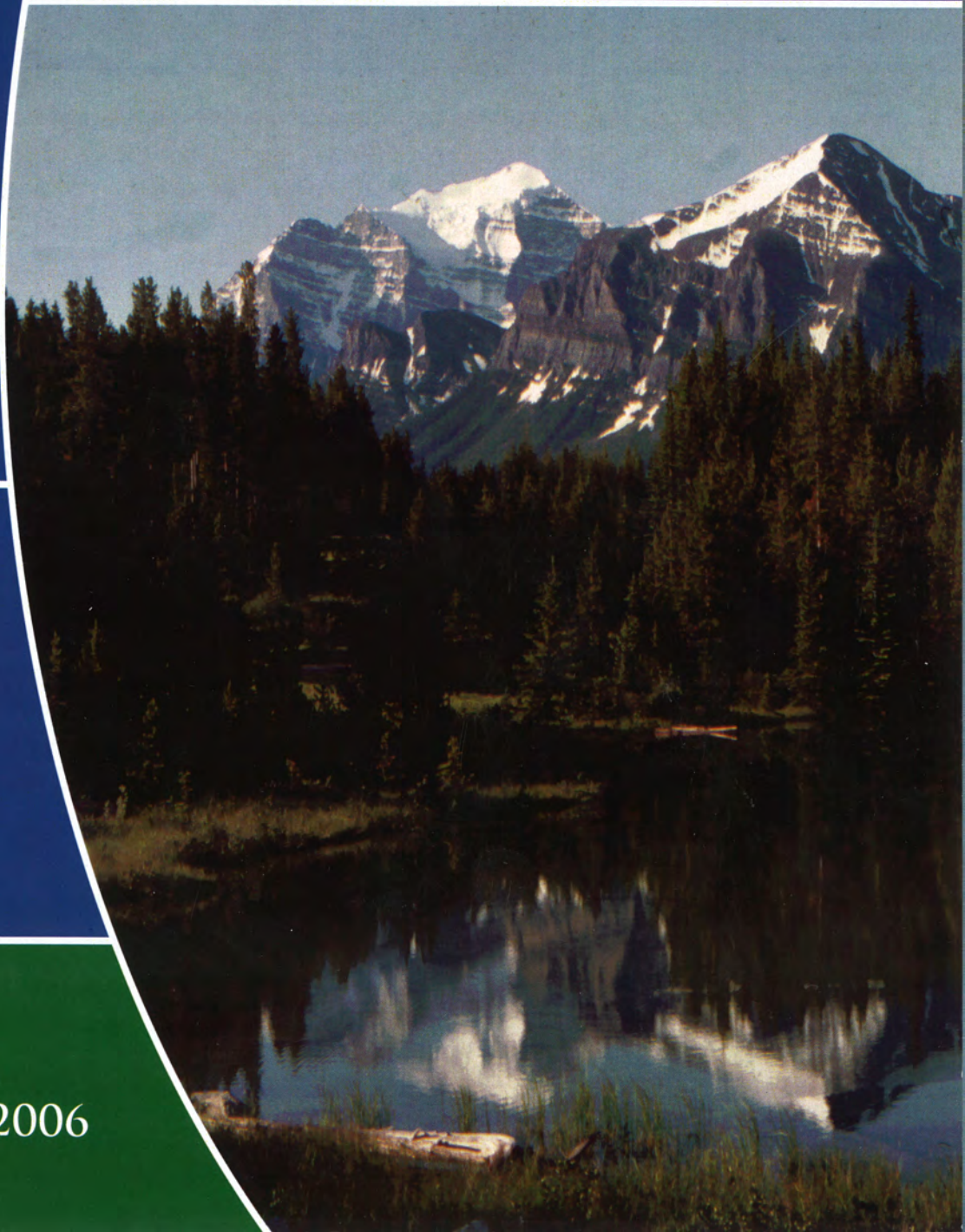
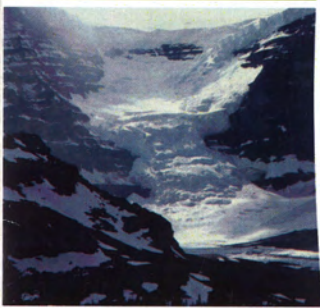


