

WATER, SOIL AND WASTE

DRESDEN NEXUS CONFERENCE

DNC 2017 | SDGs & NEXUS APPROACH:
Monitoring and Implementation

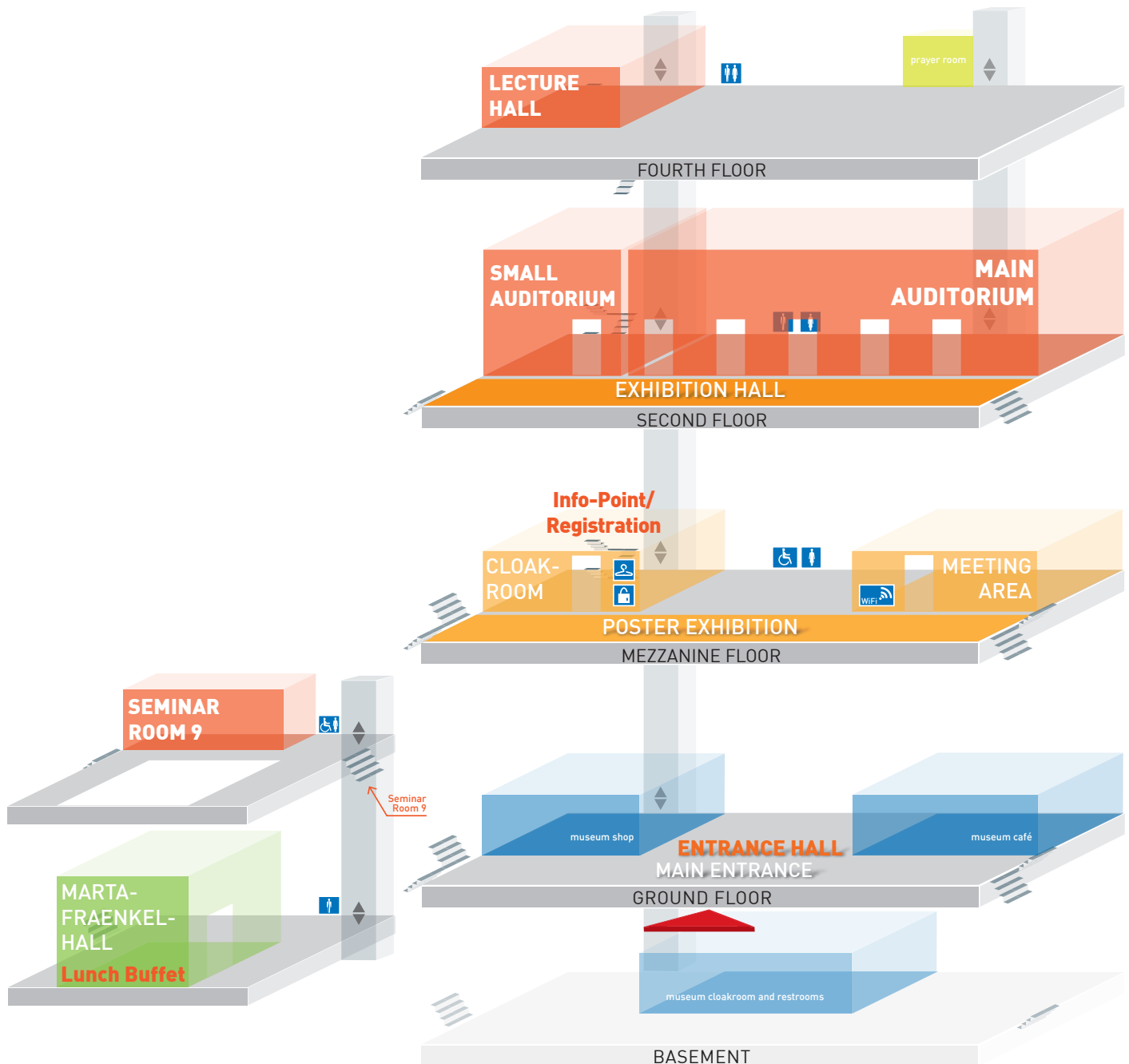
17-19 MAY 2017
DRESDEN, GERMANY

DEUTSCHES HYGIENE MUSEUM



#DNC2017

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Provided by IOER

Convenors:

