It is increasingly clear: There is no place in an interlinked world for isolated solutions aimed at just one sector. If the world is going to reduce hunger and eradicate poverty, achieving security for water, energy and food is critical. This challenge is becoming even more critical with the impacts of climate change, and water will be the medium by which we will address much of the nexus.

Cover photo: Lake Sixty Nine in Huara, Peru by Christian Ariza.
Thank you for joining us for the Nexus 2014: Water, Food, Climate and Energy Conference at the University of North Carolina at Chapel Hill.

We believe that this is an important period in global policymaking with the development of the replacement for the Millennium Development Goals in 2015. These new development goals must reflect the new challenges that we face. As Albert Einstein said:

“We can’t solve problems by using the same kind of thinking we used when we created them.”

This need for innovation is at the root of this conference. We need new integrated thinking to address an interconnected world.

The challenges over the next twenty years are huge. The combination of an extra billion people added to the world’s population over the next 15 years, increased urbanization, rising from 50% to over 60% by 2030, and the projected economic development patterns of the emerging economies – particularly China and India will place enormous strains on water, food, and energy systems worldwide.

For the 2011 Bonn Nexus Conference, the Stockholm Environment Institute estimated that we will need an extra 40% energy, a possible 30-50% extra food and a shortfall of water availability of up to 40% by 2030. All these shortages and crises will be made worse and more unpredictable by climate change.

These challenges demand a far more integrated approach than we have seen in the last twenty years in addressing water, food, and energy issues, and their ensuing complications prompted by climate change. We must extend our integrated approach beyond research and beyond solutions to the funding aspect and ensure those who are funding projects also take an integrated approach where possible.

This conference will contribute a Declaration on the Nexus to the UN which we hope will become part of the new development goals developed on water, food and energy. The draft Declaration has already been presented on a panel in the thematic debate on water, sanitation and energy that the President of the United Nations General Assembly held on the 18th and 19th of February. Please do contribute your thoughts, comments and edits on the draft during the plenary and workshops sessions.

We will also be launching a new Academic and Practitioners Network which we hope you will join and help it become a medium through which we can address the challenges and opportunities in front of us.

We want to thank the International Advisory Board for their guidance, the sponsors and institutions which have supported this conference, and you for are attending and adding your voice to the conversation.

Welcome to the Nexus family, a family which we hope will grow over the coming years. This conference will continue to play a significant role in bringing that community together each year and it wouldn’t be possible without your support, attendance, and participation. Warmest regards,
**WEDNESDAY AFTERNOON**

**Wednesday, March 5**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:30pm</td>
<td>Registration Opens</td>
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<tr>
<td>1:30-5:30pm</td>
<td>Side Events - <em>See addendum for detailed schedule</em></td>
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<tr>
<td></td>
<td><strong>PLENARY</strong> - Grumman Auditorium</td>
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<tr>
<td></td>
<td><em>Learning from the Past, Building a New Future: Nexus Scientific Research</em></td>
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<td>Chair: <strong>Jamie Bartram</strong>, Director of the Water Institute at UNC</td>
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<tr>
<td>5:45-7:00pm</td>
<td>Panelists:</td>
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<td>• <strong>Prof Joachim von Braun</strong>, Bonn, ZED</td>
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<td></td>
<td>• <strong>Lidia Brito</strong>, Director of Science Policy and Capacity Building for Natural Sciences, UNESCO and co-director of the Planet Under Pressure Conference and former Mozambique Minister</td>
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<td>• <strong>Johan Kuylenstierna</strong>, Executive Director, Stockholm Environment Institute</td>
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<td></td>
<td>• <strong>Josh Tewksbury</strong>, Director, Luc Hoffmann Institute</td>
</tr>
<tr>
<td>7:00-8:00pm</td>
<td><strong>OPENING RECEPTION</strong>: <em>From Bonn Nexus to Chapel Hill via Rio+20</em></td>
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<td>With remarks from <strong>Albert Butare</strong>, co-chair of the 2011 Bonn Nexus Conference and former Minister of Energy and Water in the Republic of Rwanda and Felix Dodds, Co-Director of the Conference and Associate Fellow of the Tellus Institute</td>
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### THURSDAY MORNING

**Thursday, March 6**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30am</td>
<td>Registration Opens</td>
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<tr>
<td>8:00-8:30am</td>
<td>Continental Breakfast</td>
</tr>
<tr>
<td>8:30am-9:30am</td>
<td><strong>OPENING SESSION and SPEAKER</strong> - Grumman Auditorium</td>
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<tr>
<td></td>
<td>Paula Caballero Gomez, Director of the Directorate for Economic, Social</td>
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<td>and Environmental Affairs, Ministry of Foreign Affairs, Colombia – The SDG</td>
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<td>Dashboard</td>
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<tr>
<td>9:30-10:45am</td>
<td><strong>PLENARY</strong> - Grumman Auditorium</td>
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<tr>
<td></td>
<td><em>Natural Resource Security for People: Water, Food and Energy</em></td>
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<td>Chair: Mohamed Khalil, Counsellor, Mission of Egypt to the UN</td>
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<tr>
<td>10:45-11:00am</td>
<td>Break</td>
</tr>
<tr>
<td>11:00-12:30pm</td>
<td><strong>VERBAL ABSTRACT PRESENTATIONS</strong> - See addendum for detailed schedule</td>
</tr>
<tr>
<td>12:30-1:30pm</td>
<td>Lunch - Trillium Dining Room</td>
</tr>
</tbody>
</table>
### Thursday Afternoon

**12:45-1:30pm**

**Optional Lunch and Learn - Dogwood**

*Empowering Social and Environmental Entrepreneurs for Nexus Solutions*

Chair: **Jean Brittingham**, CEO, Katerva and fmr. US Director for Prince of Wales

Panelists:
- **David Rothschild**, Principal of the Portfolio Team, Skoll Foundation

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**1:30-3:00pm**

**Plenary - Grumman Auditorium**

*Nexus Corporate Stewardship: How Business is Improving Resource Use*

Chair: **Katherine Teh-White**, Managing Director, Futureye

Panelists:
- **Gary Lawrence**, Vice President, AECOM
- **Stuart Orr**, Head of Water Stewardship, WWF International
- **Dan Bena**, Senior Director of Sustainability at PepsiCo
- **Rebecca Marmot**, Partnerships and Foundation Director, Unilever
- **Kim Marotta**, Director of Sustainability, MillerCoors
- **Puvan Selvanathan**, Head of Sustainable Agriculture at the UN Global Compact

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**3:00-3:30pm**

Break

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**3:30-5:00pm**

**Verbal Abstract Presentations - See addendum for detailed schedule**

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**5:00-6:30pm**

Poster Reception

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**6:30-8:00pm**

Conference Dinner - Trillium Dining Room
# FRIDAY MORNING

**Friday, March 7**

<table>
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<th>Time</th>
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<tr>
<td>7:30am</td>
<td>Registration Opens</td>
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<tr>
<td>8:00-8:30am</td>
<td>Continental Breakfast</td>
</tr>
</tbody>
</table>
| 9:00-10:30am| **PLENARY** - Grumman Auditorium  
*Nexus Perspectives: Water, Food and Climate*  
Chair: **Olav Kjørven**, Special Advisor on the Post-2015 Development Agenda, UNDP  
Panelists:  
- **Alexander Müller**, Senior Fellow, Institute for Advanced Sustainability Studies, Potsdam Germany  
- **Julie van der Bliek**, Adviser Program and Business Development, International Water Management Institute  
- **Iain MacGillivray**, Special Advisor to the President, International Fund for Agricultural Development  
- **Astrid Hillers**, Senior Environmental Specialist, Global Environment Facility  
- **Jesse Hirsch**, Staff Writer, Modern Farmer |
| 10:45-11:00am | Break                                                               |
| 11:00-12:30pm| **VERBAL ABSTRACT PRESENTATIONS**  - See addendum for detailed schedule |
| 12:30-1:30pm | Lunch - Trillium Dining Room                                       |
# FRIDAY AFTERNOON

**Friday, March 7**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 1:30-3:00pm| **PLENARY** - Grumman Auditorium  
*Nexus Perspectives: Water, Energy and Climate*  
Chair: **Johan Kuylenstierna**, Exec. Director Stockholm Environment Institute  
Panelists:  
• **Adnan Amin**, Director-General of International Renewable Energy Agency  
• **Jonas Monast**, Director of Climate and Energy Program at the Nicholas Institute, Duke University  
• **Liz Thompson**, UN Assistant Secretary General for Rio+20 and former Barbados Energy Minister  
• **Jens Berggren**, Director, Stockholm International Water Institute  
• **Anna Delgado**, Technical Specialist, Water Unit, World Bank |
| 3:00-3:30pm| Break                                                                |
| 3:30-5:00pm| **SIDE EVENTS** - See addendum for detailed schedule                |
| 5:00-6:30pm| Open Reception                                                       |
| 5:30-6:30pm| **Director’s Reception** - Magnolia Lounge (Invitation-Only)        |
SATURDAY MORNING

