

Directory of Water Resources Expertise

Adams, E. Eric

Dept. of Civil & Environmental Engineering
MIT 48-325

Massachusetts Institute of Technology
Cambridge, MA 02139

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EMAIL: eeadams@mit.edu

BS. Harvey Mudd College

M.S. MIT

Ph.D. MIT

UPDATED 12/ 1/2000

COURSES:

Environmental Fluid Mechanics Lab, Environmental Engineering Clinic, Water Quality Control

SPECIALTY:

Environmental Fluid Mechanics, Mixing in inland and coastal waters, Hydrologic tracer studies

RESEARCH:

Environmental effects of ocean CO₂ sequestration.

Modeling two phase plumes with application to deep sea oil spills.

Behavior of capped contaminated marine sediments.

Interfacing near and far field models of 3-D water quality.

INTERESTS:

Jets and Plumes

Initial Mixing

Hydrodynamic and Water Quality Modeling

Ahern, Jack F.

Landscape Arch. & Regional Planning
Hills North

University of Massachusetts/Amherst
Amherst, MA 01003

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BS University of Massachusetts

MS University of Pennsylvania

UPDATED 12/ 1/2000

COURSES:

Landscape Pattern and Process; Landscape Planning Studio; Plants in the Landscape

SPECIALTY:

Landscape Planning, Watershed Planning, Landscape Ecological Planning

RESEARCH:

Integration of Cultural and Ecological Parameters in Watershed Planning

Innovative Stormwater Management Principles and Practices

INTERESTS:

Landscape Planning

Landscape Ecology

Watershed Planning

Stormwater Management

Non-point Source Pollution

Ahlfeld, David

Civil & Environmental Engineering
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BS Humboldt State
MA Princeton University
PhD Princeton University

UPDATED 12/ 1/2000

COURSES:

Fluid Mechanics, Hydraulics, Hydrology, Open Channel Flow, Water Resources Engineering, Groundwater Numerical Methods, Optimization, Systems Analysis, Contaminant Fate and Transport in the Subsurface

SPECIALTY:

Environmental Fluid Dynamics, Water Resources Engineering, Systems Analysis, Mathematical Modeling and Numerical Models, Groundwater Flow and Contaminant Transport, Design of Groundwater Remediation Systems

RESEARCH:

Management of water resource systems for water supply and water quality;

Numerical aspects of optimization modeling of groundwater systems;

Groundwater/surface water interactions

INTERESTS:

Modeling

Groundwater

Contaminant Transport

Remediation

Systems Analysis

Alexander, David E.

Dept. of Geosciences
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University of Massachusetts/Amherst
Amherst, MA 01003

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BSc London School of Economics

PhD University College - London

UPDATED 3/ 1/1990

COURSES:

Arid and semi-arid environments; natural hazards(including floods); fluvial geomorphology; tropical geomorphology.

SPECIALTY:

Open channel hydraulics; hydrology and sedimentation; soil erosion; natural hazards and disasters.

RESEARCH:

Landslides and soil erosion in small drainage basins; the hydraulics of Leonardo Da Vinci.

INTERESTS:

Geomorphology

Hydraulics

Arid Climates

Alpert, Peter

Biology

Department of Biology, PO Box 35810

University of Massachusetts/Amherst

Amherst, MA 01003

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EMAIL: palpert@bio.umass.edu

Ph.D. Harvard University

UPDATED 12/ 1/2000

COURSES:

Plant Ecology

Introduction to Ecology

SPECIALTY:

Riparian Forest Restoration

Riparian Vegetation Survey & Classification

RESEARCH:

none

INTERESTS:

Plant Ecology

Invasive Species

Clonal Plants

Conservation Biology

Integrated Conservation & Development

Altabet, Mark A.

School of Marine Science & Technology

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University of Massachusetts/Dartmouth

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Ph.D. Harvard University

UPDATED 12/ 1/2000

COURSES:

Chemical Oceanography, Chemistry and the Environment

Special Topics in Global Geochemical Cycles

SPECIALTY:

Nutrient and Isotopic Biogeochemistry

RESEARCH:

Marine Nitrogen cycle processes, past and present

INTERESTS :

biogeochemical cycling

nitrogen

stable isotopes

climate change

marine environment

Amarasiriwarden, Dula D.

School of Natural Science

Hampshire College

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BS University of Ceylon, Sri Lanka

M.Phil University of Sri Lanka

PhD No. Carolina State University

UPDATED 12/ 1/2000

COURSES:

Environmental chemistry; General chemistry; Instrumentation and analytical chemistry.

Pollution and Our Environment; Physics and Chemistry of the Environment.

SPECIALTY:

Speciation and characterization of trace metals bound to aqueous humic substances and colloids.

Trace metal environmental chemistry

RESEARCH:

Speciation and characterization of trace metals bound humic acids by size exclusion chromatography coupled with ICP-MS.

Characterization of trace metals complexed to aqueous colloidal and humic substances by field flow fractionation-ICP-MS.

Chemistry of Acid Mine Drainage waters.

INTERESTS:

Aqueous and Soil Humic Substances

ICP-MS

Acid Mine Drainage Chemistry

Chemical Speciation

Trace Metal Analysis

Anderson, Molly

Dept. of Urban & Environmental Policy

Miller Hall

Tufts University

Medford, MA 02155

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EMAIL: Molly.Anderson@tufts.edu

BS Colorado State University

MS Colorado State University

PhD University of North Carolina

UPDATED 12/ 1/2000

COURSES:

Environment & Food Supply; Food & Environmental Risk Communication.

Agroecology; Northeast Food Systems Analysis & Reform

SPECIALTY:

Agricultural & Water Quality Policy Analysis

RESEARCH:

Water Quality and Resource Management on a Watershed Scale in the Mystic Watershed

INTERESTS:

Stormwater Runoff

Confluence of Science in Water research

Mystic River

University/Community Partnerships

Community Research

Archer, Jack H.

