

Water Collaboration at the International Level



January 22, 2018

Sustainable Water Resources Roundtable



UF/Florida Earth Merger: A New Type of Organization

- Multi-disciplinary in engineering, planning, science, business, policy, natural resources, agriculture, law, architecture
- Merger of Academics and Professional with focus on resilience
- Focus on Social Impact principles
 - Funding
 - Specific projects of SI partners
 - Engagement of Investors
- Connection to the private sector in everything we do
- Advisory Council of Corporate Partners



2018 Programs and Initiatives

- USNC Pro – September 4-8, Delft, The Netherlands
- SWRR and the Gulf – October 25-26, New Orleans
- The Water and Resilience Module – November 7 & 8, Gainesville
- SWRR in DC – January 22, Hyatt Regency Crystal Spring
- USNC Academic Program – May 14-June 4, Delft
- USNC Pro – May 28-June 1
- USUK Pro – March 26-29, London, England
- SWRR at Cal Water – April TBA, California TBA
- USNC knock-off in Jakarta - December



IHE Delft Florida Program

- IHE Delft: Type II United Nations Institute
- Largest water university in the world: 16,000 graduates
- MSc and PhD candidates from developing countries
- 2000 – 5000 applicants. 200+ chosen by testing
- 95% must go back to country of origin for five years to repay fellowship
- Three heads of state, over 100 at cabinet level
- Florida program begun in 2005



US-Netherlands Connection's Professional Program (USNC Pro)

- Monday through Friday, September 4-8
- Delft as home base and various other places in The Netherlands
 - Use of famous Dutch venues as backdrop to inspire imagination and innovation
- Number of Delegates -21
- Task Force Goal – Development of a Global Knowledge Exchange Platform in Water Resources
 - Focus on water, sustainability and resilience
 - Bridge the gap between “knowledge producers” and “knowledge users”
 - Provide a clearinghouse function to match producers and users, i.e., research institutions and business/government



USNC Pro

- Partners

- Dutch Partners – Dutch Embassy in DC and Consulate in Miami, Deltares, Province Zeeland, City and Port of Rotterdam, Rijkswaterstaat
- Global Partners – European Investment Bank (EIB), Rand Corporation, CH2M, Arup
- US Partners – National Labs, Battelle Institute, US Army Corps of Engineers, NASA, Scripps Oceanographic Institute
- Academic Partners – UF, U of Illinois-Urbana, Florida Gulf Coast U, Wageningen, TU Delft, IHE Delft, Stanford



USNC Pro Discipline Chairs



Science

Hank Loescher
Director, International Affairs
Battelle Labs & NEON



Engineering

Adam Hosking
Global Water Director
CH2M/Jacobs



Business

Antonella Calvia-Goetz
Director of Research Investment
European Investment Bank



Policy

Ben Preston
Dir., Infrastructure & Environ.
Rand Corporation



USNC Pro Agenda

Day, Date	Location	Topic
Monday, Sept 4	IHE Delft and Deltares	Orientation, case studies, definitions
Tuesday, Sept 5	Deltares	Defining Platform parameters and goals
Wednesday, Sept 6	Province Zeeland	Knowledge that saves lives and an ecosystem
Thursday, Sept 7	Biesbosch NP & Nijmegen	Public-partnerships as a solutions tool
Friday, Sept 8	City & Port of Rotterdam	Knowledge exchange and community resilience





Major Points of Manifesto

- Connect the expertise and resources of knowledge producers and needs of knowledge users through an interdisciplinary collaborative approach among those in science, technology, academia, government, and business to better identify and define the context of problems and implement solutions.
- Advocate a holistic, integrated approach that matrixes all stakeholder values, including economic, social, cultural, and environmental values, as society brings many forms of capital to bear on solving water management and water security problems.
- Create a framework for collaboration among science, business, decision makers, and stakeholders to ensure that scientific and technological solutions are best-designed to address the needs of institutions, communities, and enterprises.
- Promote innovation as a tool to design, develop, and deploy solutions in an effort to derive novel business opportunities, reduce duplication of work, and efficiently use our available resources.



- Be inclusive and international in scope, so that the lessons learned and funding opportunities (in Europe, U.S., and elsewhere) can be extensible and scalable to other global applications and problems.
- Create frameworks and processes to remove barriers and foster collaboration for scientists and technology creators to understand/incorporate the key needs and requirements of government, business, and other institutions to change the current development paradigm regarding water resource management.
- Foster implementation of 'shovel-ready' projects that address identifiable social, economic, environmental, and scientific imperatives.
- Develop and execute a communication strategy to enable broad stakeholder engagement in order to derive new knowledge and generate collective and creative solutions to complex problems.



Topic		Elements
1.	Frontier of Grand Challenges in Water Resources	Define context and identify problem
2.	Economic Relevance	Societal, cultural, environmental, and investor impact
3.	Business/Policy Importance	Framework for collaboration
4.	Platform for Innovation	Promote innovation and reduce duplication of efforts
5.	International in Scope	Inclusive and international in scope
6.	Nexus of Government, Business, and Institutions	Change current paradigm
7.	Social, Economic, Environmental, and Scientific Imperatives	Foster “shovel-ready” projects
8.	Communication Strategy	Maximize broad stakeholder engagement



USUK Professional Program

- Monday through Thursday, June 26-29, 2018
- London, England
- Hosts: Birmingham, Exeter and Northampton Universities, Arup, CH2M/Jacobs, British Embassy, Consulates, European Space Agency, Ministry of Environment
- Theme: Financing and Economics of Resiliency
- Note: Pilot Program with expansion in 2019





USNC Academics

- Monday through Friday, May 14-June 4, 2018, Delft
- Two weeks in Netherlands and two weeks in US
- Hosts: IHE Delft, Technical University Delft, Wageningen University
- University partners: UF, FAU, FIU, UCF, USF, MIT, Arizona State, Duke, UC San Diego (Scripps), Pardee Rand, LSU
- Sponsoring UF unit: ESSIE and DCP
- Theme: Water management, infrastructure, resilience and governance course for graduate students



USNC Professional Program

- Monday through Friday, June 18-22, 2018
- Delft, The Netherlands
- Hosts: IHE Delft, Deltares, Rijkswaterstaat, Province Zeeland
- Note: Brings USNC Pro back to June time-frame, but has Florida Earth do two programs in one fiscal year. 2019 program would be in June.



Proposed Programs

- Delta Governance Resilience Short Course
 - Date TBD
 - Partners: IHE Delft, TU Delft and Delta Alliance
 - Steering Committee: Chris Zevenbergen and Margreet Zwarteveen, IHE Delft and Joliette Huizenga, Delta Alliance



The Florida Earth Young Scholars

- Nominated by partner institution
- Last half PhD program
- Unique qualifier above and beyond academics



Kelly Dunning
MIT



Anne Siders
Stanford



Shanoor Hasan
IHE Delft



Mattie Harvey
UCSD Scripps



Jenny Adler
UF