Saturday, March 8

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>7:30am</td>
<td>Registration Opens</td>
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<tr>
<td>8:00-8:30am</td>
<td>Continental Breakfast</td>
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<tr>
<td>9:00-10:30am</td>
<td>PLENARY - Redbud</td>
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<tr>
<td></td>
<td><em>Urban Challenges of the Nexus: Local and Global Perspectives</em></td>
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<td>Chair: Jorge Laguna-Celis, Senior Sustainable Development Advisor to the President of the UN General Assembly</td>
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<tr>
<td>9:00-10:30am</td>
<td>Panelists:</td>
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<td>• Maruxa Cardama, Executive Project Coordinator Communitas, Coalition for Sustainable Cities and Regions in the new UN Development Agenda</td>
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<td></td>
<td>• Michael Schmitz, Executive Director, ICLEI-Local Governments for Sustainability USA</td>
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<td></td>
<td>• Nicholas You, Chairman, UN-Habitat World Urban Campaign Steering Committee</td>
</tr>
<tr>
<td>10:30-11:00am</td>
<td>Break</td>
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<tr>
<td>11:00am-12:30pm</td>
<td>VERBAL ABSTRACT PRESENTATIONS - <em>See addendum for detailed schedule</em></td>
</tr>
<tr>
<td>12:30-1:30pm</td>
<td>Lunch</td>
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</tbody>
</table>
PLENARY - Redbud
Financing the Nexus: Policy and Practice

Chair: Farrukh Iqbal Khan Counsellor, Pakistan Mission to the UN

Panelists:
- Adeline Diab, Head of Responsible Investment Integration, AVIVA Global Investors
- Geoffrey Lipman, former Assistant Secretary General of the UN World Tourism Organization
- Richard Alex Roehrl, Policy Analyst, UNDESA
- Andre Laperriere, Deputy Chief Executive Officer, Global Environment Facility

3:30-3:45pm Break

PLENARY - Redbud
Closing Session: Presentation of the Declaration

3:45-4:15pm
- Albert Butare, Co-Chair of the Bonn2011 Nexus Conference and former Rwanda Energy Minister
- Jamie Bartram, Co-Director of the Conference and Director of the Water Institute at UNC
SPEAKER BIOS

FELIX DODDS
ASSOCIATE FELLOW AT THE TELLUS INSTITUTE AND NEXUS CONFERENCE CO-DIRECTOR

Felix is an Associate Fellow of the Tellus Institute and was for twenty years Executive Director of Stakeholder Forum for a Sustainable Future. Felix is also co-director of the Nexus Conference with Jamie Bartram.

In 2011 he chaired the UN Conference ‘Sustainable Societies Responsive Citizens’ and was a member of the International Advisory Board for the Bonn Water, Energy and Food Security Nexus Conference – Solutions for the Green Economy (2011).

He is author or editor of nine books the latest for From Rio+20 to a New Development Agenda: Building a Bridge to a Sustainable Future (2014) co-written with Elizabeth Thompson and Jorge Laguna-Celis.

JOACHIM VON BRAUN
BONN, ZED

Joachim von Braun is Director of the Center for Development Research (ZEF), Bonn University, and Professor for economic and technological change. He was Director General of the International Food Policy Research Institute (IFPRI) based in Washington, DC, U.S.A. from 2002 to 2009. von Braun's main research interests are in economic development and policy, resource economics, food and nutrition security; trade, science and technology policy. He serves as chair of the Bioeconomy Council of the Federal German Government; is Vice-President of the NGO "Welthungerhilfe", member of German Academies, Fellow of the American Association for the Advancement of Sciences, and member of the Pontifical Academy of Sciences of the Vatican. He was President of the International Association of Agricultural Economists (IAAE). His awards include the Justus von Liebig Prize for World Nutrition 2011, the Bertebos Prize by the Royal Swedish Academy of Agriculture and Forestry 2009.

LIDIA BRITO
DIRECTOR OF SCIENCE POLICY AND CAPACITY BUILDING FOR NATURAL SCIENCES, UNESCO AND CO-DIRECTOR OF THE PLANET UNDER PRESSURE CONFERENCE AND FORMER MOZAMBIQUE MINISTER

Lidia Brito is Director, Division of Science Policy and Sustainable Development, UNESCO and holds an undergraduate degree in Forest Engineering by Eduardo Mondlane University (Mozambique) and M.Sc. and Ph.D. degrees in Forest Sciences from Colorado State University (USA). As the first Minister of Higher Education, Science and Technology of Mozambique (2000 – 2005) and Deputy Vice-Chancellor of Eduardo Mondlane University (1998-2000) she accumulated extensive experience in the fields of Higher Education, Science and Technology, ICT and innovation policies and programs. In the last year and half Lidia Brito has served as the Advisor of the Mayor of Maputo for Strategic Planning and External Relations.
JAMIE BARTRAM

DON & JENNIFER HOLZWORTH DISTINGUISHED PROFESSOR, DIRECTOR OF THE WATER INSTITUTE AT UNC AND NEXUS CONFERENCE CO-DIRECTOR

Dr. Jamie Bartram is the Don and Jennifer Holzworth Distinguished Professor at the University of North Carolina at Chapel Hill where he has worked since 2009 and is Director of the Water Institute. Dr. Bartram is also co-director of the Nexus Conference with Felix Dodds. He was awarded the International Water Association’s ‘Grand Award’ in 2004 and holds Honorary Professorships at the universities of Aberystwyth, Bristol and Surrey, UK. Dr. Bartram has over 25 years experience in international policy, research and advisory work in public health and disease prevention, especially in relation to environment, health, water supply & sanitation in more than 30 developing and developed countries worldwide. He spent 10 years as Coordinator of Water, Sanitation, Hygiene and Health at the World Health Organization headquarters where he led reform of its international monitoring and standard-setting activities, the development of a series of influential communities of practice and served as first chair of UN-Water.

JOHAN KUYLENSTIERNÅ

EXECUTIVE DIRECTOR STOCKHOLM ENVIRONMENT INSTITUTE

SEI is an international research organization focusing on environment/development research for sustainable development with about 150 staff spread over 9 offices in 6 countries. Johan has previously held positions with the UN system (UNDESA at the UN HQ in NY, WMO in Geneva and FAO in Rome) and has also worked many years at the Stockholm International Water Institute. He has also a background as a consultant focusing on sustainability issues and corporate core value processes within both the private and public sector. His academic background is Earth Sciences and his research focused on palaeoclimatology in the polar regions. He currently holds an adjunct professorship in international water resources at the Stockholm University.

JOSH TEWKSBURY

DIRECTOR LUC HOFFMANN INSTITUTE

Joshua Tewksbury was named director of the Luc Hoffmann Institute in 2012, a project of the WWF committed to focusing scientific capacity on the largest conservation problems facing our world. Prior to his time at the Luc Hoffmann Institute, he served as co-founder and Board member of Natural History Network and was the Walker Professor of Natural History at the University of Washington. Mr. Tewksbury earned his PhD in Ecology and Evolutionary Biology at the University of Montana in 2000.
PAULA CABALLERO GOMEZ
DIRECTOR OF THE DIRECTORATE FOR ECONOMIC, SOCIAL AND ENVIRONMENTAL AFFAIRS, MINISTRY OF FOREIGN AFFAIRS, COLOMBIA – THE SDG DASHBOARD

Paula leads a multidisciplinary team that covers major multilateral negotiations and agreements in sustainable development. She is the main proponent of the Sustainable Development Goals initiative proposed by the Colombian government as a post-2015 framework. Beyond working with government, Paula’s career has included years of work with the UN Development Programme — where she managed diverse projects on biodiversity, land degradation and territorial approaches to climate change — as well as a wide range of posts within academia and the nongovernment sector.

MOHAMED KHALIL
COUNSELLOR, MISSION OF EGYPT TO THE UN

Mohamed Khalil is currently a counsellor for the Permanent Mission of Egypt to the United Nations. He has worked for the Egyptian Ministry of Foreign Affairs since 1997.

Mr. Khalil has a Masters of Arts in European Studies, International Affairs, and European Economic and Monetary Union from the University of Malta, a Master’s degree in International Relations and Affairs from University of Paris Sud and a Master’s degree in International Relations and Affairs from Institut International d’Administration Publique.