Environmental, Coastal, & Ocean Sciences Graduate Programs
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B.A. University of Texas
M.A. University of Texas
J.D. University of California
L.M. University of Washington

UPDATED 12/ 1/2000

COURSES:

Coastal and Ocean Law

SPECIALTY:

CWA, CZMA, MSA, OCSLA, MMPA, ESA, and other federal and state legal authorities, including the public trust doctrine

RESEARCH:

none

INTERESTS:

ocean and coastal law and policy

Baram, Michael S.

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Boston, MA 02118
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BS Tufts University
LLB Columbia Law School

UPDATED 3/ 20/1996

COURSES:

Environmental Law (Federal and State Regulations, Tort Liability)
Advanced Environmental Law (Protection of Natural Resources)
Corporate Management of Environmental Risks

SPECIALTY:

Environmental Risk Law and Management
Corporate Risk Management
Social Control of Chemical Risks

RESEARCH:

Use of Wastewater and Sludge for Agriculture and Land Restoration.
Watershed Management and Restoration

INTERESTS:

Law
Risk Management
Agriculture

Barnes, Ramon M.

Chemistry
701 Lederle Graduate Research Tower
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BS Oregon State University
MA Columbia University
PhD University of Illinois/Urbana

UPDATED 12/ 1/2000

COURSES:

Quantitative Analysis, Analytical Chemistry, Instrumental Analysis, Spectrochemical Analysis

SPECIALTY:

Trace Metal Analysis by ICP and ICP-MS, Isotope Ratio Analysis, Sediments; Inductively Coupled Plasma Spectrometry

RESEARCH:

Trace Metal Analysis by ICP and ICP-MS, Isotope Ratio Analysis, Sediments; Inductively Coupled Plasma Spectrometry

INTERESTS:

Ultra-trace Analysis
Metals
Humic Materials
Isotope Ratio Analysis
ICP-MS

Barros, Ana P.

Environmental Engineering
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BS University of Porto, Portugal
MSc University of Porto, Portugal
MSc OR Institute of Science & Technology
PhD University of WA, Seattle

UPDATED 12/ 1/2000

COURSES:

Advanced Hydrology, Hydrometeorology, Environmental Transport

SPECIALTY:

Environmental Fluid Mechanics, Hydrology, Hydrometeorology, Transport, Natural Hazards

RESEARCH:

Orographic precipitation processes; quantitative precipitation forecasting; hydrology of mountainous areas; regional aspects of global change and climate variability; scaling issues in hydrology; land-atmosphere interactions; soil-vegetation-hydrology interactions in land-margin environments; remote sensing (retrieval algorithms and data assimilations); environmental fluid mechanics; sediment mobility and transport in rivers, estuaries, and contributing watersheds; hydrology of flood and droughts and the predictability of natural hazards.

INTERESTS:

Remote-sensing
Hydrology
Hydraulics
Hazards
Hydrometeorology

Barten, Paul K.

Natural Resources Conservation
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BS SUNY Syracuse
MS University of Minnesota
PhD University of Minnesota

UPDATED 12/ 1/2000

COURSES:

Forest and Wetland Hydrology, Forest Resources Management, Introduction to Spatial Information Technologies

SPECIALTY:

Forest and Wetland Hydrology, Watershed Forest Management
Land Use Impact Assessment, Spatially-distributed Modeling
Watershed Management

RESEARCH:

Watershed Field Experiments: Quabbin Forest, Great Mountain Forest (Norfolk CT), NorSask Forest, Meadow Lake Saskatchewan, New Haven Watershed Project, Chicopee River Watershed Water Quality Monitoring

INTERESTS:

Watershed Structure and Function
Land and Resource Use Impacts
Non-point Source Pollution Mitigation
Watershed Management
Public Water Supply

Botsaris, Gregory D.

Chemical and Biological Engineering
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BS University of Athens, Greece
MS MIT
PhD MIT

UPDATED 12/ 1/2000

COURSES:

Surface and Colloid Chemistry, Crystallization, Thermodynamics

SPECIALTY:

Separation and destruction of toxic compounds from industrial effluents

RESEARCH:

Use of ionic liquids for the extraction of pollutants from industrial effluents.
Freeze concentration for the volume reduction of effluents from the bleaching plants of paper-pulp mills.

INTERESTS:

Freeze Concentration
Crystallization
Extraction by ionic liquids

Boyce, James K.

Economics
Thompson Hall
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BA Yale
MA Oxford
PhD Oxford

UPDATED 12/ 1/2000

COURSES:

Political Economy of the Environment

SPECIALTY:

Economic and political dynamics of water pollution
Asian rice irrigation

RESEARCH:

Director of National Assets Project, funded by the Ford Foundation, a collaborative research project that explores the scope for policies that simultaneously advance the goals of poverty reduction, environmental protection, and environmental justice.

INTERESTS:

Economics
Policy Analysis

Bradley, Raymond S.

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BS Southampton University
MA University of Colorado
PhD University of Colorado

UPDATED 3/ 16/1996

COURSES:

Climatology, Paleoclimatology,
Problems in Climatology, Climatic Change

SPECIALTY:

Climatology; climatic change;
Paleoclimatology, global change

RESEARCH:

Precipitation changes, global warming, climate variability.

INTERESTS:

Climate
Paleoclimatology

Bras, Rafael L.

Civil & Environmental Engineering

Rm 1-290 Ralph M. Parsons Lab.

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EMAIL: rlbras@mit.edu

BS MIT

MS MIT

ScD MIT

UPDATED 12/ 1/2000

COURSES:

Hydrology, Stochastic hydrology, Water resource systems.

SPECIALTY:

Surface and groundwater hydrology; Hydrometeorology; Hydroclimatology; Fluvial geomorphology; Precipitation; Flood and precipitation forecasting.

