WATER: Addressing the Global Crisis

Lead Faculty – Therese Sjömander Magnusson, SIWI

0. Introduction: Experience, Knowledge, and Understanding

0.0 Welcome to this MOOC – Therese Sjömander Magnusson

0.1 Introduction to Water – Pro. Charles Vorosmarty, City University New York

0.2 SDG Vision Statement in 2030 – Pro. Charles Vorosmarty, City University New York

1. No One Will Be Left Behind (Champion: Stefan).

1.1 The Global Goal on Water - Stefan & Angela (UNESCO).

1.2 Water for All, Health for All – Rick Johnson (WHO) and Tom Slaymaker (UNICEF)

1.3. Water-Related Ecosystems - Stuart Crane (UNEP) Hartwig Kremer (UNEP)

1.4 Influencing economies - Marriane Kjellen (UNDP)

1.5 Eliminating Inequalities – Stefan Uhlenbrook (UNESCO)

1.6 Enabling Environment for Change - Stefan & Angela (UNESCO)

2. Climate Change (Champion: John Matthews).

- 2.1 Weather or Climate?
- 2.2 Defining Vulnerability and Solutions
- 2.3 Climate Adaptation and Water Management
- 2.4 Social Fragility, Conflict, and Mitigation

3. Water and Ecosystems (Champion: Angela Ortigara).

3.1 The State of the World's Water Resources - Stefan Uhlenbrook (UNESCO)

3.2 Global Water Challenge: Gray-Green Solutions - Charles Vorosmarty (CUNY)

3.3 Untapping the Potential of Wastewater – Angela Ortigara (UNESCO)

3.4 Nature-based Solutions - Stefan Uhlenbrook (UNESCO)

3.5 Nature-based Solutions: Resilience - Vladimir Smakhtin (UNU)

3.6 Nature-based Solutions: Real-Life Examples - Engin Koncagul (UNESCO

- 4. Water Governance Crisis: Who Gets the Water, When and How? (Champion: Marianne Kjellen).
- 4.1 Water Governance Alejandro Jimenez (SIWI
- 4.2 Water Services Governance Alejandro Jimenez (SIWI)
- 4.3 Water Resource Governance: from Source to Sea- Ruth Mathews (SIWI)
- Part A Source to Sea The Challenge
- Part B Source to Sea Accelerating Progress
- 4.4 Impact of water footprints Ruth Mathews
- 4.5 Good Water Governance for Accelerating Progress Marianne Kjellen (UNDP)
 - 5. Water and Sanitation Services and Delivery (Champion: Alejandro Jímenez).
 - 5.1 Overview of Water, Sanitation, and Hygiene (WaSH)- Alejandro Jimenez
 - 5.2 Sanitation Service Chain: an Overview Martin Gambrill (WB)
 - 5.3 Urban Sanitation Rémi Kaupp (WaterAid)
 - 5.4 Rural Sanitation Sarah Dickin (SEI)
 - 5.5. Finance Joel Kolker (World Bank)
 - 6. Transboundary Water: Source of Conflict or Solution? (Champion: Therese Sjömander Magnusson).
- 6.1 From a Natural Resource into a Political Resource Therese Sjömander Magnusson (SIWI)
- 6.2 The Obligation to Cooperate Mara Tignino (University of Geneva)
- 6.3 Framework for Collaboration Therese Sjömander Magnusson (SIWI)
- 6.4 Case Study: Middle East Anders Jagerskog (World Bank)
- 6.5 Case Study: Nile Anders Jagerskog (World Bank)

7. Food and Water (Champion: Jan Lundqvist)

- 7.1 Green, Blue, and Grey Water Samer Tolazi (Director, Methods for Irrigation and Agriculture- Jordan)
- 7.2 From Field to Fork Jan Lundqvist (Prof, SIWI)
- 7.3 An Inconvenient Legacy Jan Lundqvist (Prof, SIWI)
- 7.4 Nature-based Solutions and Agriculture Olcay Unver (FAO)

- 8. A Critical Connection: Water + Energy (Champion: Nathanial Matthews).
- 8.1 The Nexus Approach Nathaniel Matthews (Global Resilience Partnerships)
- 8.2 Case Study: A Ten Year Program, Songwe River Anton Earle (SIWI)
- 8.3 How does Hydropower Impact Water? Nathaniel Matthews (Global Resilience Partnerships)
 - 9. Case Studies

S.No	Expert	Organization	Торіс
1	Vedika Bhandarkar	Water.org	Impact Finance
2	Eleanor Allen	Water for People	Water Services in Rulindo, Rwanda
3	Dr. Ruud Grim	The Netherlands Space Office	Space for Food Security
4	Kusum Ahtukorala	Network for Women water Professionals	Empowering Women
5	Viktoria Granstrom	IKEA Industries	Good Water Management in Industry
6	Anna Inozemtceva	The Regional Environmental Center for Central Asia (CAREC)	Agriculture History of Central Asia
7	Emilio Guzman	SIWI	Corporate Social Responsibility in the Water Sector (STWI)