ANDERS BERNTELL
EXECUTIVE DIRECTOR 2030 WATER RESOURCES GROUP / IFC

Mr Anders Berntell was named Executive Director of the 2030 Water Resources Group, a consortium of public and private sector and civil society entities that is helping countries to address the challenge of water security in 2011. In 2002, he joined SIWI as Executive Director where he was responsible for overall development and direction of SIWI’s activities. This includes administration of the globally reputed World Water Week, SIWI’s Knowledge Services and SIWI water prize activities. Mr Berntell, a biologist by training, has worked within the field of water, environment and development for 30 years. Prior to joining SIWI, he was Director of Water at the Swedish Ministry of the Environment for seven years and held overall responsibility for all national and international water issues. Internationally, Mr Berntell worked with overall policy issues within the water area and cooperated with environment ministries and water departments in different countries, with donors and development banks, the European Union and with organizations both inside and outside the United Nations system.
Dr. Ania Grobicki has spent most of her working life on water-related issues. She has held positions in the private sector as well as with NGOs and the UN. She was a Coordinator for the African National Congress’s Science and Technology Group, a Coordinator for the CGIAR’s Challenge Program for Water and Food, and Head of Secretariat for a multi-stakeholder forum on strengthening research for health, development and equity. Dr. Grobicki has a PhD in Biotechnology from Imperial College, London. She became GWP Executive Secretary in March 2009.

Sylvia Lee has 15 years of experience in the water sector. She leads the water work at the Skoll Global Threats Fund. Prior, she worked as a Water Resources Specialist at the World Bank based in Kathmandu, Nepal where she focused on transboundary water issues and climate change adaptation & resilience building for vulnerable communities. Sylvia also led the Water Initiative at the World Economic Forum based in Geneva, Switzerland, serving most recently as Associate Director, Environmental Initiatives. Sylvia was also a consulting engineer on the design and construction of water and sanitation projects in the United States and the United Kingdom. Sylvia is a graduate of Massachusetts Institute of Technology and McGill University.

Greg joined The Coca-Cola Company in 1996. He has over 25 years of experience in the environmental and engineering fields. His educational background includes a Bachelor of Science in Mathematics from Columbus College, a Bachelor of Civil Engineering from the Georgia Institute of Technology, and a M.S. in Civil Engineering from the Georgia Institute of Technology. Currently, Greg leads the company’s global water stewardship strategy by focusing on: water use efficiency and wastewater management, watershed protection, community water initiatives and global awareness and action. In 2007 he formed a partnership with WWF, the world’s largest multinational conservation organization, and he manages the multi-year, $50 million partnership while leading the river basin conservation work across 12 countries and 7 major river systems. In 2005, Greg also formed the partnership with the US Agency for International Development which now spans three continents and near $40 million in funding.
JEAN BRITTINGHAM
CEO, KATERVA AND FORMER US DIRECTOR FOR THE PRINCE OF WALES

With over 20 years of experience in sustainability and implement of major programs across the globe, Jean leads the operational and implementation efforts for Katerva. Jean has served on the Consumer Agenda Council of the World Economic Forum, as a strategic advisor and faculty member for the University of Cambridge Programme for Sustainability Leadership and as their US Director as well as the Director for the programs for the Prince of Wales in the US. Jean has lead several innovation and entrepreneurial start-ups and was the head of technology for major programs at CH2M Hill. She sits on numerous business and nonprofit boards. Her career in sustainable business has spanned over twenty years, ranging from the design of strategic collaborations to the implementation of programs across multiple sectors and businesses to promote and empower a sustainable future.

ANERI PATEL
SENIOR ASSOCIATE, ENERGY ACCESS AT THE UNITED NATIONS FOUNDATION

Aneri Patel is Senior Associate, Energy Access at The United Nations Foundation. Aneri helps manage the Energy Access Practitioner Network, a 1500+ member network of off-grid energy professionals around the globe and leads the Network’s Africa work. She has extensive on-the-ground experience in Bangladesh, India, and Uganda providing clean energy solutions for the low-income market, including working with carbon finance for cookstove projects. A serial social entrepreneur, she started a business in south India that supplies essential technologies for remote villagers and is the founder of ENVenture, a non-profit that mentors young entrepreneurs in developing countries to launch similar supply chains. She is a frequent public speaker and notably gave a well-received TEDx talk in DC. She has a Masters in Environment and Development from the London School of Economics and Political Science and a BA in International Studies from the University of North Carolina at Chapel Hill.

DAVID ROTHSCHILD
PRINCIPAL OF THE PORTFOLIO TEAM, SKOLL FOUNDATION

As a Principal of the Portfolio Team, David Rothschild manages a variety of key relationships with funded social entrepreneurs, domain experts, policy makers, corporate partners and co-founders. David develops and structures funding opportunities to drive large scale change in the focus areas of the foundation. Prior to working at Skoll, David worked for the Goldman Environmental Foundation where he was responsible for the Latin America and Africa program areas of the Goldman Environmental Prize. In 2004 David lived and worked in Venezuela preparing the indigenous component of the Caroni River Watershed Management Plan for the Inter-American Development Bank. He moved to Venezuela directly from the Bolivian Amazon where in 2003 he worked for the Field Museum of Chicago, managing community-based mapping and building consensus in remote communities, resulting in the creation of a community controlled protected area in the state of Pando. From 1997 to 2003 David led the Amazon Alliance, a strategic partnership between Amazonian environmental and indigenous organizations.
KATHERINE TEH-WHITE
MANAGING DIRECTOR, FUTUREYE

Katherine Teh-White has facilitated projects that have resulted in communities, companies and governments signing-off on joint vision and together implementing a transformation that achieved sustainable development outcomes as it was defined by them. In 2002 she founded Futureye which provides market research, public policy, public affairs, risk communication, foresight and strategy and change management. Futureye operates in Australia, Asia and Europe and is currently expanding in the Americas. In the past three years she has also founded WikiCurve that provides a two-way engagement platform on the progress of societal expectations. Katherine currently sits on the Advisory Board, Masters of Politics and Policy at Deakin University and is a board member of the Castan Centre for Human Rights at Monash University. She has been a director on a series of boards including: Chairman of an Academic Advisory Board for International Studies, environmental purchasing, independent private school, leadership school centre and women’s enterprise-development.

GARY LAWRENCE
VICE PRESIDENT AECOM

Gary Lawrence is Vice President and Chief Sustainability Officer for AECOM Technology Corporation (NYSE: ACM), an $8-billion global provider of professional technical and management support services. AECOM’s 45,000 employees — including architects, engineers, designers, planners, scientists and management professionals — serve clients in more than 130 countries around the world. In this role, Mr. Lawrence leads AECOM's sustainability efforts by managing AECOM's extensive resources and skills in sustainability for projects across the enterprise. He is also an AECOM spokesperson and thought leader on sustainability issues. During his 30-year-plus career in public and private policy and management, his leadership skills have contributed to various global initiatives engaging in research and practice to mitigate climate change and adaptation strategies.

STUART ORR
HEAD OF WATER STEWARDSHIP
WWF INTERNATIONAL

Stuart Orr is Head of Water Stewardship at WWF International. He leads on strategy and partnership development and implements collective action with business in priority river basins. He has published mainly on water accounting, the water and energy nexus, water stewardship, public policy and water-related risk. Most recently, Stuart led the development of an on-line Water Risk Tool for companies and financial investors, co-drafted guidelines for the UN on Business engagement in water policy and co-wrote a book on business water strategy. Stuart holds an MSc from the University of East Anglia and worked for many years in academia and the private sector – mainly in Asia. He is a member of the World Economic Forum’s council for Water Security, a water adviser for the Carbon Disclosure Project and sits on a number of corporate sustainability advisory panels. He is also on the steering board of the 2030Water Resources Group (IFC) and the Water Futures Partnership (GIZ).
DAN BENA

SENIOR DIRECTOR OF SUSTAINABILITY AT PEPSICO

Dan Bena currently heads the Sustainable Development and Operations Alignment agenda for PepsiCo Global Operations, the world’s second largest food and beverage company, which serves consumers in more countries and territories than the United Nations has members. He serves on the Public Health Committee of the Safe Water Network, dedicated to market-based, sustainable community-level solutions to provide safe drinking water in developing economies; the Leadership Group of the World Business Council for Sustainable Development (WBCSD); and Steering Board of the International Finance Corporation’s 2030 Water Resources Group Initiative. He formerly served on the Steering Committee of the United Nations CEO Mandate, and the Board of the International Society of Beverage Technologists. Most recently, Bena was elected to the Boards of the Washington-based US Water Alliance, and the Creative Visions Foundation, a non-profit dedicated to developing youth as agents of positive social change, and the Advisory Board of Artistic Circles, which produced the 2012 documentary, Water Pressures.

REBECCA MARMOT

PARTNERSHIPS AND FOUNDATION DIRECTOR, UNILEVER

Rebecca is Global External Affairs Director at Unilever and heads Unilever’s Global partnerships team, a role which involved establishing and now running the inaugural Unilever Foundation seeking to maximise the positive social impact of Unilever. Through building global partnerships, Rebecca has created programmes that focus on five core areas; access to drinking water, hygiene, sanitation, basic nutrition and self-esteem.

Rebecca also sits on Unilever’s global water leadership team, overseeing the role of Pureit – a key contributor to Unilever’s goal of providing clean drinking water to 500 million people by 2020.