RESEARCH:

Scaling, similarity and growth of river basin networks; basin evolution models; real time flood forecasting using weather radar and digital elevation maps; morphology of mesoscale precipitation and simulation of rainfall; land-atmosphere interactions.

INTERESTS:

Hydrology

Climate

Geomorphology

Precipitation

Brown, Linfield C.

Civil & Environmental Engineering

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Tufts University

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EMAIL: lbrown1@tufts.edu

BS Tufts University

MS Tufts University

PhD University of Wisconsin-Madison

UPDATED 12/ 1/2000

COURSES:

Intro to Environmental Engineering

Probability and Statistics for Engineers

Environmental Engineering Processes

Environmental Statistics

SPECIALTY:

Statistics for Environmental Engineers;

Water Quality Modeling

RESEARCH:

Water Quality Modeling; Environmental Statistics; Uncertainty Analysis

INTERESTS:

Environmental Statistics

Water Quality Modeling

Uncertainty analysis

Bruell, Clifford J.

Civil & Environmental Engineering
One University Avenue
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BS Lowell Technological Institute

MS Lowell Technological Institute

PhD University of Connecticut

UPDATED 12/ 1/2000

COURSES:

Physical and Chemical Hydrogeology, Hazardous Waste Site Remediation
Environmental Chemistry
Municipal, Industrial, and Hazardous Waste Management
Environmental Engineering

SPECIALTY:

Remediation Technologies for Chlorinated Solvents and Gasoline
Hydrocarbons in Ground Water Systems
Fate and Transport of Organics in Ground Water Systems
Wastewater Treatment

RESEARCH:

In Situ Chemical Oxidation of Gasoline Hydrocarbons and Chlorinated Solvents

INTERESTS:

Water Chemistry
Groundwater Quality
Hydrogeology

Buttner, Joseph K.

Biology
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Salem, MA 01970

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BS Loyola University

MS Loyola University

UPDATED 12/ 1/2000

COURSES:

Introduction to Biology, Introduction to Aquaculture, Aquaculture Methods, Advanced Aquaculture
Fish Biology, Applications of Aquaculture in the Classroom, Biology Seminar

SPECIALTY:

Aquaculture, Water Quality, Macrobenthic Invertebrates (freshwater)

RESEARCH:

Shellfish Culture, Finfish Culture (freshwater and marine)
Aquaculture as an Educational Tool, Outreach/Extension

INTERESTS:

Aquaculture
Water Quality

Camesano, Terri A.

Chemical Engineering
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BS University of Rochester
BS University of Rochester
MS University of Arizona
PhD Pennsylvania State University

UPDATED 12/ 1/2000

COURSES:

Transport and Transformation in the Environment

SPECIALTY:

none

RESEARCH:

Adhesion of Bacteria to Soil.
Interactions between Bacteria and Natural Organic Matter Using Atomic Force Microscopy.
Confirmation of Biopolymers in Aqueous Systems and Their Role in Coagulation in Natural and Engineered Systems.

INTERESTS:

Bacteria Adhesion
Bacterial Transport in Porous Media
Colloid Transport in Porous Media Coagulation
Bacterial-Natural Org. Interactions

Chapra, Steven C.

Civil & Environmental Engineering
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BE Manhattan College
ME Manhattan College
PhD University of Michigan

UPDATED 12/ 1/2000

COURSES:

Water Quality Modeling

SPECIALTY:

Water Quality Modeling; Advanced Decision Support

RESEARCH:

Impact of Road Salt on the Upper Mystic Lake, MA; Impact of Zebra Mussels on the Water Quality of the Seneca River, NY;
Fate and Transport of Phosphorus and Arsenic on Spy Pond, MA

INTERESTS:

Mathematical Modeling
Advanced Decision Support
TMDLs
Sediment-Water Interactions
Heavy Metals

Chen, Robert F.

Environmental Sciences Program

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WEB: www.es.umb.edu

BA Harvard University

PhD Scripps Inst. of Oceanography

UPDATED 12/ 1/2000

COURSES:

Organic Geochemistry, Environmental Biogeochemistry; Analytical Techniques in Environmental Sciences

Intro to Oceanography, Intro to Environmental Sciences

SPECIALTY:

Coastal Oceanography, Marine Chemistry, Organic Geochemistry

RESEARCH:

Studies of Chromophoric Dissolved Organic Matter in Estuaries, Identification of Endocrine Disruptors in Coastal Waters
Salt Marsh Inputs of Organic Matter into Estuaries; Natural Oil Seeps, Chemical Sensor Development

INTERESTS:

Dissolved organic matter

Fluorescence

Endocrine disruptors

Towed vehicles

Chemical sensors

Clark, John M.

Entomology

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University of Massachusetts/Amherst

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BS University of Wisconsin

MS University of Wisconsin

PhD Michigan State University

UPDATED 12/ 1/2000

COURSES:

ENVSCI 315 Principles of Environmental Tox. and Chem.; ENVSCI 535 Methods for Environmental Tox. and Chem.;

ENVSCI 555 Env. Tox. in Context, ENVSCI 585 Toxicology of Insecticides

SPECIALTY:

Aquatic and Marine Invertebrate Toxicology, Environmental Fate of Pesticides (ground, surface and potable waters)

RESEARCH:

Fate of Turfgrass Pesticides on golf courses ; Interagency groundwater monitoring study (MA Pesticide Analytical Lab, CRNR/DFA/USEPA)

INTERESTS:

Neurotoxicology

Exposure

Fate

Pesticides

Metabolism

Colburn, Elizabeth A.

Center for Biological Conservation
208 South Great Road
Massachusetts Audubon Society
Lincoln, MA 01773

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MS University of Wisconsin
PhD University of Wisconsin

UPDATED 3/16/1996

COURSES:

Hydrology, Water Quality, Implementation of the Mass. Wetlands Protection Act, Vernal Pools

SPECIALTY:

Physiological Ecology & Phenology of Aquatic Invertebrates, Community Dynamics in Aquatic Systems
Aquatic Biodiversity, Ecological Indicators

RESEARCH:

Biodiversity of Vernal Pools and other small wetlands, Wetland Invertebrates, Inventory of Aquatic Insects of Massachusetts

INTERESTS:

Wetlands
Invertebrates
Vernal Ponds

Coombs, Jennifer S.

