



EIGHTH BIENNIAL
ROSENBERG
INTERNATIONAL FORUM
ON WATER POLICY

AQABA
JORDAN
23-25 MARCH, 2013





Dear Participants:

On behalf of the Advisory Committee I welcome you to Aqaba, Jordan for the 8th Rosenberg International Forum on Water Policy. This year's Forum includes sponsors from the Aqaba Special Economic Zone Authority (ASEZA), U.S. National Academy of Sciences, the Islamic World Academy of Sciences, Alberta Innovates, CRDF Global and the University of Regina. The Rosenberg Forum is co-sponsored by the University of California and the Bank of America. We deeply appreciate the support of the sponsors. We extend a special welcome to former Jordan Prime Minister, H.E. Abdel Salem Majali, who also serves as a member of the InterAction Council, a collaborative partner of the Forum and H.E. Adnan Badran, former Jordan Prime Minister and Petra University President. Both honorary guests will join us at the Forum. I also wish to extend a special thanks to Dr. Moneef Zou'bi, Director General of the Islamic World Academy of Sciences, for his generous support in planning the Forum in Jordan.

The theme of this Forum is "Managing Water in the 21st Century: Challenges & Opportunities." We will have sessions on regional water management, the fate of agriculture in an era of intensifying water scarcity and innovations in linking science and policy. The formal sessions will be preceded by a day-long field trip down the Great Rift Valley. Participants will become acquainted with the hydrologic problems occasioned by the shrinking of the Dead Sea and the proposed Red Sea/Dead Sea Canal. I hope all of you will take the opportunity to become acquainted with one another during the field trip.

I look forward to welcoming each of you to the 8th Rosenberg International Forum in person. I trust that you will find the sessions professionally and personally rewarding and that you will enjoy the beauties and people of Jordan.

Best wishes,

Henry J. Vaux, Jr.
Chair

Pre-Forum Field Trip

23 MARCH (Saturday)

Hosted by The Royal Scientific Society (RSS)

0900 The Great Rift Valley, Jordan

Presentation by Rana Nabil Arda, The Royal Scientific Society (RSS)

Dead Sea Panoramic Complex

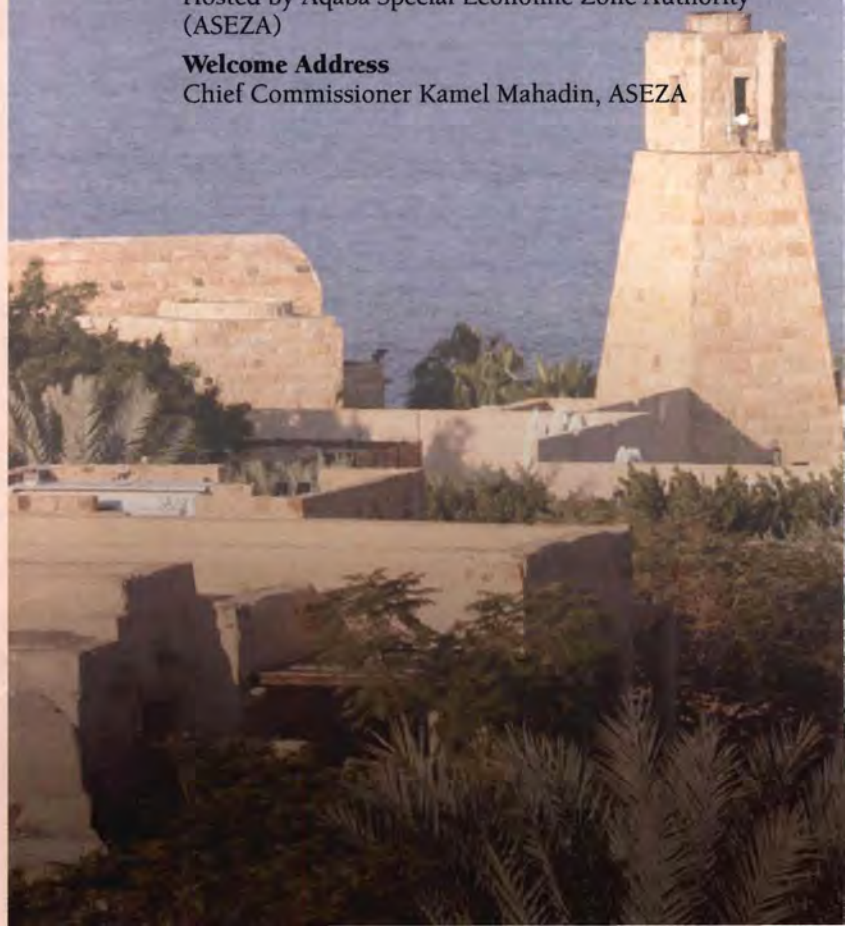
The permanent exhibition of the Dead Sea Museum is located within the Dead Sea Panoramic Complex, and includes its geological, ecological, archeological, and historical origins, as well as the future conservation of the Dead Sea. The Dead Sea Museum introduces visitors to the physical and chemical characteristics, while highlighting the relationship between the Dead Sea and human beings in an attempt to promote the conservation and protection of the area. The full story of the Dead Sea is relayed with the use of panels, videos, and models to help clarify the conservation needs of the Dead Sea. Two documentary films, "Ecology of the Dead Sea" and "Dead Sea in Danger" are also on display in the museum. The education program encourages visitors to participate in several experiments which involve comparing Dead Sea water to fresh water and normal sea water.