PUVAN SELVANATHAN

HEAD OF SUSTAINABLE AGRICULTURE AT THE UN GLOBAL COMPACT

Puvan Selvanathan is Head of Sustainable Agriculture at the UN Global Compact (New York) and an Independent Expert member of the UN Working Group on Business and Human Rights (Geneva). He currently advises the Asian Peace-Building & Rule of Law Programme at Singapore Management University, and the Earth Security Initiative (UK) on global resource risks; and is on the Board of Solidaridad North America, a global NGO focused on fair markets and small-farmer equity. An Architect by profession, Puvan holds an MBA and DBA in Corporate Sustainability. He has designed townships, innovated ICT for Development PPPs in Local Governments, and wrote Mozambique’s E-Government Strategy. He led the Malaysian chapter of WBCSD and has advised public and private sector on ethics, governance and the green economy. Puvan was formerly Group Chief Sustainability Officer at Sime Darby, a Malaysian conglomerate and the world’s largest producer of sustainable palm oil.
OLAV KJØRVEN

SPECIAL ADVISOR ON THE POST-2015 DEVELOPMENT AGENDA, UNDP

Prior to becoming Special Adviser, Olav was Assistant Secretary-General and Director of the Bureau for Development Policy where he lead UNDP's substantive contribution to accelerating progress towards the Millennium Development Goals and advancing the post-2015 agenda. He co-chaired the UN's system wide efforts to prepare for a post-2015 development framework, including initiating a global conversation on 'the world we want' to live in through national, regional and global dialogue organized by the UN Development Group, representing all UN development agencies. He was a senior advisor to the Secretary-General on the Sustainable Energy For All initiative and is also leading the UN's engagement with the G20 Development Working Group. Before his appointment as Assistant Secretary-General in 2007, Mr. Kjørven was the head of UNDP's Environment and Energy Group for two years. From 2001 to 2005, Mr. Kjærven was State Secretary for International Development with the Government of Norway.

ALEXANDER MÜLLER

SENIOR FELLOW, INSTITUTE FOR ADVANCED SUSTAINABILITY STUDIES, POTSDAM GERMANY

Since July 2013, Alexander has been a Senior Fellow in the Institute for Advanced Sustainability Studies in Potsdam/Germany working in the research cluster Global Contract for Sustainability, under the direction of Prof. Dr Klaus Töpfer. The cluster focuses on the societal and political transformations that must take place if we are to achieve greater sustainability. It pursues three priorities - Sustainability governance, Transformation processes, Cultural diversity and sustainable economic activity. Prior to his time at the Institute, the UN Secretary-General nominated him as a member of the Advisory Group on Energy and Climate Change (AGECC) in June 2009 to advise him on the energy-related dimensions of the climate change negotiations. From 2006 until June 2013 he served as Assistant-Director General of the Food and Agriculture Organization of the United Nations (FAO) and was responsible for the Department for Natural Resources and Environment. During this time, from 2008 to 2011 Alexander was chair of the United Nations System Standing Committee on Nutrition (UNSCN).

ALBERT BUTARE

CO-CHAIR OF THE 2011 BONN NEXUS CONFERENCE AND FORMER MINISTER OF ENERGY AND WATER IN THE REPUBLIC OF RWANDA

Albert is former Minister of Energy and Water in the Republic of Rwanda and is currently Chief Executive Officer of Fatracs Co Limited. Mr. Butare also was the Academic Deputy Vice Chancellor of the Kigali Institute of Science and Technology and represented the Government of Rwanda in international climate change discussions.
KIM MAROTTA
DIRECTOR OF SUSTAINABILITY, MILLERCOORS

Kim joined MillerCoors in 2004 and currently serves as Director of Sustainability. In this role, she is responsible for driving, implementing and managing MillerCoors sustainability strategy and responsibility initiatives. To drive performance in these areas, she works closely with MillerCoors parent organizations: SABMiller plc and Molson Coors Brewing Company. In addition to forging a partnership with The Nature Conservancy to further MillerCoors water conservation efforts she currently serves on the organization’s Board of Directors for the State of Wisconsin. She was also elected in 2013 to serve on the board of directors for The Sustainability Consortium. Kim received her undergraduate degree from Marquette University, Milwaukee, Wis., and her J.D. from the University of Wisconsin Law School, Madison, Wis. Prior to joining MillerCoors, she practiced law for more than 13 years, specializing in criminal defense. She also served as an adjunct professor at Marquette University Law School. Kim currently resides in Mequon, Wisconsin with her four children.

JULIE VAN DER BLIEK
ADVISER PROGRAM AND BUSINESS DEVELOPMENT,
INTERNATIONAL WATER MANAGEMENT INSTITUTE

Julie van der Bliek has more than 25 years' experience in international development cooperation and research for development as a strategy advisor, manager and fundraiser. Before joining IWMI she worked as a consultant at the interface of natural resource management and social development across Asia and Africa. In 2003 she joined the International Water Management Institute (IWMI) initially as a strategy advisor. Subsequently she was the director of the Global Research Division at IWMI and thereafter Director Business Development. She is now based in the Netherlands and IWMI’s representative in Europe.

IAIN MACGILLIVRAY
SPECIAL ADVISOR TO THE PRESIDENT, INTERNATIONAL FUND FOR AGRICULTURAL DEVELOPMENT

Iain MacGillivray is currently Special Advisor to the President of the International Fund for Agricultural Development (IFAD). An agricultural economist and agricultural engineer/agronomist by training, he recently completed a one-year assignment with the UN's High Level Task Force on Global Food Security Coordination Team as Senior Advisor. His career includes farm management in Argentina, farming in the Sudan, integrated rural development in the Americas and marketing and consultative work for private and public sectors. At the Canadian International Development Agency (CIDA), his work included program management and scientific, technical and policy advice. Iain represented Canada on the CGIAR for over ten years in various capacities. He spent two years directing the Entrepreneurial Partnerships Program at ISNAR-- the institutional strengthening center of CGIAR-- based in The Hague, The Netherlands. In June 2010, Iain was awarded the President's Award for Excellence for his work in developing Canada's Food Security Strategy.
ASTRID HILLERS
SENIOR ENVIRONMENTAL SPECIALIST, GLOBAL ENVIRONMENT FACILITY

Astrid has joined the International Waters (IW) team, coming from the World Bank where she has worked since 2000. She has been engaged in cooperation on river basins in Africa, especially the Nile Basin Initiative, most of her time at the Bank. In the last three years, she has been part of the Bank’s Climate Change team and has been involved in developing the Bank’s 'Strategic Framework for Development and Climate Change' as well as working on adaptation to climate change, focusing on coordinating the Pilot Program for Climate Resilience. She joined the Bank coming from UNDP where she also worked on Nile Basin cooperation as well as on Ecological Sanitation approaches. Astrid is a German national and an environmental engineer by training with a MSE/Diploma in Bio-engineering earned in 86 in Hamburg, a MSE in Civil and Environmental Engineering, and a MS in Natural Resources from the University of Michigan.

JESSE HIRSCH
STAFF WRITER, MODERN FARMER

Jesse Hirsch is staff writer at Modern Farmer, a general-interest magazine exploring the stories behind our food. He has written on GMOs, no-till agriculture, the U.S. farm bill, and climate change. Two of his stories (on invasive wild pigs and farming in space) were nominated for James Beard awards this year. Previously he has written for the New York Times, the Wall Street Journal and the San Francisco Chronicle, among others.
ADNAN AMIN
EXECUTIVE SECRETARY OF INTERNATIONAL RENEWABLE ENERGY AGENCY

Adnan Z. Amin was elected as the Director-General of the International Renewable Energy Agency (IRENA) in April 2011. Mr. Amin served as Head of the UN System Chief Executives Board for Coordination (CEB) Secretariat. In this function, he was responsible for overseeing the Secretariat supporting the CEB in its UN system-wide policy coordination under the Chairmanship of the UN Secretary-General and comprising the Executive Heads of UN System organizations. The CEB is the highest level interagency coordinator framework in the UN system and oversees UN coordination on Policy, Management and Field Operations. Mr. Amin also served as the Executive Director of the Secretariat of the Secretary-General’s High Level Panel, co-chaired by the Prime Ministers of Mozambique, Norway and Pakistan, on UN System-wide Coherence. The development of coherent field operations, harmonised business practices across the United Nations System, and the establishment of a new organisation, UN Women, are outcomes of the process launched by the panel. Previously, Mr. Amin served as the Director of the New York Office of United Nations Environment Programme (UNEP) and Special Representative of the UNEP Executive Director.

JONAS MONAST
DIRECTOR OF CLIMATE AND ENERGY PROGRAM AT THE NICHOLAS INSTITUTE, DUKE UNIVERSITY


Prior to joining Duke, Jonas worked as an attorney in the Corporate Social Responsibility Practice at Foley Hoag LLP, where he advised clients on emerging legal and reputational risks regarding human rights and the environment. Jonas also served as a congressional fellow for the late Senator Paul Wellstone and as legislative counsel for the Center for Responsible Lending. He earned his law degree from Georgetown University and his B.A. from Appalachian State University.