A.1 United Nations Environment Programme (UNEP), German Development Institute (DIE), UNU-FLORES | A.2 United Nations University Institute for Water, Environment and Health (UNU-INWEH), International Water Management Institute (IWMI), UNESCO International Hydrological Programme (UNESCO-IHP) | A.3 Global Water Partnership (GWP), International Hydropower Association (IHA), African Network for Basin Organizations (ANBO), Nepal Water Conservation Foundation, IHE Delft Institute for Water Education | A.4 International Union of Forest Research Organizations (IUFRO), World Agroforestry Centre (ICRAF), TU Dresden, UNU-FLORES | A.5 Texas A&M University, Center for Environmental Systems Research (CESR), UNU-FLORES | A.6 Center for Environmental Systems Research (CESR), Wrocław University of Environmental and Life Sciences (WUELS), United Nations University Institute for Natural Resources in Africa (UNU-INRA) | B.1 Global Change Research Institute of the Czech Academy of Sciences (CzechGlobe), United Nations University Institute for Environment and Human Security (UNU-EHS) | B.2 IOER, International Eco-Cities Initiative - University of Westminster | B.3 TU Dresden and Helmholtz Centre for Environmental Research (UFZ) jointly as Center for Advanced Water Research (CAWR), Wrocław University of Environmental and Life Sciences (WUELS) | B.4 IOER, United Nations Environment Programme (UNEP) | B.5 Watercycle Research Institute (KWR), University of Exeter, Arup International Development | B.6 UN-Habitat, UNU-FLORES | X.1 TU Dresden, IHE Delft Institute for Water Education | X.2 UNU-FLORES, Wageningen University | X.3 German Development Institute (DIE), Mercator Research Institute on Global Commons and Climate Change (MCC), Stockholm Environment Institute (SEI), German Committee Future Earth | X.4 International Institute for Sustainable Development (IISD)

DAY 1

Plenary | Main Auditorium

Introduction by Reza Ardakanian (UNU-FLORES), Karl-Heinz Feger (TU Dresden), and Bernhard Müller (IOER)

Opening Ceremony | Uwe Gaul, State Secretary, SMWK, Tania Rödiger-Vorwerk, Deputy Director General for Environment and Infrastructure (BMZ), Frithjof Maennel, Deputy Director General for International Cooperation (BMBF)

9:00-10:30 **Keynote Speeches (Q & A Session) | Moderator: Wim van Vierssen**

Jerome Delli Priscoli: "Water Investments: Fundamental Social Means for Adapting to Climate Change and Building Resilience in Our Cities"

Nicola Fohrer: "Multifunctional Landscapes: Assessing the Interconnectedness of Water, Food, and Biodiversity"

10:30-11:00 | Coffee Break | Exhibition Hall, Mezzanine Floor Gallery

Session A.1 | Main Auditorium

Wastewater Reuse in Nexus Perspective: Environmental, Economic, and Societal Opportunities

Session B.1 | Small Auditorium

Adaptation of Cities to Global Change for Urban Resilience

Session B.2 | Lecture Hall

Smart Green Cities and the Water-Soil-Waste-Energy Nexus

Session X.1 | Seminar Room 9

Knowledge Management and Transfer for Adoption of a Nexus Approach and Achieving SDGs

Session A.3 | Main Auditorium

Roles of Multifunctional Reservoirs in the SDG Agenda

Session A.2 | Small Auditorium

Resource Recovery and Reuse in Multifunctional Land-Use Systems

Session B.5 | Lecture Hall

Assessing Resilience at the City Level: Methods, Frameworks, Models and Tools

Session X.2 | Seminar Room 9

New and Refined Approaches Supporting the Implementation of a Nexus Approach

15:30-16:30 **Poster Session A.1-A.3 | Mezzanine Floor Gallery**

Poster Session B.1-B.2, X.2 | Meeting Area

15:30-16:30 | Coffee Break | Mezzanine Floor Gallery

Plenary | Main Auditorium

Panel Discussion | on Case Studies implementing the Nexus Approach in Resilient Cities

Moderator: Fritz Holzwarth, IHE Delft Institute for Water Education | **Expert Commenters:** on **Monitoring:** Rudolph Cleveringa, GWP | on **Implementation:** Ruth Ertbeck, GIZ

16:30-18:00 **Case Studies:**

Germany: "Regional Climate Change Adaptation Programme for the Dresden Region (REGKLAM)", Christian Korndörfer, City of Dresden

Tunisia: "Use of Treated Wastewater and Sewage Sludge in Ouardanine: Current Status and Future Aspirations", Olfa Mahjoub, Tunisian National Research Institute for Rural Engineering, Water, and Forestry

Czech Republic: "Stakeholder Participation and Implementation of Climate Change Adaptation Strategies in Czech Cities", David Vačkář, Global Change Research Institute

18:30-20:30 **Welcome Reception | Dresden City Hall, Ballroom**

DAY 2

Plenary | Main Auditorium

Keynote Speeches (Q & A Session) | Moderator: Rabi Mohtar

Eugenie Birch: "Making Cities Inclusive, Safe, Resilient, and Sustainable"

Luca Montanarella: "The Importance of Sustainable Soil Management within Multifunctional Land-Use Systems for Achieving the SDGs"