Geology
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AA Simon's Rock College
BS University of Massachusetts/Amherst
MSES Bard College
PhD Syracuse University

UPDATED 12/1/2000

COURSES:

Environmental Geology, Physical Geology, Natural Disasters and Catastrophes, Groundwater Geochemistry
Marine Resources, Physical Oceanography, Wetlands, Groundwater Modeling

SPECIALTY:

Groundwater Geochemistry, Wetlands,
Hydrogeology, Nutrient Transport and Fate

RESEARCH:

Wetlands, Peatlands, Global Carbon Cycling, Material Properties of Peat,
Nutrient Cycling; Fate and Transport of Nutrients in Wetland Systems

INTERESTS:

Wetlands
Peatlands
Global Carbon Cycling
Material Properties of Peat
Nutrient Cycling

Cooney, Joseph J.

Environmental, Coastal and Ocean Sciences
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BS LeMoyne College
MS Syracuse University
PhD Syracuse University

UPDATED 12/ 1/2000

COURSES:

none

SPECIALTY:

Environmental microbiology

RESEARCH:

Interactions between Organometals and Microorganisms,
Microbial Biofilms

INTERESTS:

Microbial Physiology
Microbial Ecology
Microbial Biofilms
Organometals
Indicator Viruses

Crusberg, Theodore C.

Biology and Biotechnology

Worcester Polytechnic Institute

Worcester, MA 01609

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EMAIL: crusberg@wpi.edu

BA University of Connecticut
MS Yale University
PhD Clark University

UPDATED 12/ 1/2000

COURSES:

Microbiology,
Molecular Genetics,
Principles of Microscopy

SPECIALTY:

Heavy metal remediation technologies using polymer enhanced defiltration with a high molecular weight bio-poly-anion

RESEARCH:

Microbial identification and quantification of waters using fluorescence in-situ hybridization dot matrix technology
Advisor to AWWA on Cryptosporidium identification using molecular techniques

INTERESTS:

Heavy Metals
Remediation
Bioremediation
Fish
Molecular Tech. for Microbial Detection

Curry, Kevin D.

Biology

PhD

Bridgewater State College

Bridgewater, MA 02325

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EMAIL:

UPDATED 3/16/1996

COURSES:

Biomonitoring and Water Pollution;

Ichthyology;

Limnology

Biological Environment;

General Biology

SPECIALTY:

Biological Indicators Using Fish and Macroinvertebrates

Macroinvertebrate Colonization of Artificial Substrates

Water Quality Monitoring

Volunteer Water Quality Monitoring

RESEARCH:

Influence of Flow on Macroinvertebrate Colonization of Artificial Substrates

Biological Assessment of Macroinvertebrates in Southeastern Massachusetts Rivers and Streams (Taunton River Watershed)

INTERESTS:

Water Quality Monitoring

Streams

Biomonitoring

Invertebrates

Dabkowski, Gregory M.

Chemical Analysis Laboratory

Tower A

University of Massachusetts/Amherst

Amherst, MA 01003

PHONE: 413 545-0045 FAX NO :

BA Central Connecticut State

MS University of Massachusetts

PhD University of Massachusetts

UPDATED 3/18/1996

COURSES:

Techniques in microelemental analysis.

SPECIALTY:

Elemental analysis of soils, sediments, and waters using ion chromatographic techniques.

RESEARCH:

Collaborative analytical services for researchers.

INTERESTS:

Water Chemistry

Davidson, Michael

Landscape Architecture & Regional Planning
106 Hills North
University of Massachusetts/Amherst
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BS University of Massachusetts/Amherst
MLA University of Massachusetts/Amherst

UPDATED 12/ 1/2000

COURSES:

Wetlands in Stormwater Management Design Studio

SPECIALTY:

New England Tidal Salt Marsh Mitigation

RESEARCH:

The Use of Wetlands in Stormwater Management
New England Tidal Salt Marsh Mitigation

INTERESTS:

Wetlands
Stormwater Management
Salt Marsh Mitigation

Deegan, Linda A.

Ecosystems Center
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WEB:

BS Northeastern University
MS University of New Hampshire
PhD Louisiana State University

UPDATED 12/ 1/2000

COURSES:

none

SPECIALTY:

Fish,
Biogeochemical Cycles,
Habitat

RESEARCH:

Streams and Estuaries

INTERESTS:

Fish
Habitat
Secondary Production
Coastal Ecosystems

Dethier, David P.

Geosciences

Williams College
Williamstown, MA 01267

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BA Dartmouth
MS University of Washington
PhD University of Washington

UPDATED 12/ 1/2000

COURSES:

Water and the Environment
Geomorphology
Environmental Geology and The Earth's Surface

SPECIALTY:

Acid Deposition
Surface Water Chemistry
Sediment Budgets for Upland Streams

RESEARCH:

Long-term Sediment Budget for Birch Brook, NW, MA
Sources of Stormflow in the Taconic and Greylock Ranges, MA

INTERESTS:

Acid Deposition
Sediment Transport
Terraces
Snowmelt Hydrology

Edwards, D. Craig

Biology

Morrill Science Center

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BA Swarthmore College
PhD University of Chicago

UPDATED 12/ 1/2000

COURSES:

Population & Community Ecology
Ecology
Human Ecology

SPECIALTY:

Salt Marsh Mollusks
Molluscan Assemblages of Bahamian Inland Blue Holes and Other Saline Waters

RESEARCH:

Salt Marsh Mollusks
Molluscan Assemblages of Bahamian Inland Blue Holes and Other Saline Waters

INTERESTS:

Ecology of Marine Mollusks

Einstein, Herbert H.