LIZ THOMPSON
UN ASSISTANT SECRETARY GENERAL FOR RIO+20 AND FORMER BARBADOS ENERGY MINISTER

Ms. H. Elizabeth Thompson, a former Minister for Energy and Environment of Barbados, was appointed by the Secretary-General of the United Nations as Executive Coordinator for the UNCSD Rio + 20 Conference and assumed her duties in 7 December 2010. Ms Thompson also served as Minister for Physical Development and Minister for Health. Ms. Thompson was appointed to the Barbados Senate and was a practising attorney as well as a journalist. In addition, she was a lecturer in ecology, economy, energy and politics. Ms. Thompson graduated from the University of the West Indies and obtained an MBA, with distinction, from the University of Liverpool and a Master of Laws from Robert Gordon University, Scotland.
ANNA DELGADO
CONSULTANT, WORLD BANK
Anna is an industrial engineer interested in the critical nexus between water and energy and in the role of technology and policy to mitigate its environmental and socio-economic impacts, with a focus on developing countries. Currently, she is a consultant for the World Bank, providing technical and strategic support to “Thirsty Energy”, an initiative to ensure energy security in a water constrained world. She is also a team member of eLuma.org, an organization that aims to ensure that rural electrification provides sustainable development for communities in Sierra Leone. Before joining the World Bank she was a research assistant at the MIT Energy Initiative, focusing her research on the water requirements of electricity generation. She has also worked in the Technical Operations Division of AGBAR, a leading company in the water cycle business, where she participated in projects to coordinate and manage global operations, and in EvaluServe India, where she worked as an Analyst in the Business Research Unit. Anna is also passionate about social entrepreneurship and has been engaged with several initiatives to promote decentralized solar solutions for rural areas. She has a master degree on Technology and Policy from the Massachusetts Institute of Technology (MIT) and Industrial Engineering degree from Universitat Politècnica de Catalunya (UPC).

JENS BERGGREN
DIRECTOR, STOCKHOLM INTERNATIONAL WATER INSTITUTE
With a broad background in agronomy, energy, water and climate, Mr. Berggren embodies the WFCE Nexus. In addition to managing two of SIWI’s prizes, he provides strategic advice on the organisations engagement in international processes such as the development of post-2015 goals. Mr Berggren joined SIWI as Director for the World Water Week in Stockholm in July 2010, being responsible for leading the operation and development of SIWI’s annual World Water Week. In 2011 he also assumed overall responsibility for SIWI’s Prizes. Prior to joining SIWI, Mr Berggren served as Special Advisor in the Secretariat for the Commission for Climate Change and Development at the Swedish Ministry for Foreign Affairs, where he focused on Development Policy within the fields of Environment and Climate Change. Mr Berggren has also worked with water issues as a policy specialist, programme manager and advisor at the Swedish International Development Cooperation Agency (Sida) both at headquarters in Sweden and at Swedish embassies abroad.

JORGE LAGUNA-CELIS
SENIOR SUSTAINABLE DEVELOPMENT ADVISOR TO THE PRESIDENT OF THE UN GENERAL ASSEMBLY
Jorge Laguna-Celis is a negotiator, diplomat and writer. Since 2007 he has worked for a more effective, responsive and representative multilateral system. He is currently the Senior Adviser on sustainable development to the President of the United Nations General Assembly. As lead negotiator for his country, Mexico, during the Rio+20 Conference and chair of the historic resolution 67/213 of 2012, he contributed to the reform of international environmental governance and to the establishment of the United Nations Environment Assembly.
MARUXA CARDAMA
EXECUTIVE PROJECT COORDINATOR COMMUNITAS, COALITION FOR SUSTAINABLE CITIES AND REGIONS IN THE NEW UN DEVELOPMENT AGENDA

Maruxa is Executive Coordinator Communitas the Coalition for Sustainable Cities and Regions in the new UN Development Agenda. Maruxa was until the end of 2012 the Secretary General of nrg4SD, a global organisation promoting the sustainable development (SD) of communities. Before, she was Deputy Director at the representation of the South West of England to the European Union (EU) for 6 years, where she led on SD policy analysis & advocacy and international projects for a partnership of regional authorities, academia and the private sector. Earlier she was Sustainable Development and Institutional Affairs Officer in the EU representation of the Spanish region of Galicia and started her career in the EU Committee of the Regions. Besides, Maruxa has worked as Expert on Governance and Public Administration Reform for the Government of Romania and The British Council.

MICHAEL SCHMITZ
EXECUTIVE DIRECTOR INTERNATIONAL COUNCIL FOR LOCAL ENVIRONMENTAL INITIATIVES, NORTH AMERICA

Michael is the Executive Director of ICLEI – Local Governments for Sustainability USA, the leading membership association of cities & counties committed to climate action, clean energy, and sustainability. Before joining ICLEI, Michael was Principal of Go Forward Consulting specializing in strategic research, analysis and policy development. The firm managed and advised non-profit, business, and political clients on a range of issues including environmental regulation, land use, and economic development. In this capacity he served as Executive Director of CLEEN, a statewide coalition of environmental and public health organizations advocating for the protection of California’s clean water and environmental health. Prior to founding the firm in 2003, he was a civil rights attorney and senior legislative counsel for the chair of the Congressional Black Caucus focusing on environmental, trade, and economic development policies.

NICHOLAS YOU
CHAIRMAN UN-HABITAT WORLD URBAN CAMPAIGN STEERING COMMITTEE

Prior to his current positions, Nicholas served as the Senior Policy Advisor to the United Nations Human Settlements Programme. He is the author/editor of numerous publications on sustainable development and is generally acknowledged as having developed the concept of best practices for the public sector. In 2004 he was commissioned by the Universal Forum on Cultures (Barcelona) to design two flagship exhibits on urban best practices and on water. He is the founder of the “Messengers of Truth Project” that uses urban art forms and music to empower disenfranchised urban youth to improve their livelihoods.
Mr. Khan has been a counsellor for the Pakistan Permanent Mission to the United Nations since 2010, focusing on Sustainable Development, Sustainable Development Goals, Policy Analysis, and negotiations. He is also an Alternate Member on the Board of the Green Climate Fund and a member of the Private Sector Advisory Group.

Previously, Mr. Khan has been a member of the Transitional Committee to design Green Climate Fund established under the UNFCCC as well as a chairman of the Adaptation Fund Board under the Kyoto Protocol.

Adeline Diab is Head of Responsible Investment Integration at Aviva Investors, a GBP300bn asset manager. She has a global mandate to lead Responsible Investment strategies across all asset classes and overseas offices and to manage a network of 20 Responsible Investment Officers. Between 2003 and 2013 Adeline joined Aviva Investors and worked for several leading institutions building tailored strategies. She set up a sustainability research and engagement practice globally for HSBC Asset Management in Paris. She was a pioneer in developing a Hedge Fund perspective for sustainability from 2007 that was presented at the UN General Assembly and at the World Economic Forum in Davos. As part of her role at GLG Partners she also managed an environmental fund, a global thematic fund. In 2011 she joined APG Asset Management in Amsterdam, the EUR300bn Dutch pension funds' manager before moving back to London.

Professor Geoffrey Lipman is Director of greenearth.travel, a global think tank network, promoting green growth and travelism (travel & tourism) - specializing in strategy, innovation & funding, a Member of the World Economic Forum’s Global Agenda Council and Environment Advisor of Jeju Province RSK. He is visiting Professor at several Universities and General Manager of GATEtrip an internet based tourism investment business. Lipman was formerly Assistant Secretary General UNWTO, President WTTC and Executive Director IATA. He has served on Boards of public & private sector groups in Europe, M.East & Canada and co-editor of books on Green Growth and Travelism exploring transformation concepts and practices. He has been the driver of several Travel & Tourism sustainability initiatives including Green Globe and the Davos Climate Summit. He is President of ICTP grouping destinations & stakeholders committed to Green Growth & Quality.
RICHARD ALEX ROEHRL
POLICY ANALYST, UNDESA

R. Alexander Roehrl is a scientist, economist and policy analyst. At present, he works as Senior Economic Affairs Officer at the UN Department for Economic and Social Affairs in New York where he is responsible for science and technology issues. In particular, he leads the UN task team for the Global Sustainable Development Report. Over the past two decades, he has participated in many assessments and has supported governments in energy and transport infrastructure policy and planning. Previous affiliations include the Economic and Social Commission for Asia and the Pacific, the International Atomic Energy Agency, the International Institute for Applied Systems Analysis, Eurofound and the European Commission. He received his education from the Universities of Erlangen, Munich, Oxford, and London, and holds advanced degrees in both physics and economics.

ANDRÉ LAPERRIÈRE
DEPUTY CHIEF EXECUTIVE OFFICER, GLOBAL ENVIRONMENT FACILITY

Mr. André Laperrière joined the Global Environment Facility (GEF) as Deputy Chief Executive Officer in Washington D.C., USA. During his career, Mr. Laperrière has led/managed numerous large scale projects on behalf of Private Corporations and subsequently, within the United Nations. He has extensive work experience in the Americas, Caribbean, Africa, Europe and the Middle East, in particular in developing countries and in conflict/post conflict environments.