5TH
FIFTH
BIENNIAL



ROSENBERG
INTERNATIONAL FORUM
ON WATER POLICY



BANFF, CANADA
6-11 SEPTEMBER 2006

FIFTH BIENNIAL
ROSENBERG
INTERNATIONAL
FORUM
ON WATER POLICY

Dear Participant,

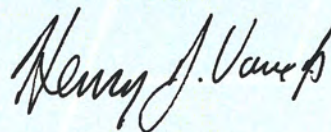
On behalf of the Advisory Committee I welcome you to Canada and the 5th Rosenberg International Forum on Water Policy. This year's Forum includes a pre-Forum field trip to inspect upland watershed management regimes along the spine of the Canadian Rockies. An elective post-Forum trip to the upland watershed of the Columbia River will provide an additional opportunity to see and learn about the management of international rivers. As usual these trips offer an opportunity to interact with Forum participants as well as the opportunity to see first-hand some of the water management challenges and successes in this part of the world.

Two days of formal sessions and informal discussions will focus on upland watershed management in an era of global climate change. There will be three general sessions and four case studies. The case studies include: 1) the Jordan River; 2) the Saskatchewan River; 3) the Rhone River; and 4) the International Joint Commission. I hope you will find the discussions informative and interesting

This year several local co-sponsors join with the primary sponsors, the Bank of America and the University of California, to make this Forum possible. These include: Alberta Environment, Alberta Ingenuity, Alberta Irrigation Projects Association, The Banff Centre, The Calgary Foundation, Columbia Basin Trust, Expo Zaragoza 2008, and Max Bell Foundation. Representatives of these co-sponsors will be with us throughout the Forum. I hope you will make it a point to introduce yourself to these representatives and join with me in thanking them for their support.

I trust that all of you will enjoy the field trips and that you will have a chance to see some of Banff and the beautiful surroundings. I hope that this Fifth edition of the Rosenberg Forum will be personally and professionally rewarding for each of you.

Best wishes,



Henry J. Vaux, Jr., Chair



Craig Richards

**SEPTEMBER 5
(Tuesday)**

Participants arrive at Calgary International Airport 0730

**SEPTEMBER 6
(Wednesday)**

0800 Depart Delta Hotel
Enroute: *A Brief History of Bow River Basin*,
Robert Sandford 0830

1000 Rest Stop: Bow Valley Parkway—Examine prescribed burning, wildlife management and visitor use 1100

1030 Arrive at Sawback Prescribed Burn: *Upland Watershed Management: The Roll of Fire*,
Cliff White, Chief Fire Ecologist,
Banff National Park 1200

1130 View Crowfoot Glacier 1215

1300 Lunch at Mt. Coleman Picnic Area 1315

1400 Depart for Big Hill 1345

1430 Arrive at Big Hill 1430

1530 Arrive at Columbia Icefield Chalet 1530

1600 Columbia Icefield Adventure Tour of Athabasca Glacier:
What Is Glacial Recession Telling Us?
Shawn Marshall,
University of Calgary 1630

1800 Return to Columbia Icefield Chalet 1900

1900 Dinner at Chalet

**SEPTEMBER 7
(Thursday)**

Breakfast
Tour of High Altitude Wastewater Treatment Plant

0915 Depart Icefield Chalet for Banff—continue with lectures and examples of upland watershed management

1100 Peyto Lake Overlook

1200 Arrive Bow Lake

1215 Lunch at Num-Ti-Jah Lodge, Bow Lake

1315 *Water Quality in Jeopardy?*
David Schindler,
University of Alberta
Species Protection, Ecosystem Restoration, Resource Conservation,
Ian Syme, Chief Warden,
Banff National Park

