Raising Water Resource Awareness and Engaging Next Generation Water Leaders –
A Collaborative Approach

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Agenda

• Introduction
• Panel Presentations
• Panel Discussion
• Summary
• Audience Q&As
• Thank you
Welcome

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Raising Water Resource Awareness and Engaging Next Generation Water Leaders
November 16, 2010 2:15 - 3:45 PM EDT

Moderator
Dr. Patty Hagen
Executive Director,
The Audubon Center at Riverlands

Panel Member:
Kimberly Rea
Director of Interpretive Services, Rivers Project, US Army Corps of Engineers

Panel Member:
Marcia Lochmann
Director, Office of Sustainability, Lewis & Clark Community College

Panel Member:
Rebecca Steiner
Environmental Educator, National Great Rivers Research and Education Center
“It has been said there are two ways to achieve change — through crisis or through leadership. Freshwater is too important to our ecosystems, communities and national security to wait for a crisis. “

Charting New Waters: A Call to Action to Address U.S. Freshwater Challenges
The Johnson Foundation, 2010
Water Resources—A Growing Concern

- Community health
- Economic health
- Ecosystem health
In the past, CEOs have consistently identified change as their most pressing challenge.

Today, CEOs report that the complexity of operating in an increasingly volatile and uncertain world is their primary challenge.

A surprising number of CEOs report that they feel ill-equipped to succeed in this drastically different world.

2010 IBM Global CEO Study
Water Leadership— A Holistic Approach

- **Water management** — handling water resources and providing associated services such as water supply and wastewater treatment

- **Water governance** — an enabling and oversight function that includes water institutions, organizations and individuals with authority for decision-making

*Griggs, 2010*
Today’s Themes

• The significance of “place” and context in program development

• The need to focus on system-based, interdisciplinary, multi-method approaches in leadership development programming

• The importance of partnerships and relationship-building for quality programming and support

• The importance of a “feedback loop” for continual program improvement

• The importance of making a compelling connection with participants
The Significance of Place

Kimberly Rea, CPRP
Recreation, Education & Outreach Manager
Rivers Project Office, West Alton, Missouri
Regional Area

• St. Louis Metro area - 2.8M residents in 16 counties-- 18th largest in the U.S.

• 500,000+ K-12 students

• More than 100 school districts in 2 states

Active Learning
Audubon Center at Riverlands/USACE Rivers Project Office

National Great Rivers Museum

National Great Rivers Research and Education Center
Common Organizational Mission Threads

- Environmental Education
- Conservation
- Partnership
- Science, Research and Adaptive Management
- Ongoing Program Evaluation
Setting the Stage - Program Development

• Identification of educational objectives

• Understanding differences in learning styles

• Leveraging and understanding the effects of technology and social media

• Assessing participant experience and education—baseline information

• Understanding the resources/lack of resources of participants

• Establishing a “feedback loop” for continual program improvement
National Feedback: America’s Great Outdoors Listening Sessions

Led by: Departments of the Interior, Agriculture, the Environmental Protection Agency and the Council on Environmental Quality

Designed to: Promote and support innovative community-level efforts to conserve outdoor spaces and to reconnect Americans to the outdoors
Goals

• Reconnect Americans, especially children, to the Great Outdoors

• Determine how the Federal Government can best advance priorities through public-private partnerships and locally-supported conservation strategies

• Use science-based management practices to restore and protect our lands and waters for future generations
Youth Listening Session—Feedback

• More activities in the outdoors
• Compelling programs for students with a variety of interests, such as biking, canoeing, stargazing, etc.
• Opportunities/incentives for volunteering
• More conservation education on topics such as recycling, and green transportation
Moderator
Dr. Patty Hagen
Executive Director, The Audubon Center at Riverlands
Successful Partner Relationships

- Credit: win/win/win
- Transactional models
- Organizational culture
- Communication
  - Clarity
  - Memorialize common objectives
  - Program records
  - Pictures!
- Celebration
Leveraging Resources

- Funding
- Equipment
- Site
- Expertise
- Time
- Inter-jurisdictional assets
The RiverVision Leadership Project

- Objectives include:
  - Raising environmental awareness of our great rivers
  - Developing an understanding of complicated river policy issues
  - Developing leadership skills

- Participants: middle and high school students

- Partners include the Corps, NGRREC, Metro Sewer District, American Water, and Missouri Botanical Garden
Systems-Based Leadership Development

Marcia Lochmann
Director of Sustainability
Lewis and Clark Community College
“The problems that exist in the world today cannot be solved by the level of thinking that created them.” Albert Einstein
Systems Thinking

The five disciplines of the learning organization:

1. Personal Mastery
2. Mental Models
3. Building Shared Vision
4. Team Learning
5. Systems Thinking

*Peter Senge, The Fifth Discipline*
Remember our first biology lesson: Web of Life
**Summary**

Life on the Mississippi surveys interdisciplinary aspects of human culture on the Mississippi River including: geography, ecology, history, archeology, socio-economics, literature, music, and sustainability. The course may be developed as both a credit offering, and a continuing education course.