Before joining the GEF, Mr. Laperrière was Director General of the Global Trust Council (GTC). Prior to GTC, Mr. Laperrière has held various senior management positions in the United Nations Common System, playing a major role in the design and the implementation of major reforms within agencies such as the International Criminal Court (ICC), the World Health Organization (WHO).
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SIDE EVENT DESCRIPTIONS

Wednesday, March 5

**Public Health Adaptation at the State Level**
Convened by Florida, Maryland, and North Carolina Public Health Agencies
Room: Bellflower
Contact: Lauren Thie

This side event will focus on the public health adaptation planning and readiness surveillance work at the state and local levels, with a focus on the CDC’s Climate and Health Program. While an overview of these initiatives is important, the hosts anticipate that the most dynamic part of this roundtable will be a discussion of state and local information gaps, resource requirements for planning, research, and tracking in regards to public health at a sub-national level.

**Water, Food and Drought: Learning and Action Opportunities for Doing More with Less**
Convened by Robert B. Daugherty Water for Food Institute at the University of Nebraska
Room: Dogwood
Contact: Rachael Herpel

During this session Roberto Lenton, Founding Executive Director of the Institute, will share highlights from the 2013 conference, featured in the newly published conference proceedings. This will be followed by a panel discussion that explores how the growing severity of droughts around the world not only creates opportunities to develop innovative solutions, but also generates the political will to adopt them. Opportunities for collaboration will also be explored.
A new five-year project “Human-environmental security in the Asia-Pacific Ring of Fire: water-energy-food nexus” led by the RIHN in Japan was launched in 2013. The objective of this project is to maximize human-environmental security (minimize the risk) by choosing policies and management structures that optimize water-energy-food connections in Asia-Pacific region. This project also contributes to the SDGs. Themes for this project include conflicts and tradeoffs between geothermal power generation and the hot spring business (water-energy nexus), water uses on land vs environmental flow from land to the ocean for coastal ecosystem (water-food nexus), and resource development vs water use and contamination (water-energy nexus), among others. The project integrates interdisciplinary and transdisciplinary research with co-design and co-production (Future Earth, 2013).

Five interdisciplinary approaches will be used: 1) Environmental governance, science in/for society, and co-design/co-production approaches; 2) Biophysical measurements/analyses using geochemical, coastal oceanographic, geophysical, hydrologic, and ecological techniques to evaluate linkages between land and ocean; 3) Biophysical measurements/analyses using satellite, geophysical, geochemical, and hydrogeological techniques to evaluate linkages between water and energy; 4) Social measurements/analyses using community surveys, cost-benefit/efficiency analysis, and environmental valuation from socioeconomic, anthropology, psychology, and behavior-science methodologies; and
5) Development of integrated indicators/indices and network analyses of feedback from stakeholder meeting/workshops. The purpose of the workshop is to create a new approach for a balancing between risk and resilience which is critical for achieving human and environmental security focusing on 1) Politics, Policy and Regulation, 2) Ecosystem Approaches and Resilience and 3) Resource Scarcity and Security.

Land and Soil at the Nexus: The need for targets embedded in the SDGs
Convened by UNCCD and IASS
Room: Bellflower
Contact: Sergio Zelaya

Soil and land degradation poses a great challenge for sustainable development. The world is losing approximately 24 billion tons of fertile top soil every year because of wind or water erosion. The development of Sustainable Development Goals (SDGs) and a Post-2015 framework offers the opportunity to place soils and land on the global development agenda. These resources underpin key ecosystem services such as the provision of renewable energy, food and water which are entrenched in the discussions for the development of the SDGs and are expected to become standalone goals. However, interlinkages between these services pose the challenge of managing tradeoffs as well as considering implications for land use and land use changes. A Nexus framing can help minimize tradeoffs at two levels: first, we need to develop an approach to coherently integrate soil and land resources in the SDGs at the target and indicator level, in addition; we need to complement the implementation of the Nexus at the global level through integrated natural resource management at the landscape level. At the workshop, we will discuss existing concepts and initiatives to reach a joint understanding of soil and land-related aspects that need to be addressed in the SDGs in order to minimize tradeoffs and discuss a potential partnership to develop appropriate targets and indicators as input to the UN
Sustainable Development Goals process. The workshop will apply a multi-stakeholder dialogue format and focus on short presentations with dynamic and open discussions.

**The Role of Ecosystems in Optimizing Water, Energy and Food Infrastructure**

Convened by IUCN, IWA and UNEP

Room: Windflower

Contact: Carla Friedrich and Damian Crilly

Background: The ecosystem services provided by natural infrastructure underpin water, energy and food security. The services provided by forests, wetlands and floodplains support and complement engineered water, energy and food infrastructure. Without healthy ecosystems in well-functioning watersheds, the infrastructure built for irrigation, hydropower or municipal water supply does not function sustainably and is unlikely to achieve the economic returns necessary to justify investments.

Investing in integrated management strategies that combine natural infrastructure with engineered solutions can reduce costs, enhance services and provide a range of multiple benefits across the water, energy and food security ‘Nexus’ for communities and the environment. Ecosystem management and restoration should be an integral part of the planning for infrastructure in the Nexus.

This event aims to demonstrate the essential role of ecosystems in supporting water, energy and food infrastructure development in the Nexus. Presentations and discussion will focus on answering the following questions within three key themes:

**Integrating built and natural infrastructure solutions**

- Will it work?
Wednesday, March 5

- Can it be implemented at the scale needed?

**Overcoming institutional and sectoral silos**
- What policies are needed to support investment in natural infrastructure as an integral part of water infrastructure (e.g., incorporating the value of ecosystem services when making decisions about water infrastructure investments)?
- What tools exist or can be further developed to invest in natural infrastructure at the watershed level (e.g., payments for ecosystem services)?

**Infrastructure optimization**
- What needs to be done to make it happen?
- Are there places where this is happening?

**Powering Agriculture: A Multi-Donor Approach to Supporting Clean Energy for Agricultural Growth**

Convener by the German Agency for International Cooperation Deutsche Gesellschaft Internationale Zusammenarbeit (GIZ) GmbH and the United States Agency for International Development

Room: Redbud

Contact: Maria Weitz

Within the agriculture sectors of developing countries, there are notable opportunities for the integration of clean energy technologies to enhance agricultural production and market value. The purpose of this session is to present a multi-donor approach designed to catalyze public and private resources to address barriers to growth within the clean energy/agriculture nexus. “Powering Agriculture: An Energy Grand Challenge for Development” (www.PoweringAg.org) is a global initiative steered by USAID, the Governments of Sweden and Germany, and Duke Energy. Through this session, participants will be introduced to the Grand Challenge for
Development model which supports a cadre of international innovators who have developed clean energy solutions to power irrigation systems, on-farm mechanization, refrigeration systems, and value-added processing facilities in developing countries. The session will also present a newly-launched online platform, which will serve as virtual repository and knowledge-sharing site for research, studies, and technological advancements focused on the important role clean energy services play in sustainable food production. Lessons learned will be shared on efforts made and challenges faced in developing cost-appropriate technologies, establishing effective business models, securing financing, and rallying public/private/academic interest within the nexus.

A goal of the session is to solicit feedback from the participants on how to enhance the Powering Agriculture online platform so that it can be utilized by a wide-range of academics, development practitioners, training institutions, and public/private sector entities who are interested in the nexus.

**Water, Energy, and Food Nexus Tool: Strengthening the Interface between Science and Policy Communities**

Convened by Texas A&M University and Qatar National Food Security Program

Room: Mountain Laurel

Contact: Rabi H. Mohtar

With global population growing over 7 billion, accompanied by escalating economic crises, mismanagement of natural resources, climatic changes and uncertainties, and growing poverty and hunger, the world is living in a critical period defined by global challenges. These challenges are linked with social, economic, and political risks and unrest that present and future generations face (Mohtar, Daher, 2012).
Our global community is facing unprecedented risks and challenges that are directly linked to the way we currently understand and manage our resources. Providing sustainable solutions to overcome present challenges poses the need to study the existent interlinkages between these resources.

The nature of the intimate relation between water, energy, and food forces a paradigm shift in the management approach; moving from silos to more integrative approaches.

Our group has developed a new scenario-based framework and set of methodologies that: define the interconnections between water, energy and food provides explicit quantifications for interconnections according to defined methodology.

Based on the proposed framework, we developed a tool aimed at identifying sustainable resource management strategies governed by the water-energy-food nexus.

The tool allows the user to CREATE multiple scenarios composed of different variations of food, water, energy, and international trade portfolios. The user is able to VISUALIZE the amount of resources consumed by different proposed scenarios. The user would then DECIDE the relative importance of reducing each of the resource requirements in order to arrive to a scenario that is most favorable for adoption based on incorporated “sustainability index” criteria.