10:00-10:30 | Coffee Break | Exhibition Hall, Mezzanine Floor Gallery

Session A.5 | Main Auditorium

Tools, Data and Instruments for Management of Environmental Resources

Session A.4 | Small Auditorium

Water and Soil Related Ecosystem Services Provided by Forests And Agroforestry Systems

Session X.3 | Lecture Hall

A Systematic Approach to Map SDG Interactions for Practical Decision-Making

Session B.4 | Seminar Room 9

Nature-Based Solutions for Resilient and Sustainable Cities

12:00-13:30 | Lunch Martha-Fraenkel Hall

Session A.6 | Main Auditorium

Monitoring and Assessment of Resource Use in Multi-Functional Land-Use Systems

Session X.4 | Small Auditorium

Building-Up Monitoring and Reporting on SDGs Based on Sub-National and National Efforts

Session B.6 | Lecture Hall

Monitoring and Assessment of Resource Use in Resilient Cities

Session B.3 | Seminar Room 9

Water Scarcity and Urbanization: Integrated Management of Water Supply and Sanitation

15:00-16:00 **Poster Session A.4-A.6 | Mezzanine Floor Gallery**

Poster Session B.3-B.6 | Meeting Area

15:00-16:00 | Coffee Break | Mezzanine Floor Gallery

Plenary | Main Auditorium

Panel Discussion | on Case Studies implementing the Nexus Approach with Multifunctional Land-Use Systems

Moderator: Nicola Fohrer, Christian-Albrechts-Universität zu Kiel | **Expert Commenters:** on **Monitoring:** Rattan Lal, Ohio State University | on **Implementation:** Ania Grobicki, Ramsar Convention

16:00-17:30 **Case Studies:**

China: "Large Scale Vegetation Restoration in the Loess Plateau Region Threatens Water Security in Northern China", Yanhui Wang, Chinese Academy of Forestry

Vietnam: "Management of Mineral Resource Extraction in Hoa Binh Province - a Contribution to Sustainable Development (MAREX)", Ngo Trung Hai, Vietnam Institute for Urban and Rural Planning

Kenya: "Payment for Ecosystem Services as a Catalyst for Sustainable Land Management in Sasumua Catchment", John M. Gathenya, Jomo Kenyatta University

18:30 **Gaming Session: Water-Energy Nexus Game | Martha-Fraenkel Hall**

Convener: International Institute for Applied Systems Analysis (IIASA)

DAY 3

Plenary | Main Auditorium

Keynote Speeches (Q & A Session) | Moderator: H.E. Ambassador Csaba Körösi

Stefan Uhlenbrook, UNESCO-WWAP: "How to Accelerate Achieving SDGs? The Need for Integrated Analysis and Synthesis Across the 2030 Agenda"

Stefan Bringezu, CESR: "Key Strategies to Achieve the SDGs and Consequences for Monitoring Resource Use"

10:00-11:00 **World Café | Main Auditorium**

11:00-11:30 | Coffee Break | Main Auditorium

Plenary | Main Auditorium

Conference Wrap-up | Moderator: Reza Ardakanian

11:30-13:00 **János Bogárdi, Center for Development Research of the University Bonn, DNC2017 International Scientific Advisory Committee Co-Chair, H.E. Ambassador Csaba Körösi, Directorate for Environmental Sustainability, Office of the President, The Republic of Hungary, Birguy Lamizana-Diallo, UN Environment, DNC2017 International Scientific Advisory Committee Co-Chair, Kwang Kook Park, Korea Environment Institute, President**

Closing Remarks | Jacob Rhyner, Vice-Rector in Europe, UNU, Hans Georg Krauthäuser, Vice-Rector for Academic and International Affairs, TU Dresden, Bernhard Müller, Director, IOER

13:00-14:00 | Lunch | Martha-Fraenkel Hall

Excursion A | 14:00-20:00
Post-Mining Area of the Upper Lusatian Region, Germany

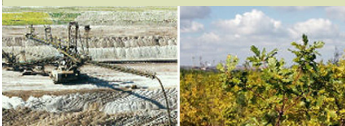


Photo: Archiv LEAG

Excursion B | 14:00-17:00
Waste Water Treatment Plant, Sewage Purification and Sludge Processing (Dresden-Kaditz)



Photo: Jana Wenke/Stadentwässerung Dresden GmbH

Excursion C | 14:00-15:30
Flood Pumping Station and Stormwater Overflow Tank (Dresden - Johannstadt)



Photo: Torsten Fiedler/Stadentwässerung Dresden GmbH

Excursion D | 14:00-16:30
Weißeritz Green Belt (Dresden - Plauen)



Photo: Michael Löser/Landeshauptstadt Dresden