1730 Opening Reception

Hosted by Aqaba Special Economic Zone Authority (ASEZA)

Welcome Address

Chief Commissioner Kamel Mahadin, ASEZA





Managing Water in the 21st Century: Challenges & Opportunities

24 MARCH (Sunday)

0900 Opening Ceremony

Session I

Forum Themes

(Chair: Henry Vaux)

Welcome Addresses

Henry Vaux, Chair, Rosenberg
International Forum on Water Policy

Daniel Dooley, Senior Vice President,
University of California

Moneef Zou'bi, Director General, Islamic
Academy of Sciences

Kamel Mahadin, Chief Commissioner,
Aqaba Special Economic Zone Authority
(ASEZA)

Opening Address and Welcome from the Hashemite Kingdom of Jordan

H.E. Professor Abdel Salam Majali,
Former Prime Minister

1000 Morning Break

1020 Keynote Address:

*Bridging Science and Policy in
Water at Regional and Global
Scales*

H.E. Professor Adnan Badran,
Former Prime Minister and
President, Petra University,
Jordan

1050 Roundtable Discussion

1120 Keynote Address

*The Importance of Management in
a Changing Global Waterscape*
H.E. Margret Catley-Carlson,
Diplomat, United Nations

1150 Roundtable Discussion

1220 Session I Summary

1230 Lunch

Session II

Regional Planning and Management

(Chair: Ayman Rabi)

1400 *The Benefits of Regionalism:
Comparative Examples*
Andrea Gerlak, University of
Arizona, United States

1420 *The Strengths and Weaknesses
of Regional Planning and
Management*
Itay Fishhendler, Hebrew
University of Jerusalem,
Israel

1440 Discussant: Ellen Hanak,
California Public Policy
Institute, United States

1455 Discussant: Philip Weller,
Commission to Protect the
Danube River, Austria

1510 Roundtable Discussion

1530 Afternoon Break

1550 Roundtable Discussion,
continued

1645 Session II Summary

1700 Adjourn

1745 Reception

25 March (Monday)

Session III

Aridity: The Fate of Agriculture

(Chair: Alberto Garrido)

0900 *The Outlook for Food Security in
the Middle East*
Mahmoud Solh, ICARDA,
presented by Nasri Haddad,
ICARDA

0920 *Methods of Adaptation*
Theib Oweis, ICARDA

0940 *Consequences for Rural
Communities*
Lovell "Tu" Jarvis, University of
California, Davis, United States

1000 Discussant: Kurt Schwabe,
University of California,
Riverside, United States

1015 Discussant: Redouane Choukr-
Allah, Institut Agronomique et
Vétérinaire Hassan II, Morocco

1030 Roundtable Discussion

1100 Morning Break

1115 Roundtable Discussion,
continued

1215 Session III Summary

1230 Lunch

Session IV

Bridging Science and Policy

(Chair: Daniel Dooley)

1400 Panel Discussion

Michael Clegg, Foreign
Secretary, National Academy of
Sciences, United States

Moneef Zou'bi, Director
General, Islamic World
Academy of Sciences, Jordan

Ken Matthews, Australian
Academy of Technological
Sciences & Engineering,
Australia