Civil and Environmental Engineering
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Cambridge, MA 02139

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BS ETH, Switzerland
PhD ETH, Switzerland

UPDATED 12/ 1/2000

COURSES:

Engineering Geology
Rock Mechanics
Underground Construction

SPECIALTY:

Rock Fracture Flow
Engineering Geology

RESEARCH:

Rock Fracture Characterization/Modeling
Stochastic Subsurface Characterization and Updating

INTERESTS:

Above Plus Swelling Rock
Tunneling
IT-based education

Ellmore, George S.

Biology

Dana Labs 120

Tufts University

Medford, MA 02155

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PhD

UPDATED 12/ 1/2000

COURSES:

Plant Physiology; Plant Development; Plants and Humanity
Contemporary Environmental Issues Seminar
Experiments in Field Biology

SPECIALTY:

Wetland Vegetation

RESEARCH:

Germination Constraints in Wetland Seeds

INTERESTS:

Purple Loosestrife
Seed Germination
Solarization
High Temperature Limits

Eltahir, Elfatih A.B.

Civil & Environmental Engineering

Room 48-207

Massachusetts Institute of Technology

Cambridge, MA 02139

PHONE: 617 253-6596

FAX NO : 617 253-7462

UPDATED 4/ 8/1996

EMAIL: eltahir@mit.edu

COURSES:

Surface Hydrology

Environmental Data Analysis

SPECIALTY:

Hydrology; hydroclimatology; land-atmosphere-ocean interactions in the tropics; water resources

RESEARCH:

Role of Vegetation in Tropical Climate

Hydroclimatology of the Amazon Basin

Role of Topography in the Distribution of Soil Moisture

ENSO and the Flow in Tropical Rivers

INTERESTS:

Tropics

Climatology

Emel, Jacque (Jody)

PhD University of Arizona

Graduate School of Geography

950 Main Street

Clark University

Worcester, MA 01610

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UPDATED 4/ 8/1996

EMAIL: jemel@clarku.edu

COURSES:

Introduction to Hydrology

Groundwater Resources: Introduction to Science and Management

Resource Geography

Feminism, Nature and Culture

SPECIALTY:

Resource Management Institutions

Sustainable Resource Development

RESEARCH:

Future of the Southern High Plains relative to aquifer depletion

Search for models of sustainable water development, most successful civil society, state relations.

INTERESTS:

Institutional Relationships

Entekhabi, Dara

Civil & Environmental Engineering
Room 48-331

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BA Clark University

MA Clark University

PhD MIT

UPDATED 12/ 1/2000

COURSES:

Hydrology, Land-Atmosphere Interactions

SPECIALTY:

Physical Hydrology

Remote Sensing

Climate Dynamics

Boundary Layer Meteorology

RESEARCH:

Remote Sensing

INTERESTS:

Data Assimilation

Remote Sensing

Ergas, Sarina J.

Civil and Environmental Engineering
18 Marston Hall

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BS Humboldt State University

MS University of California/Davis

PhD University of California/Davis

UPDATED 12/ 1/2000

COURSES:

Air Quality, Groundwater, Biological Phenomena

Environmental Analysis

SPECIALTY:

Biological Air Pollution Control Systems; Bioremediation; Fate and Transport of Pollutants

RESEARCH:

Bioremediation of Contaminated Groundwater; Natural Systems for Wastewater Treatment

INTERESTS:

Solute Transport

Wastewater Treatment

Wetlands

Bioremediation

Fennessey, Neil M.

Civil & Environmental Engineering
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BSc University of Massachusetts
BSE University of Massachusetts
MS MIT
PhD Tufts University

UPDATED 12/ 1/2000

COURSES:

Engineering Fluid Mechanics
Engineering Hydraulics
Hydrology and Water Resources Engineering

SPECIALTY:

Stochastic and Physical Hydrology in the Northeast U.S.
Water Resources Planning and Management Issues in the Northeast U.S.
State and Federal Instream Flow Regulatory Policy
Climate Change and Its Possible Impact Upon the Regional Water Resources of the Northeast U.S.

RESEARCH:

Estimating Daily Streamflow at Ungauged Locations in Northeast U.S.
Regional Models of Free Surface Evaporation and Actual Evapotranspiration for the Northeast U.S.
Possible Impacts to Streamflow and the Boston Metropolitan Water Supply Due to Potential Climate Change.

INTERESTS:

Rainfall-Runoff Models
Hydrologic Models
Climate

Ferrey, Steven

Law
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BA Pomona College
MS University of California/Berkeley
JD University of California/Berkeley

UPDATED 12/ 1/2000

COURSES:

Environmental Law; Advanced Environmental Law; Energy Law; Contracts

SPECIALTY:

Septic and Groundwater Discharge Permitting; Water Withdrawal;
Electric Power Plants; Wetlands;
Hazardous Waste Remediation

RESEARCH:

none

INTERESTS:

none

Finn, John T.

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BS Georgetown University
PhD University of Georgia

UPDATED 12/ 1/2000

COURSES:

Introduction to GIS; Digital Remote Sensing; Ecosystem Modeling

SPECIALTY:

Remote Sensing GIS; Biodiversity Assessment; Ecosystem Modeling

RESEARCH:

Plum Island Sound Comparative Ecosystem Study (PISCES) - an NSF funded Land-Margin Ecosystem Research (LMER) grant to examine the relation between the estuarine food chain and nutrients imported into the bay, i.e. the importance of the biota in transporting nutrients.

INTERESTS:

Remote Sensing

Ecosystems

Model Studies

Geographic Information Systems

Foster, Charles H. W.