Depart Num-Ti-Jah Lodge

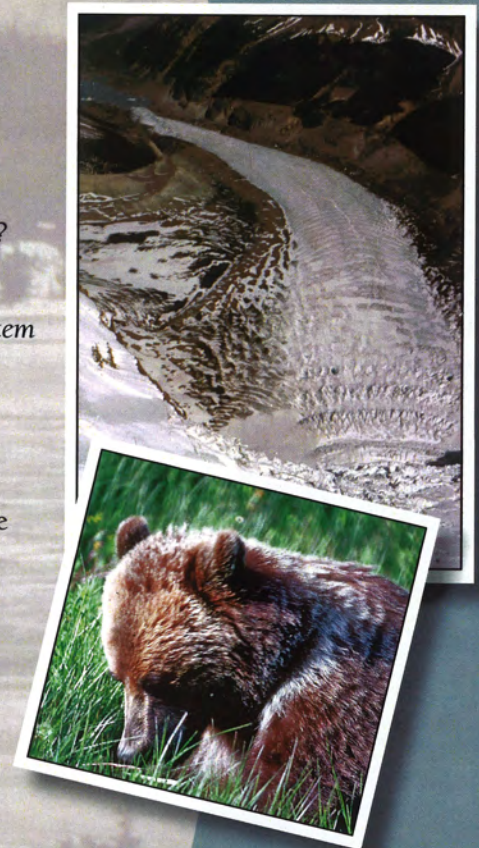
Arrive Lake Louise

Depart Lake Louise

Arrive Banff Centre

Opening Reception Hosted by the
Calgary Foundation
Welcoming: *W. R. (Reg) Gomes*,
Vice Pres., University of California
William Dickson,
Calgary Foundation

ROSENBERG
PRE-FORUM
**FIELD
TRIP**
6-7 SEPTEMBER



**UPLAND WATERSHED
MANAGEMENT
PRACTICES IN THE**

*Rocky Mountains
of Canada*

MANAGING UPLAND WATERSHEDS OF GLOBAL CLIMATE CHANGE

SEPTEMBER 7 (Thursday)

TransCanada Pipeline Pavilion

- 1900 Opening Reception
Hosted by Calgary Foundation
Welcoming: *W. R. (Reg) Gomes*,
Vice Pres., University of
California
Mr. William Dickson,
Calgary Foundation

SEPTEMBER 8 (Friday)

Rolston Recital Hall

Opening Session: Inaugural Speeches

- 0900 Welcoming and Introductions
Dr. Henry Vaux, Jr., Chair,
Rosenberg Forum
Ms. Sarah Iley, Vice President,
Programming, The Banff Centre
Mr. Richard Rosenberg,
Bank of America, Emeritus
The Rt. Hon. Herb Gray,
Chair, Canadian Section,
International Joint Commission
The Hon. Allen Olson,
Commissioner, U.S. Section,
International Joint Commission

- 1000 Break

KEYNOTE SPEAKERS:

(Henry Vaux, Chair)

- 1030 Factors for Success: Public and
Private Sector Roles in Securing
a Safe and Reliable Water Supply
Mr. Don Lowry, President &
CEO, EPCOR, Edmonton, Alberta
- 1100 Mountains of the World—Water
Towers for the 21st Century
Dr. Bruno Messerli,
University of Bern
- 1130 Upland Watershed Management
in the Developing World
Dr. Sihem Benabdallah,
University of Tunis

- 1200 Lunch, Hosted by
Alberta Ingenuity

Session One (Helen Ingram, Chair) CHALLENGES IN UPLAND WATERSHED MANAGEMENT: FOR WHAT? FOR WHOM?