Goal of proposed session is to introduce this integrative framework and tool to conference participants. It will also be a chance to give an overview of our ongoing projects after which we could identify synergies with interested participants.
Climate Change and Adaptation in Sub Saharan Africa: Challenges and Responses
Convened by GRM Futures Group
Room: Sunflower
Contact: Dr. Scott Moreland

Changes in weather such as rainfall patterns, temperature increases and increases in the frequency of extreme weather events present challenges to all countries of the world. It is becoming widely accepted that climate changes engendered by emissions of greenhouse gases are responsible. In Sub Saharan Africa, especially in rural areas, climate change adds yet another layer of challenges facing many of the world’s poorest populations. Panelists will address issues and challenges facing African countries as they seek to adapt to climate change. Topic areas might include, but are not limited to:
- Water availability
- Food security
- Health
- Population growth
- Deforestation
- Energy

Evaluating the nexus: methods/challenges of multidisciplinary approaches
Convened by GRM Futures Group
Room: Sunflower
Contact: Dr. Eckhard Kleinau

Funding agencies of international development programs have shifted their results focus from sector specific measures such as health status to broad development outcomes, especially poverty reduction and women’s empowerment.
Well-tested and established methods exist for evaluating the effectiveness and impact of programs in specific sectors using program specific outcome measures. Measuring the contribution of these programs to broad development results has to take into account that they are impacted by programs in all sectors and calls for multidisciplinary evaluations. However, measuring, incorporating and synthesizing information across multiple disciplines and conducting complex multifactoral analyses and interpreting a large number of results remain significant challenges to multidisciplinary evaluation.

This panel will present and discuss the experiences and challenges of multidisciplinary evaluations involving health, environment, water, and climate change sectors. This will include approaches for establishing clear definitions of data elements, data collection methods, aggregation, and analysis as well as communicating an understanding of data limitations, direct versus proximal measures, degrees of uncertainty, and interpretation of findings to researchers in other fields. Panelists will also address communication challenges between researchers in different disciplines dealing with each other’s often esoteric terminology, which limits the sharing of data across disciplines and may lead to the misuse of data. Participants in this session will gain an understanding of the practical challenges implementing multidisciplinary evaluations and how to overcome them such as competing research interests, responding to information needs from different stakeholders, resource allocations, external environmental factors, technical and ethical limitations of collecting too many data, discordant program implementation timelines and conflicting evaluation demands.
Building the Ecosystem for Water Entrepreneurship to Secure Water for Food
Convened by Securing Water for Food Grand Challenge for Development
Convened by USAID and Sida
Room: Redbud
Contact: Dr. Ku McMahan

Entrepreneurs need a whole network of relationships and resources - from mentors and peers to supply chain partners to investor connections to business accelerator hubs – to succeed in the market.

An entrepreneurial innovation ecosystem is built through a strong network that links and coordinates thinkers and doers from different sectors (academia, public, private and civil society) and industries, bringing new approaches to solve new and old problems, catalyzing dynamic connections that facilitate transactions, and responding flexibly to market opportunities. This interactive discussion will consider ways in which Securing Water for Food can play an active role in fostering this ecosystem for water entrepreneurs that are helping to enable the production of more food with less water and/or make more water available for food production, processing, and distribution in developing and emerging countries.
Landscape Management Approaches to Integrate Water, Food, and Energy: Scaling up through the Landscapes for People, Food, and Nature Initiative

Convened by EcoAgriculture Partners
Room: Mountain Laurel
Contact: Heather O’Neil

This side event will introduce participants to the Landscapes for People, Food and Nature Initiative (LPFN). This global Initiative, led by nine Co-organizers (including civil society, research, intergovernmental and Government entities), advances and supports integrated approaches to landscape management, promoting pathways for sustainable development that simultaneously address the full set of needs from the rural land base, including climate-resilient production of food and fiber, watershed management, biodiversity conservation, bio-energy, terrestrial climate mitigation, and rural livelihoods. To accomplish this, the Initiative is furthering the evidence base for integrated landscape approaches, assisting in the design and implementation of supportive policy frameworks, engaging business leaders, rethinking the finance needs and mechanisms in landscapes, and strengthening specific landscapes where integrated approaches are being applied. The side event will include brief presentations on: the concept of integrated landscape management; results of continental reviews of hundreds of integrated landscape initiatives in Africa and Latin America; highlights from the Initiative's recent studies of business engagement in landscape initiatives and financing mechanisms, and plans to scale up integrated approaches through the LPFN. Participants will be encouraged to share their own experiences with landscape approaches, and ultimately identify how integrated approaches to landscape management can be used to advance the Nexus Strategy of developing interconnected solutions for achieving security for water, climate, and food.
Shining a Light on Solar: Busting Myths and Bright Ideas
Convened by WWF International
Room: Dogwood
Contact: Kevin Taylor

“Rooftop solar photovoltaic systems are rapidly becoming accessible for a majority of American homes and businesses. Innovations in the technology and financing to make solar affordable are here. Yet there are several common myths remnant from the legacy of solar PV that are slowing adoption. If we want to transition to a renewable energy future and avoid the worst impacts of a warming world, we need to bust these myths and create new methods to spread the word about the bright future of solar.

Join World Wildlife Fund for a mythbusting presentation about rooftop solar and become a “Contributing Innovator” in their solar campaign, Renewable. It’s Doable. WWF’s goal is a future where people and nature thrive. That future will be powered by solar and other renewables. They need your help to get there. After the myths are sufficiently busted, WWF will lead an exciting round of brainstorming, following the methods developed by leading innovation firm IDEO. IDEO’s brainstorming techniques are used at NGOs, big business, and startups to quickly generate a large quantity of ideas to solve a specified problem question. WWF’s question: “How can we put a solar panel system on every roof in America?”
THE TIERRA FEE AND DIVIDEND (TFD) PROPOSAL: a workshop to promote a carbon-based international monetary system
Convened by International Institute for Monetary Transformation
Room: Windflower
Contact: Frans Verhagen

To discuss the conceptual, ethical, institutional and strategic dimensions of a carbon-based international monetary system and to enlarge the network for the Triangle TFD and other TFD groups.


Fostering Partnerships for the Management of Global Water Systems
Convened by The US Water Partnership and The Nature Conservancy
Room: Sunflower
Session: Friday afternoon
Contact: Murray Fisher

The concept that water is a complex system is fundamental to a modern understanding of water resources yet in practice this essential resource for health, food and energy is often managed from isolated perspectives. To address the challenge of managing water resources as a complex system, approaches are required that can inform various user-groups on how best to manage the water within their particular sphere of influence. To that end, the U.S. Water Partnership proposes to host a discussion session that addresses Integrated Water Resource Management, from the small-scale household use to municipal utilities to bodies with a mandate to manage
water as a system, from the watershed to the consumer and back.

The proposed format would include:
A. Introduction to the U.S. Water Partnership and an overview of the challenges facing water management globally - U.S. Water Partnership Secretariat
B. Panel Discussion, featuring:
   • Models and Partnerships at the Farm and Community Level – Mr. Robert Meaney, Fellow, Robert B. Daugherty Water for Food Institute
   • Enabling Rural to Urban Water Management through Systems Thinking – Dr. Kala Vairavamoorthy, Dean, The Patel College for Global Sustainability
   • “Green Infrastructure” Watershed Management for Cities
C. Question and Answer Session
D. World Café Networking Session – All panelists host discussion at tables to outline collaboration opportunities with presenter organizations.

A New Architecture for a New Global Partnership: Catalyzing Action on Sustainable Development and Climate
Convened by NRDC
Room: Redbud
Contact: Chelsea Phipps

The world needs enhanced structures and cooperation to meet the opportunities and challenges of a rapidly changing, interconnected world. This event hosted by the Natural Resources Defense Council (NRDC) will examine the institutional architectures necessary to meaningfully engage all stakeholders – including governments at all levels, the private sector, and civil society – in a “new global partnership” for transformative action on the two critical UN processes set to culminate in 2015: a new climate
agreement and a new development agenda. The interactive workshop will explore the way forward in creating results-oriented frameworks around climate and sustainable development that catalyzes actions, commitments, and genuine accountability at all levels.

The event will also highlight the outcomes of NRDC’s recent “Rio+20 to 2015: A New Architecture for a Sustainable New World” Conference held at Yale University on 1-2 November, 2013. This conference examined the emerging multi-level architecture of results-based commitments and partnerships from all stakeholders that contribute to meeting internationally-agreed goals, including the UN Secretary-General’s Sustainable Energy for All and Every Woman Every Child initiatives. Based on discussions and inputs from over 180 officials, academics, practitioners, and students at the conference and months of consultations, NRDC will present its proposal for a new architecture for a new global partnership that will help deliver accountable results on sustainable development and climate challenges.