John F. Kennedy School of Government
79 JFK Street

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BA Harvard College

BSF University of Michigan

MS University of Michigan

PhD Johns Hopkins

UPDATED 12/ 1/2000

COURSES:

Federal water policy; Wetlands; Northern Forests; Bioregionalism; Federal Natural Resources and Park Planning; Management of Resources as Whole Systems; Quabbin Reservoir; Biosphere Reserves

SPECIALTY:

Water Policy; Forest Hydrology; Wetlands; Coastal Zone; Institutional Regionalism; Northeast Regionalism; Philanthropies; Sense of Place; Natural Resources History.

RESEARCH:

Federal water policy; Wetlands and Wetlands Banking; Restoration of Atlantic salmon; Bioregionalism.

INTERESTS:

Policy Analysis

Wetlands

Gelpke, Richard

Earth & Geographic Sciences
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BA Clark University
MA Clark University
MSL Vermont Law School
PhD Northeastern University

UPDATED 12/ 1/2000

COURSES:

Global Environment (Physical Geography)
Geographic Skills
Resource Management
Historical Environments

SPECIALTY:

Policy and Management
Historical evolution of policy

RESEARCH:

Chapter 91 in Massachusetts (Public Tidelands Act)

INTERESTS:

Policy
Legal aspects of Wetlands

Giblin, Anne E.

Ecosystems Center
7 MBL Street
Marine Biological Laboratory
Woods Hole, MA 02543
PHONE: 508 289-7488 488 FAX NO : 508 457-1548
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BS Rensselaer Polytechnic Inst.
PhD Boston University Marine Program

UPDATED 12/ 1/2000

COURSES:

Aquatic Ecosystems Ecology

SPECIALTY:

Nutrient cycling, Eutrophication, Acid rain

RESEARCH:

Denitrification in lake sediments, Sulfur cycling in lake sediments

INTERESTS:

Nitrogen
Phosphorous
Eutrophication
Sediments

Godfrey, Paul Jeffrey

Dept. of Botany
Morrill Science Center
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 545-6606 FAX NO :
EMAIL: pgodfrey@bio.umass.edu

BS University of Connecticut
PhD Duke University

UPDATED 3/ 17/1996

COURSES:

Coastal plant ecology; Plants and environment; Plant geography; Aquatic vascular plants; Intraecology.

SPECIALTY:

Ecology of barrier beaches, islands, and salt marshes; freshwater plants of New England; Bahamian halophyte ecology

RESEARCH:

Effect of storm surge (overwash) on barrier beach vegetation; barrier beach groundwater; effects of rising sea level on Bahamian vegetation.

INTERESTS:

Plant-Water Relationships
Barrier Beaches

Godfrey, Paul Joseph

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BS Tufts University
MS University of Massachusetts
PhD Cornell University

UPDATED 12/ 1/2000

COURSES:

None at present.

SPECIALTY:

Acid deposition; Eutrophication; Aquatic ecology; Phytoplankton ecology; Limnology, Macroinvertebrate ecology; Lotic ecology; Water chemistry; Database management systems; Multivariate analysis.

RESEARCH:

Supervision of many water resources research projects
Massachusetts Water Watch Partnership and Environmental Analysis Laboratory
Acid Rain Monitoring Project
Lake Management GEIR

INTERESTS:

Acid Deposition
Eutrophication
Algae
Benthos
Lakes

Golomb, Dan S.
Environ., Earth & Atmospheric Sciences

MS Hebrew University
PhD Hebrew University

University of Massachusetts/Lowell
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UPDATED 12/ 1/2000

COURSES:
Air Pollution Phenomenology; Air Resources Management
Energy and Environment; Physical Chemistry for Environmental Sciences

SPECIALTY:
Atmospheric deposition of toxics onto water surfaces
Ocean disposal of CO₂

RESEARCH:
Atmospheric deposition of toxics onto water surfaces
Ocean disposal of CO₂

INTERESTS:
Air Pollution
Air Pollution Control
Atmospheric Deposition
Ocean Disposal

Golubic, Stjepko
Biology
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PhD University of Zagreb, Croatia

UPDATED 12/ 1/2000

COURSES:
Biology of Lakes and Rivers, General Microbiology; Microbial Ecology and Paleoecology, Marine Microphytes

SPECIALTY:
Ecology and Diversity of Cyanobacteria; Microbial Fossils; Stromatolites; Microbial Endoliths

RESEARCH:
Diversity of Marine Cyanobacteria

INTERESTS:
Microbial Ecology
Cyanobacteria
Biosedimentation
Bioerosion

Goodwin, Steve D.

Microbiology

University of Massachusetts/Amherst

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BA University of Maine

MS University of Virginia

PhD University of Wisconsin

UPDATED 12/ 1/2000

COURSES:

Introductory Biology; Microbiology

SPECIALTY:

Ground Water Microbiology; Redox Chemistry; Marine Microbial Mat Communities; Polymers and Sustainable Development

RESEARCH:

Degradation of Water Soluble Polymers

INTERESTS:

Anaerobic Treatment

Microbiology

Polymers

Microbiology

Griffin, Curtice

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MS University of Missouri

PhD University of Missouri

UPDATED 12/ 1/2000

COURSES:

Wetland Wildlife Ecology & Management, Wetlands Assessment and Field Techniques; Conservation Biology, Biodiversity
Wildlife Population Dynamics, Wildlife Management

SPECIALTY:

Animal population biology and ecology, especially rare and endangered species.; Effects of habitat fragmentation and forest
management on bird communities.; Effects of acid rain and landscape characteristics on vernal pool amphibian communities.

Evaluating the risk of oil pollution on seabird population. Assessing the effects of fisheries on seabird populations.

Ecology of salamander and turtle populations.

RESEARCH:

Distribution and habitat use of stream salamanders in riparian zones. Occurrence, movement and behavior of Kemp's ridley
and other sea turtles in Cape Cod Bay. Balancing mosquito control and wetland impacts: assessment, policy analysis, and best
management practices. Inventory and development of monitoring protocols for landbird communities on Cape Cod.