- 1330 *Dr. Holger Hoff*,
University of Potsdam
- 1345 *Dr. Pedro Arrojo*,
University of Zaragoza
- 1400 Discussant:
Dr. Hans Schreier,
University of British Columbia
- 1415 Round Table Discussion
- 1500 Break

Session Two (Yuksel Inan, Chair) UPLAND WATERSHED MANAGEMENT AND GLOBAL CHANGE

- 1530 Upland Watershed Management
and Environmental Impacts
in the Face of Global Climate
Change—
Dr. David Sauchyn,
University of Regina
- 1545 Implications of Climate Change
for Upland Watersheds
Dr. Richard Adams,
Oregon State University
- 1600 Discussant:
Dir. Adele Hurley,
University of Toronto
- 1615 Round Table Discussion
- 1700 Adjourn for the Day
- 1830 Dinner, Hosted by the
Alberta Irrigation Projects Assoc.

WATERSHEDS IN AN ERA OF CLIMATE CHANGE

SEPTEMBER 9 (Saturday)

COPING WITH GLOBAL CHANGE IN UPLAND WATERSHED MANAGEMENT— LEARNING FROM REGIONAL EXPERIENCES

Session Three (Ayman Rabi, Chair)

Case Study One—The Jordan River Basin

- 0830 Dr. Alon Rimmer, Israel
*Oceanographic & Limnological
Research, Ltd.*
- 0845 Adaptation and Policy
*Mr. Youssef Hassan Ayadi,
Jordan Valley Authority*
- 0900 Discussant:
*Dr. Moneef Zou'bi, Islamic World
Academy of Sciences*
- 0920 Round Table Discussion
- 1005 Break

Case Study Two—The Saskatchewan River Basin (Bob Sandford, Chair)

- 1035 Elements and Impacts of
Global Change
*Dr. David Schindler,
University of Alberta*
- Reaction Panel**
- 1050 *The Hon. Guy Boutilier, Minister
of the Environment, Alberta*
- 1105 *The Hon. John Nilson, Minister of
the Environment, Saskatchewan*
- 1120 *The Hon. Steve Ashton, Minister
of Water Stewardship, Manitoba*
- 1135 Round Table Discussion
- 1215 Lunch, Hosted by
Expo Zaragoza 2008

Case Study Three—The Rhone River Basin (Alberto Garrido, Chair)

- 1330 *Dr. Jean-Paul Bravard,
Université Lumière*
- 1345 *Dr. Claudia Pahl-Wostl,
University of Osnabrueck*
- 1400 Discussant:
*Dr. Bruno Messerli,
University of Bern*
- 1420 Round Table Discussion
- 1505 Break

Case Study Four—The International Joint Commission: A Case Study in the Successful Management of International Waters (Henry Vaux, Chair)

- 1530 *The Hon. Jack Blaney,
Commissioner, Canadian Section,
International Joint Commission*
- 1545 *The Hon. Dennis Schornack,
Chair, U.S. Section,
International Joint Commission*
- 1600 Discussant:
*Mr. Philip Weller, International
Commission for the Protection of
the Danube*
- 1620 Round Table Discussion
- 1710 Closing: Lessons and
Conclusions
*Dr. Peter Gleick, President,
Pacific Institute*
- 1730 Round Table Discussion
- 1900 Reception and Gala Dinner,
*Hosted by Environment
Alberta*
Guest Speaker:
*The Hon. Guy Boutilier,
Minister of the Environment,
Alberta*

ROSENBERG
POST-FORUM
**FIELD
TRIP**
10-11 SEPTEMBER

**SEPTEMBER 10
(Sunday)**

0800 Depart Banff Centre
 • Tour Briefing—30 minutes
 • Enter Columbia Valley—
 Briefing by Columbia Basin
 Trust—*Kindy Gosal*

1100 Arrive Columbia River
 Headwaters, Columbia Lake,
 Canal Flats
 • First Nation's Presentation on
 First Nation's Issues