**Integrative planning tools for Sustainable Development and Poverty Alleviation in a Resource Constrained World**

Convened by The Millennium Institute and The Sustainable World Initiative
Room: Bellflower
Contact: Steve Arquitt

Effective planning for sustainable development and natural resource security is dependent on understanding complex linkages and feedbacks across economic, social, and natural resource sectors. However, humans are known to be severely limited in their ability to intuit the behavior of such systems; models are essential to simulate the implications of decision making in complex systems characterized by interlinkages and feedbacks. The Millennium Institute and Sustainable World Initiative will co-host
this side event to introduce integrative model based tools to address interconnectivity and resource constraints in sustainable development planning with reference to forthcoming Sustainable Development Goals (SDGs). The side event will focus on 2 complimentary approaches: the Threshold-21 integrative simulation model developed by the Millennium Institute and the Resource Sufficiency Evaluation methodology developed by the Sustainable World Initiative.

The purpose is to introduce, explicate, and demonstrate integrating, stakeholder inclusive, model based approaches to national planning for defining and attaining SDGs. With the goals to:

1) Create awareness of integrative tools for defining, evaluating, and attaining SDGs and complementing stakeholder input

2) Build a foundation for future discourse, development and adoption of integrative model-based tools

3) Explore potential partnerships with governments, NGOs, international agencies and businesses for future development and use of these integrative tools
ADDITIONAL CONVENINGS

Thursday, March 6

Academic and Practitioners Network Launch Meeting

11:15 to 12:15pm Room: Sunflower

The Academic and Practitioners network for the Water Energy Food and Climate Nexus aims to establish a global network of disciplinary and interdisciplinary experts, practitioners, and research thought leaders tasked with identifying and filling research gaps and needs, compiling and disseminating current Water Energy Food and Climate (WEFC) knowledge and best practices, and establishing a global clearinghouse of WEFC indicators for the WEFC Nexus framework.

Friday, March 7

Book Launch

12:30 to 1:30pm Room: Atrium at the Taylor and Francis exhibit table

A book launch for From Rio+20 to a New Development Agenda: Building a Bridge to a Sustainable Future, written by conference co-director Felix Dodds, UN Assistant Secretary General for Rio+20 and former Barbados Energy Minister Elizabeth Thompson, and Senior Sustainable Development Advisor to the President of the UN General Assembly Jorge Laguna-Celis. The book provides an insider look at the 2012 conference and how it came about during one of the worst economic crises to date.

The book is a companion to Only One Earth: The Long Road via Rio+20 to Sustainable Development, authored by Felix Dodds, Michael Strauss and Maurice Strong, which tells the story of sustainable development at the global level over the last forty years.

All three authors, Felix Dodds, Elizabeth Thompson and Jorge Laguna-Celis will be present at the book launch.

Dialogue Building for Sustainable Agriculture led by Alexandra Coe of Livable Planet Consulting

12:45 to 1:30pm Room: Dogwood

Plug your mind into new ways of thinking. Take what you know and turn it upside down. New solutions require new thinking. New thinking needs new conversations and new conversations, well they’ve got to be more fun. Explore how to create new ways of thinking about sustainable agriculture. The Nexus embraces this new thinking but how to do it, is yet unknown. This workshop is designed to create new conversations for sustainable agriculture. Bring an open mind and a playful heart. This is the first of a series of interactive participant driven dialogue building sessions.
Saturday, March 8

**Nexus Thinking at the City Region Scale**

11:30am to 12:00pm Room: Sunflower

City regions, or the landscapes that include both rural and urban settlements and natural areas, present a unique spatial framework for planners at all levels of government and other stakeholders to implement the nexus approach. City regions are also emerging as a useful spatial or territorial unit for integrating sustainable urbanization in future international Sustainable Development Goals (SDGs). Integrated planning and management of food, water and energy resources at the city region scale take on special significance in relation to food security and the rural urban continuum.

Short presentations by experts working at the intersection of the city region scale and the nexus approach will be followed by a moderated discussion on possible targets in the SDGs based on innovation and practices in city regions around the world. This special meeting is co-convened by the Prince of Wales's International Sustainability Unit, Communitas Coalition for Sustainable Cities and Regions in the New UN Development Agenda and the Major Groups and Civil Society Food and Agriculture Cluster.

**GATHERING SPACE**

Willow Room will serve as a coffee lounge and meeting room. For quiet work space, please visit the Wintergreen Room.

**ABOUT THE WATER INSTITUTE**

The vision of the Water Institute at UNC is to provide academic leadership for economically, environmentally, socially and technically sustainable management of water, sanitation and hygienic for health and human development. The unprecedented water crisis has created an extraordinary need for academic leadership in research, information, and education at the nexus of water and public health. The Gillings School of Global Public Health at University of North Carolina at Chapel Hill recognized that water is a lynch pin of public health in the 21st century, and that we have both the unique opportunity and the responsibility to take our leadership role in water and health to a new level. The school’s commitment is demonstrated by the creation and support of The Water Institute at UNC, one of the Gillings Gift strategic investments.

http://waterinstitute.unc.edu
THANK YOU, SPONSORS

PLATINUM

Wells Fargo

Wells Fargo is a diversified, community-based financial services company providing banking, insurance, investments, mortgage, and consumer and commercial finance. A leader in reducing its own greenhouse gas emissions and building sustainably, Wells Fargo has provided $21 billion in environmental finance to support the global economy and the environment since 2005. Investments include more than 260 solar projects and 34 wind projects generating enough clean renewable energy to power hundreds of thousands of American homes each year. Wells Fargo is proud to support the Nexus 2014: Water, Food, Climate and Energy Conference at the University of North Carolina, hosted by the Water Institute and all those working to develop America’s clean technology and water infrastructure.

GOLD

GRM International and Future Group

GRM International and Futures Group offer clients and partners access to a top-tier development group with expertise in agriculture and food security; economic growth, trade and livelihoods; education; governance and accountability; and health.

WWF

WWF’s mission is to conserve nature and reduce the most pressing threats to the diversity of life on Earth. The world’s leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally. WWF’s unique way of working combines global reach with a foundation in science, involves action at every level from local to global, and ensures the delivery of innovative solutions that meet the needs of both people and nature.

SILVER

Biovision

The Swiss-based Biovision Foundation combats hunger and poverty, and is committed to the dissemination and application of ecological methods that sustainably improve living conditions in Africa whilst also conserving the environment. Biovision implements projects, mainly in East Africa, and is also engaged in international policy
dialogue at national and international levels, e.g. in the framework of the SDGs and the Committee on World Food Security.

**Millennium Institute**

The Millennium Institute (MI), has 30 years of experience in working closely with governments, international organizations, NGOs and private business to develop and implement policies to foster sustainable development and poverty reduction. Through its integrated simulation models, MI provides stakeholders with tools to formulate sustainable and equitable development policies, monitor progress, and evaluate impact to meet the goals set in multi-stakeholder national and international decision forums. This integrated approach will be critical to achieve the SDGs.

**UNC Institute for the Environment**

UNC Chapel Hill's Institute for the Environment catalyzes and advances interdisciplinary environmental research to solve local to global challenges, educates the next generation of leaders committed to the health and stewardship of our planet, and informs and engages the public to enable environmental problem solving. IE seeks solutions to critical environmental issues to enable sustainable human communities and their coexistence with natural systems.

**WSPA**

WSPA is a global organization seeking to create a world where animal welfare matters and animal cruelty has ended. Our focus is on the nexus between animals and humans as true sustainable development can only be achieved when the needs of both, and the environment they share, are respected.

**BRONZE**

**CLEAR**

The Center for Law, Environment, Adaptation and Resources (CLEAR) at the University of North Carolina School of Law addresses emerging environmental law issues, particularly serving as a leader on laws related to climate change adaptation. The Center helps inform policymakers, leaders, and practitioners about the circumstances brought about by environmental disruption, options for legal change given this disruption, and it provides a forum for educating North Carolina and national legal and business communities about opportunities related to climate change.

**Global Research Institute**

The Global Research Institute—currently focusing on the theme Making Scarce Water Work for All—is a center for scholarly research on key global issues, also serving as a channel through which knowledge can be circulated and applied to real world problems. Research fellowships are granted annually on a competitive basis for scholarship on targeted themes, bringing both talented faculty members at UNC and distinguished visiting scholars together to collaborate on the most pressing global challenges facing North Carolina and the world.

**Luc Hoffman Institute**

The Luc Hoffmann Institute responds to the urgent issues facing global conservation and sustainable development. We link the best science to policy planning and effective field practices to create evidence-based solutions.
Monsanto

Monsanto Company is dedicated to providing farmers the broadest choice of products and services that will help them produce more, conserve more and lead improved lives.

Securing Water for Food & Powering Ag

Securing Water for Food & Powering Ag GCDs source, incubate, and accelerate water, energy, and food technologies and business model innovations to produce more food using less water and less energy.

Water in Our World

An outgrowth of the 2011 Academic Plan, UNC’s two year pan-campus theme, “Water In Our World,” calls for the University and all of its members and resources to mobilize around a common issue facing our society, which in this case is water.

MEDIA SPONSOR

CSR Wire

CSRwire is a digital media platform and the leading global source of CSR and sustainability news, views and reports. We are our members’ most trusted CSR adviser, working with them and their agencies on a wide range of communication services and solutions, specializing in targeted content and social media.

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