Population status, ecology and transboundary movements of elephants in the Okavango-Upper Zambezi Transfrontier
Conservation Area.; Strategic biodiversity conservation planning in the Housatonic watershed: a landscape ecological
approach.

INTERESTS:

Biodiversity Conservation,

Wetland wildlife ecology and management,

Integrated natural resources management

Gshwend, Philip M.

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BS CA Institute of Technology
PhD Woods Hole Oceanographic Inst.

UPDATED 3/ 18/1996

COURSES:

Environmental organic chemistry; Environment and Technology.

SPECIALTY:

Transport and transformation of organic compounds in aquatic environments.

RESEARCH:

Influence of colloids in groundwater; sediment-bed water exchange of organic chemicals; sorption of organic chemicals.

INTERESTS:

Water Chemistry
Organics
Solute Transport

Guswa, Andrew J.

Civil & Environmental Engineering
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BSE Princeton University
MS Stanford University
PhD Stanford University

UPDATED 12/ 1/2000

COURSES:

Hydrology and Water Resources, Fluid Mechanics, Groundwater Hydrology
Numerical Methods, Engineering Statistics

SPECIALTY:

Numerical Modeling of Subsurface Flow and Transport

RESEARCH:

Efficient Solute Transport Models for Heterogeneous Environments
Interactions between the Stochastic Nature of Rainfall, Soil Moisture Dynamics, and Plant Uptake with the Goal of
Determining how Climate and Soil Characteristics affect Landscape Vegetation;
Exploration of the Feasibility of Deep Injection of Carbon Dioxide into Aquifers and Reservoirs to Reduce Greenhouse Gas
Emissions

INTERESTS:

Groundwater
Modeling
Geologic Heterogeneity
Stochastic Processes

Haas, Peter M.

Political Science
Thompson Hall
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BA University of Michigan
PhD Massachusetts Institute of Technology

UPDATED 12/ 1/2000

COURSES:

International Environmental Politics and Policy; International Environmental Politics

SPECIALTY:

International Policy Coordination
Management of Transboundary and Common Resources
Mediterranean, North Sea, Baltic
United Nations Environment Program
Regional Seas Program
International Institutions

RESEARCH:

Evolution of Multilateral Environmental Protection Efforts from 1972 to present, including marine issues

INTERESTS:

International Cooperation
United Nations
Governance
Regional Seas Management
Coastal Zone Management

Hagar, William G.

Biology
100 Morrissey Blvd.
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WEB: <http://omega.cc.umb.edu/~scied/>

BS Widener University
PhD Temple University

UPDATED 12/ 1/2000

COURSES:

Intro. to Biology; Biochemistry I&II; Biochemistry Lab;
Photobiology; Carbon Dioxide Cycles

SPECIALTY:

Environmental Monitoring: Acid Rain

RESEARCH:

Monitoring changes in water quality due to anthropogenic events. This includes developing monitoring systems to collect hourly pH and temperature profiles of water systems.

INTERESTS:

none

Harleman, Donald R. F.

Civil & Environmental Engineering
Rm 48-317, Ralph M. Parsons Laboratory
Massachusetts Institute of Technology
Cambridge, MA 02139
PHONE: 617 253-2726 FAX NO : 617 258-8850
EMAIL: drfh@mit.edu

BS Pennsylvania State University
MS MIT
ScD MIT

UPDATED 3/ 16/1996

COURSES:

Transport processes in environmental engineering; water quality and eutrophication control;
Wastewater engineering.

SPECIALTY:

Mathematical modeling of fate and transport of pollutants in rivers, reservoirs, lakes, estuaries and coastal waters;
Innovative Wastewater Treatment Processes.

RESEARCH:

Hydrothermal and eutrophication models for Quabbin and Wachusett reservoirs; replacement of coliforms as indicators of public health hazards by DNA detection of genetic material; Physical/Chemical Wastewater Treatment

INTERESTS:

Solute Transport
Wastewater Treatment
Eutrophication

Harvey, Charles

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Cambridge, MA 02139
PHONE: 617 258-0392 FAX NO : 617 258-8850
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PhD Stanford University

UPDATED 12/ 1/2000

COURSES:

Groundwater
Solute Transport
Geostatistics
Water Management

SPECIALTY:

Groundwater; Solute Transport, Geostatistics; Water Management

RESEARCH:

Arsenic Contamination in Bangladesh
Long-term Water Management,
Reactive Transport,
Salt/Fresh Water Interaction

INTERESTS:

Hellquist, Barre C.

Biology
Unit 9168 375 Church Street
Mass. College of Liberal Arts
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BS University of New Hampshire
MS University of New Hampshire
PhD University of New Hampshire

UPDATED 12/ 1/2000

COURSES:

Plant Systematics and Biogeography
Plants and Society (Economic Botany)
Vertebrate Natural History
Aquatic Plants

SPECIALTY:

Ecology and Systematics of Aquatic Plants

RESEARCH:

Studies on Potamogeton clystocarpus of Davis Mts. Texas
Taxonomy of Nymphaea leibergii and N. tetragona in North America
Taxonomy of Australian Nymphaeaceae

INTERESTS:

Potamogetonaceae
Nymphaea
Aquatic Plants
Aquatic Plant Taxonomy

Hemond, Harry F.

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BS Worcester Polytechnic Institute
MA Connecticut College
PhD MIT

UPDATED 12/ 1/2000

COURSES:

Limnology and Wetland Ecology; Chemical Fate and Transport

SPECIALTY:

Wetlands; Limnology; Heavy Metals;
Nitrogen Instrumentation

RESEARCH:

Arsenic Geochemistry; In-situ Chemical Analysis

INTERESTS:

Arsenic
Nitrogen
Methane
Mass Spectrometry

Hil, Malcolm

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100 Meserve Hall
Northeastern University
Boston, MA 02115
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BS Geology
PhD University of California/Santa Cruz

UPDATED 12/ 1/2000

COURSES:

Groundwater Geochemistry
Descriptive Mineralogy

SPECIALTY:

none

RESEARCH:

none

INTERESTS:

none

Hobbie, John E.