Noon Lunch

1300 Board Bus for Trip to
 Radium, B.C.

1400 Arrive Columbia Wetlands
 Briefing

1430 Canoe Trip through
 Columbia Wetlands

1730 End Canoe Trip

1800 Board Bus Depart Radium

1900 Arrive Golden, B.C.
 Lodging: Prestige Inn,
 Golden, BC

**SEPTEMBER 11
(Monday)**

0730 Breakfast

0830 Board Bus for Trip to
 Kinbasket Reservoir

0930 Arrive Kinbasket Reservoir
 Discussion of:
 • Recreational Issues
 • F & W Issues
 • Archeological Issues
 • Management of Upstream
 Reservoirs Under Existing
 Treaty

1030 Depart Kinbasket Reservoir

1145 Lunch at the Canyon's Edge

1500 Arrive Takakkaw Falls,
 Yoho Valley

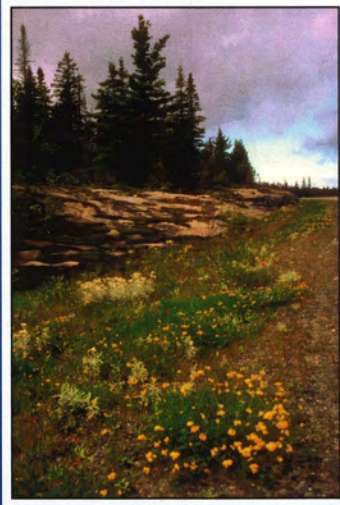
1545 Depart Takakkaw Falls

1615 Canadian Pacific R.R.—
 Spiral Tunnels

1645 Depart Spiral Tunnels

1745 Arrive Banff Centre

Dinner on your own



*Upper Columbia
Basin*

**BRITISH
COLUMBIA**

FIFTH BIENNIAL
ROSENBERG
INTERNATIONAL
FORUM
ATTENDEES

ADVISORY COMMITTEE

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Frederick Cannon	USA	Robert Sandford	Canada
Andrew Chang	USA	Mordechai Shechter	Israel
Ariel Dinar	USA	Sekou Toure	Kenya
Yuksel Inan	Turkey	Henry Vaux, Jr.	USA
Helen Ingram	USA	Kimberly Beard	USA
John Pigram	Australia		

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Elizabeth Bourget	USA	Dale Hjertaas	Canada
Murray Clamen	Canada	Jim Mattison	Canada
William Dickson	Canada	Brent Paterson	Canada
John Donner	Canada	Greg Shyba	Canada
Dennis Fitzpatrick	Canada	Ralph Strother	Canada
Kindy Gosal	Canada	Craig Richards <i>Artist-in-Residence</i>	Canada
Peter Hackett	Canada	Leslie Taylor	Canada

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Oktaay Aksoy	Turkey	Abdel Fattah Metawie	Egypt
Saul Alvarez-Borrego	Mexico	Sayed-Farhad Mousavi	Iran
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David Hill	Canada	Consuelo Varela	Spain
Domingo Jimenez	Spain	Peter Watson	Canada
William Jury	USA	Wang Xi	People's Republic of China
Jay Lund	USA		
Jennifer McKay	Australia		

SPEAKERS

Richard Adams	USA	Don Lowry	Canada
Pedro Arrojo	Spain	Bruno Messerli	Switzerland
Hon. Steve Ashton	Canada	Hon. John Nilson	Canada
Youssef Hassan Ayadi	Jordan	Com. Allen Olson	USA
Sihem Benabdallah	Tunisia	Claudia Pahl-Wostl	Germany
Com. Jack Blaney	Canada	Alon Rimmer	Israel
Hon. Guy Boutillier	Canada	Richard Rosenberg	USA
Jean-Paul Bravard	France	David Sauchyn	Canada
Peter Gleick	USA	David Schindler	Canada
Com. Herb Gray	Canada	Com. Dennis Schornack	USA
Holger Hoff	Sweden	Hans Schreier	Canada
Adele Hurley	Canada	Philip Weller	Austria
Sarah Iley	Canada	Moneef Zou'bi	Jordan



Max Bell Foundation



Alberta Irrigation
PROJECTS ASSOCIATION