**Instructors:**
- Dr. Richard Sparks, NGRREC Research Director
- Dr. Lyle Guyon, NGRREC Terrestrial Ecologist
- Dr. John Chick, Great Rivers Field Station Director
- Dr. Wayne Politsch, L&C Anthropology Professor
- Jen Fuhler Bevel, L&C English Instructor
- Paula Kelso, L&C Sociology Instructor
- Peter Hussey, L&C Music Instructor

**We Want Your Input!**
Do you have suggestions for this course? Please share your ideas with us! We are soliciting suggestions for field trip locations, student materials, and course content. We welcome your feedback!

St. Louis native T.S. Eliot, author of The Waste Land, said his poetry was influenced from "having passed one's childhood beside the big river."

Every summer in the Gulf of Mexico an area becomes void of life due to severely depleted levels of oxygen in the Gulf's water, a state known as hypoxia.

The Riverbend area played an important role in the Underground Railroad.
Systems Thinking Approach

Terrestrial

Aquatic

Human Communities

Education
Water Resource Leadership Skills
Service Learning
Making a Compelling Connection

Rebecca Steiner
Environmental Educator
National Great Rivers Research and Education Center
Water is not only the basis of life on earth, but it winds through humanity like a mighty river.
“How the young respond to nature and how they raise their own children will shape the configuration of our cities, homes—our daily lives.” Richard Louv, 2005
Water Leadership—Building the Foundation

- Deconstruct water resource education into small “drops” of information

- Connect individuals to their local water resources, such as the river

- Connect individuals to their watershed systems to their communities’ water resource issues
RiverWatch Discovery
Valuing Water

- Individual
- Societal/National
- Global Concerns
Leadership Development Continuum

- Stewardship is developed through personal connection, knowledge, and experience

- Leadership evolves from stewardship, respect for others, and a sense of responsibility for the greater good

*Water links us to our neighbor in a way more profound and complex than any other.* - John Thorson
Eventually, all things merge into one, and a river runs through it. The river was cut by the world's great flood and runs over rocks from the basement of time. On some of the rocks are timeless raindrops...I am haunted by waters.

Norman Maclean - A River Runs Through It -
Panel Discussion

- Delivering to diverse stakeholder groups
- Addressing the complexity of water resource management through partnerships
- Using success stories as a guide
Summary

- The significance of “place” and context in program development
- The need to focus on system-based, interdisciplinary, multi-method approaches in leadership development programming
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- The importance of a “feedback loop” for continual program improvement
- The importance of making a compelling connection with participants
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Corporate Sustainability - Wal-Mart and Waste Management's Green Programs
November 30th 2:15 to 3:45 PM EDT - Registration Open!

Moderator: Tim Fields, Former EPA Assistant Administrator for Solid Waste and Emergency Response and Senior Vice President of MDB, Inc.
Learn from the responsible senior corporate officials why Wal-Mart and Waste Management instituted company-wide sustainability programs. The firms are not just being good citizens, but being good businessmen as well. What are they doing, how are they doing it and what have been the environmental and economic results?

LEED Orientation Lite: Managing the Costs and Risks of Green Buildings
December 1, 2010; 2:15-3:45pm EDT - Registration Open!

What is LEED Silver? Why do I want LEED silver? What happens if I don't get LEED silver? Many owners, and even design professionals and contractors, undertake green building projects without a complete understanding of what it means to seek LEED certification. More importantly, parties often don't manage the costs, value and risks inherent in the certification process.

In this hour-long presentation, Robert Kobet, LEED Faculty, and Christopher W. Cheatham, LEED AP, will discuss the basics of LEED certification and explain how to categorize and manage the costs, value and risks that arise on a project seeking certification. As the green building industry becomes more focused on the bottom line, parties will have to truly understand LEED certification and how to manage the costs and risks involved in the process or suffer the consequences.
Contacts

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**National Association of Government Contractors (NAGC)** the nation's largest, most respected trade association representing companies and individuals in the government procurement process. NAGC is an organization of business owners engaged or interested in contracts with government, universities and private corporations. They are dedicated to expanding contracting opportunities for small businesses and those new to the procurement process. They offer training, services and networking opportunities to get your business involved in procurement with government at all levels. **Log on and use code SSF20, that will give you 20% off membership or any publication purchase on their web site.**

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Resources

School Stats - http://www.stlrcga.org/x439.xml
St. Louis Metropolitan Population - http://www.stlrcga.org/x1832.xml

Charting New Waters:
A Call to Action to Address U.S. Freshwater Challenges
The Johnson Foundation, 2010: http://www.johnsonfdn.org/chartingnewwaters

2010 IBM Global CEO Study:


Photo Credit for several images in slides 32 – 39 credited to Chicago botanical gardens