

An interdisciplinary
graduate program in

Water: Systems, Science
and Society

WSSS

Water: Systems, Science and Society
Interdisciplinary Certificate Program for Graduate Students
Tufts University • Medford, Massachusetts • USA



Water: Systems, Science and Society

- A graduate education and research program
- About water and people

Water:

SYSTEMS, SCIENCE, AND SOCIETY

A Problem-Focused Initiative

"... in the 21st Century we have to develop an integrated approach across the disciplines to understand the complexity of water issues worldwide."

Dr. Rita Coldwell, Former *NSF Director*

- WSSSS Program Goals

- Provide a multidisciplinary background in water for graduate students coincident with their own graduate specialty
- Meet the growing global demand for interdisciplinary water experts
- Attend to some of the world's most pressing water problems including “water and sanitation” and “water and poverty”
- Create a community of interdisciplinary water scholars

Partnership of 6 Tufts Schools:

- Arts and Sciences
- Engineering
- Fletcher School of Law and Diplomacy
- Medical School
- Friedman School of Nutrition Science and Policy
- Veterinary Medicine

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WSSS Participating Faculty Advisors



Department of Civil and Environmental Engineering, School of Engineering

Linda Abriola, Steve Chapra, Wayne Chudyk, John Durant, David Gute
Shafiqul Islam, Steve Levine, Kurt Pennell, Andrew Ramsburg, Rich Vogel

Department of Biology, School of Arts & Sciences

Michael Reed

Department of Chemistry, School of Arts & Sciences

Jonathan Kenny

Department of Urban and Environmental Policy and Planning, School of Arts & Sciences

Julian Agyeman, Sheldon Krinsky, Scott Horsley, Barbara Parmenter, Rusty Russell

Department of Political Science, School of Arts & Sciences

Kent Portney

Department of Geology, School of Arts & Sciences

Grant Garven, Jack Ridge

Friedman School of Nutrition Science and Policy

Timothy Griffin, Beatrice Rogers, Peter Walker

Cummings School of Veterinary Medicine

Mark Pokras, Acacia Warren,

Fletcher School of Law and Diplomacy

William Moomaw

Department of Public Health & Family Medicine, School of Medicine

Jeffrey Griffiths, Elena Naumova

Interdisciplinary WSSS Research Agenda

- Water Management in a Changing Environment: Hydromorphology and Climate Change
- Water and Public Health
- Watershed Management
- Water Pollution and Remediation Science
- Water, Agriculture, Food, and Livelihood Security
- Water and National and International Security

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School of Arts and Sciences

Rusty Russell	Environmental Law
Grant Garven	Groundwater
Jack Ridge	Geomorphology
Jonathan Kenny	Characterization of organics
Frank Ackerman	Environmental Economics
Astier Almedom	Bio-medical Anthropology
Lawrence Bacow	Environmental Economics & Policy
Scott Horsley	Water Resources Policy/Planning
Sheldon Krinsky	Environmental Policy & Ethics
David O'Leary	Comparative Religion & Ethics
Ann Rappaport	Environmental Science & Management
Michael Reed	Ecology, Conservation
Albert Robbat	Analytical Instrumentation
Barbara Parmenter	Environmental Planning and GIS
David Walt	Sensors & Pathogen Detection
Jon Witten	Land Use Planning

School of Engineering

Richard Vogel	Hydrology, Water Resource Systems
Linda Abriola	Groundwater Pollution/Remediation
Steven Chapra	Water Quality, Mathematical Modeling
John Durant	Environmental Fate & Transport
David Gute	Epidemiology & Public Health
David Kaplan	Environmental Microbiology
Andrew Ramsburg	Groundwater Pollution/Remediation
Kurt Pennell	Groundwater Pollution/Remediation
Shafiq Islam	Remote Sensing, Hydrometeorology, Hydrology
Wayne Chudyk	Environmental Chemistry and Engineering

Fletcher School of Law and Diplomacy

William Moomaw*	Environmental Policy & Negotiations
Leila Fawaz	Interstate Disputes in the Middle East

Medical School

Jeffrey Griffiths	Water-born Disease
Elena Naumova	Public Health, Mathematical Modeling

Veterinary School

Christine Jost	Ecosystem Health Assessment
Saul Tzipori	Waterborne Pathogens
Mark Pokras	Ecology & Disease

Friedman School of Nutrition Science and Policy

Patrick Webb	Household Water Security
Beatrice Rogers	Economics/Food Policy
Peter Walker	Natural Disaster Relief

Tim Griffin Food and Agriculture

Thank you. Questions ? Comments ?

Water:

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