

W A T E R R E S O U R C E S

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INTERNATIONAL WATER RESOURCES CONCERNS

AWRA

Community, Conversation, Connections

AMERICAN WATER RESOURCES ASSOCIATION



AWRA
Community, Conversation, Connections

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- OE Oceanography
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- PB Public Health
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- ES Educational Institution (Student)
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- SI State/Interstate Gov't Agency
- IN Industry
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- AWRA Website Other: _____

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- Conference Discount Technical Committees
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- BA Bachelor of Arts
- BS Bachelor of Science
- MA Master of Arts
- MS Master of Science
- JD Juris Doctor
- PhD Doctorate
- OT Other: _____

AWRA

c/o Middleburg Bank | P.O. Box 2217 | Leesburg, VA | 20177-7580

Phone: 540.687.8390 | Fax: 540.687-8395 | info@awra.org

www.AWRA.org

INTERNATIONAL WATER RESOURCES CONCERNS

RICHARD A. ENGBERG

Guest Associate Editor - dick@awra.org

In recent years, AWRA has significantly increased its international water resources presence through increasing membership of water resources professionals from other nations, by participation in international meetings and organizations, and through publication of papers by international authors in the *Journal of the American Water Resources Association*. This is the first issue of *Water Resources IMPACT* dedicated completely to international water resources concerns and restoration plans for several countries including Korea, Moldova, Brazil, and Jordan. Also included is a snapshot of the ecological disaster that is the most secretive nation on Earth, North Korea. Several of the articles were recruited by the guest Associate Editor while attending the World Water Forum in Marseille, France, in March 2012. Learn and enjoy!

OVERVIEW

3 **AWRA: An International Water Organization?** ... *Richard A. Engberg*

FEATURE ARTICLES

4 **Integrated Solution for National-Scale Flood Mitigation Strategy: Four Major River Restoration Projects in Korea ...** *Myung-pil Shim, Hyoscop Woo, Kun Yeun Han, and Boosik Kang*

Korea's strong economic growth has been accomplished by widespread damage to its major rivers including pollution, sediment, and a decline in ecological diversity. The Four Rivers Project aims to restore natural river functions that have been disrupted or disturbed by natural or industrial activities. This article focuses on the flood mitigation component of the project.

8 **Bic River Basin Initiative: Republic of Moldova** ... *Ina Coseru*

Surface water problems in Moldova relate to the fall of the Soviet Union. Local authorities in the new republic of Moldova had neither the finances nor expertise to deal with water resources infrastructure. River basin councils in the Cubota and Bic River basins are developing and implementing management plans to restore the basins.

11 **Flood Risk Management: An International Strategy to Face the Impacts of Water Related Risks and Crises ...** *Camila Pozzer*

The most effective methodology for dealing with flooding is disaster risk management. Brazil has recently implemented a national plan for Risk Management and Disaster Response involving structural responses to past flooding, and preparedness and prevention monitoring, forecasting, and mapping of vulnerable areas.

14 **Water Resources of Jordan ...** *Saja Khaldoun Khashman*

Jordan faces severe water challenges not only because of its arid climate, but also because much of its surface water originates in other countries. The Dead Sea, a unique economic attraction to investors and tourists, is sinking rapidly. A proposed plan to transfer Red Sea water to the Dead Sea would assist its revitalization.

17 **What Would It Take to Restore the Most Secretive Nation on Earth? ...** *Keith Bowers*

Western visitors to North Korea in March 2012 observed an almost apocalyptic landscape with river channels that were devoid of riparian vegetation and choked with sediment. This represents not only an ecological crisis but also a food security crisis, an environmental justice crisis, and a biodiversity crisis.

WATER RESOURCES

IMPACT

VOLUME 15 • NUMBER 1 • JANUARY 2013

Other features in this issue ...

▲ **AWRA BUSINESS**

- 10 **Highlights of December 2012 JAWRA Papers**
- 16 **AWRA FUTURE MEETINGS ... 2013**
Mark Your Calendars
- 22 **President's Message**
- 24-25 **Recipients of AWRA's Annual Awards for 2012**
- 26 **Announcement of Herbert Scholarship Opportunities for 2013-2014 ...**
Due Date of April 22, 2013
- 27 **Spring Specialty Meeting ... St. Louis, MO**
Program-at-a-Glance
- 28 **AWRA 2013 Board of Directors**
- 28 **Send Us Your Feedback for This Issue**
- 28 **Advertising Opportunities in IMPACT**
- 29 **Call for Papers ... "Water for Mega Cities: Challenges and Solutions ... Sept. 16-18, 2013 ... Beijing, China"**
- 30 **Scheduled Topics for Future Issues of IMPACT**

▲ **OPINION COLUMNS**

- 19 **The New Economy of Water ... Is Big Oil Ready for Water? ...**
Matt Payne and Jackson Reed
- 20 **What's Up With Water ...**
Ys, Bunges, and
- 21 **Barriers ...**
Eric J. Fitch
- 21 **Could We Do Better ... The Never-Ending World of Risk...**
Laurel E. Phoenix

(Opinions expressed by our columnists are their own and do not represent the opinion or position of AWRA.)

- ▲ **WATER RESOURCES PUZZLER** 23
- Answers** 28

▲ **ADVERTISER**

- GoldSim Technology Group, LLC**22



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AMERICAN WATER RESOURCES ASSOCIATION
 4 West Federal Street • P.O. Box 1626
 Middleburg, VA 20118-1626
 (540) 687-8390 / Fax: (540) 687-8395
 E-Mail: info@awra.org • Homepage: www.awra.org

EDITOR-IN-CHIEF

N. EARL SPANGENBERG
 College of Natural Resources
 University of Wisconsin-Stevens Point
 Stevens Point, WI 54481
 (715) 346-2372 • Fax: (715) 346-3624
 E-Mail: espangen@uwsp.edu
 (Support for Dr. Spangenberg is provided by the
 College of Natural Resources
 University of Wisconsin-Stevens Point)

TO PLACE AN AD IN THIS PUBLICATION CONTACT

CHARLENE E. YOUNG
 Phone/Fax: (256) 650-0701
 E-Mail: charlene@awra.org

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ASSOCIATE EDITORS

JOE BERG
 (jberg@biohabitats.com)
 Biohabitats, Inc. ~ Baltimore, Maryland

ERIC J. FITCH
 (fitch@marietta.edu)
 Marietta College ~ Marietta, Ohio

MICHELLE HENRIE
 (michelle@mhenrie.com)
 MHenrie | Land Water Law ~ Santa Fe, New Mexico

JONATHAN E. JONES
 (jonjones@wrightwater.com)
 Wright Water Engineers ~ Denver, Colorado

CLAY J. LANDRY
 (landry@waterexchange.com)
 WestWater Research ~ Boise, Idaho

RICHARD H. MCCUEN
 (rhmcuen@eng.umd.edu)
 University of Maryland ~ College Park, Maryland

LAUREL E. PHOENIX
 (phoenixl@uwgb.edu)
 University of Wisconsin ~ Green Bay, Wisconsin

E. TIM SMITH
 (etsmithsiri@aol.com)
 Sustainable Water Resources Roundtable

TECHNICAL DIRECTOR

RICHARD A. ENGBERG
 (dick@awra.org)
 American Water Resources Association
 Middleburg, Virginia

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