Sally Fairfax, Professor,
University of California,
Berkeley, United States

1500 Roundtable Discussion

1530 Afternoon Break

1550 Roundtable Discussion,
continued

1650 Session IV Summary

1700 Closing Remarks:
H.E. Professor Abdel Salam
Majali, Former Prime Minister,
Jordan

1730 Adjourn

1900 Gala Dinner

Participants

Ambassador Aksoy, Ambassador (retired), Turkish Foreign Policy Institute, Turkey

Rana Arda, Water Engineer, Royal Scientific Society, Jordan

Ram Aviram, Ambassador (retired), BIT Consultancy, Israel

Guillermo Donoso, Professor, Universidad Catolica de Chile, Chile

Antonio Embid, Professor, University of Zaragoza, Spain

Dennis Fitzpatrick, Vice-President of Research, University of Regina, Canada

Joan Girona, Director, IRTA, Spain

Cheikh Gaye, Professor, Academy of Sciences and Technology, Senegal

Marwan Haddad, Director, Water and Environmental Studies Institute, An-Najah University, Palestine

Muhanned Adnan Hararah, Environment Commissioner, Aqaba Special Economic Zone Authority (ASEZA), Jordan

Piet Heynes, Retired Head, Dept of Water Affairs, Namibia

Ramon Llamas, Member, Spanish Academy of Sciences, Spain

Kamel Mahadin, Chief Commissioner, Aqaba Special Economic Zone Authority (ASEZA), Jordan

Rodrigo Maia, Professor, FEUP - Faculty of Engineering of the University of Porto, Portugal

Cindi Mentz, Director-External Relations, Middle East/North Africa, CRDF Global, United States

Sayed-Farhed Mousavi, Professor, Semnan University, Iran

Doug Parker, Director, California Institute for Water Resources, University of California, United States

Silvia Rafaelli, Water Resources Expert, La Plata Basin, Argentina

Muhammad Saidem, Executive Director, Royal Scientific Society, Jordan

Maria Saleth, Professor, Madras Institute of Development, India

Soroosh Sorooshian, Professor and Director, University of California, Irvine, United States

Khaled Touqan, Director, Jordan & MENA Office, CRDF Global, Jordan

Fernando Urquidi-Barrau, Professor and Member, Bolivian Academy of Sciences, Bolivia

Katherine Vammen, Deputy Director, University of Nicaragua, Nicaragua

Peter van Niekerk, Water Resources Expert, Department of Water Affairs, South Africa

John Zhou, Executive Director, Environmental Management and Water Resources, Alberta Innovation, Canada

Chunmiao Zheng, Director, Beijing Water Research Institute, China

Nasri Haddad, Regional Coordinator, ICARDA, Jordan

Ellen Hanak, Co-Director of Research, Public Policy Institute of California, United States

Lovell "Tu" Jarvis, Professor, Dept. of Agricultural and Resource Economics, University of California, Davis, United States

Abdel Salam Majali, Former Prime Minister; Member, InterAction Council, Jordan

Ken Matthews, Retired Chair and CEO, National Water Commission, Australia

Theib Oweis, Director of Research Program, ICARDA, Egypt

Kurt Schwabe, Professor, University of California, Riverside, United States

Phillip Weller, Executive Secretary, International Commission for the Protection of the Danube River, Austria

Moneef Z'oubi, Director General, Islamic World Academy of Sciences, Jordan

Speakers and Discussants

Adnan Badran, Former Prime Minister; President, Petra University, Jordan

Margaret Catley-Carlson, Diplomat, United Nations Secretary General, Canada

Radouane Choukr-Allah, Professor and Director, Institut Agronomique et Vétérinaire Hassan II, Morocco

Sally Fairfax, Professor, College of Natural Resources, University of California, Berkeley, United States

Itay Fishhendler, Professor, Hebrew University, Israel

Andrea Gerlak, Director, International Studies Association, University of Arizona, United States

Advisory Committee

Dan Dooley, Senior Vice President, University of California, United States

Alberta Garrido, Professor and Director, Technical University of Madrid, Spain

Helen Ingram, Professor Emeritus, University of California, Irvine, United States

Lowell Lewis, Professor Emeritus, University of California, Spain

Ayman Rabi, Executive Director, Palestinian Hydrology Group, Palestine

Robert Sandford, Chairman; Member, Canadian Partnership Initiative; United Nations Water for Life Decade, Canada

Henry Vaux, Chairman; Professor and Assoc. Vice President, Rosenberg International Forum; University of California, United States

WE WOULD LIKE TO THANK THE SUPPORTERS OF THE 8TH BIENNIAL ROSENBERG FORUM

Bank of America



Forum Coordinator: Kimberly Lane-Beaird

Local Coordinators: Moneef Z'oubi, IAS

Peter Marji, ASEZA