Ecosystems Center
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Marine Biological Laboratory
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BA Dartmouth College
MA University of California
PhD Indiana University

UPDATED 12/ 1/2000

COURSES:

none

SPECIALTY:

Fresh water and Coastal microbiology

RESEARCH:

none

INTERESTS:

Coastal microbiology

Holland, Heinrich D.

Earth & Planetary Sciences
Rm. 306 Hoffman Laboratory 20 Oxford St
Harvard University
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BA Princeton University
MA Harvard University
MS Columbia University
PhD Columbia University

UPDATED 12/ 1/2000

COURSES:

Undergraduate : Geochemistry, The Earth, its Resources and the Environment,
Graduate: Chemical Oceanography

SPECIALTY:

Chemistry and chemical evolution of the oceans.

RESEARCH:

History of seawater during the Phanerozoic

INTERESTS:

History of seawater during Phanerozoic
Evolution of atmospheric oxygen

Holmes, Robert M.

Ecosystem Center
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Marine Biological Laboratory
Woods Hole, MA 02543-1015
PHONE: 508 289-7772 FAX NO : 508 457-1548
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B.S. University of Texas
M.S University of Michigan
PhD Arizona State University

UPDATED 12/ 1/2000

COURSES:

SPECIALTY:

Biogeochemistry of stream and estuarine ecosystems, particularly nitrogen cycling; Solute transport by arctic rivers;
Land-watershed interactions; Application of stable isotope techniques in ecosystem studies; Role of hyporheic and riparian
zones in stream ecosystem functioning; Microbial ecology; Comparative ecosystem studies; Analytical methods development.

RESEARCH:

Biogeochemistry of large Arctic rivers, Land-ocean interactions in the Arctic.

INTERESTS:

Biogeochemistry
Arctic rivers
Land-ocean interactions
Stable isotopes
Stream ecology

Hopkinson, Jr., Charles S.

Ecosystems Center

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EMAIL: chopkins@mbl.edu

BS Ursinus College

MS Louisiana State University

PhD Louisiana State University

UPDATED 12/ 1/2000

COURSES:

Aquatic Ecosystems Ecology

SPECIALTY:

C, N and P biogeochemistry in watersheds, estuaries and continental shelf.

RESEARCH:

Origin and fates of DOM along the Middle Atlantic Bight; Ecosystem level measurements of denitrification in estuaries; Integrated ecological-economic modeling of watersheds and estuaries at multiple scales; Controls on nitrogen fluxes from estuarine sediments; The importance of salinity; Plum Island Sound comparative ecosystem study; Effects of changing land cover, climate and sea level on estuarine trophic dynamics; Benthic metabolism and fluxes in Massachusetts Bay and Boston Harbor; Predictions of bioavailability of riverine dissolved organic matter from bulk measures of geochemical composition across landscapes.

INTERESTS:

Watersheds, Dissolved Organic Matter

Estuarine Biogeochemistry

Wetlands, Denitrification

Howes, Brian L.

School of Marine Science & Technology

706 Rodney French Blvd

University of Massachusetts/Dartmouth

New Bedford, MA 02744

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B.A Rutgers University

M.A. Boston University Marine Program

PhD Boston University Marine Program

UPDATED 12/ 1/2000

COURSES:

(Before coming to UMASS); Nitrogen Cycling in Coastal Ecology; Biological Oceanography (team taught)

Monitoring Assessment and Nutrient Management of Coastal Ecosystems

SPECIALTY:

Relationships of Watershed Land-Use to Embayment Habitat Quality

Nutrient Transport and Transformations in groundwater, wetlands, and coastal waters

Wetland Restoration; Embayment Nutrient Remediation; Coastal Ecosystem Management

RESEARCH:

Coastal nutrient related water quality linkages of watersheds to embayment health; Biological and physical manipulations for wetland restoration; Nitrogen and Phosphorous Transport and Transformations in ground and surface waters and wetlands
Factors controlling nutrient retention and productivity of wetlands

INTERESTS:

Coastal Ecology

Wetlands

Biogeochemistry

Hughes, Jeff

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EMAIL: jhughes@mbl.edu

BA Boston University

MS University of Washington

PhD University of Rhode Island

UPDATED 12/ 1/2000

COURSES:

Introduction to Oceanography; Stable Isotopes in food web research; Trophic Dynamics; Eutrophication
Health of Coastal Ecosystems

SPECIALTY:

Benthic Ecology; Stable Isotopes in Food Webs; Eelgrass-fish Dynamics

RESEARCH:

Development and Application of Indices of Biotic Integrity Using Estuarine Fish Assemblages

INTERESTS:

Indices of Biotic Integrity

Estuarine Ecology

Fish Community Structure, Shallow water Recruitment

Jackson, Scott

Natural Resources Conservation

Holdsworth Hall

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BS Allegheny College

MS University of Massachusetts/Amherst

UPDATED 12/ 1/2000

COURSES:

Wetlands Assessment and Field Techniques

SPECIALTY:

Wetlands; Vernal Pools;

Wildlife Ecology & Habitat Evaluation

RESEARCH:

none

INTERESTS:

Vernal pools

Wetlands

Wildlife Habitat

Instream Flow

Jacobsen, Stein B.

Earth and Planetary Sciences
20 Oxford St.

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B.S. University of Oslo, Norway

M.S. University of Oslo, Norway

PhD California Institute of Technology

UPDATED 12/ 1/2000

COURSES:

Isotope and trace element geochemistry and geochronology
Geochemical Thermodynamics;
The Chemical Evolution of the Earth; Planetary Materials and Geochemistry;
Environmental Geology and Earth Resources; Geochemical kinetics and mass transport.

SPECIALTY:

Isotopic variations in river waters;
Global elemental river fluxes

RESEARCH:

Sr and Os isotope variations in rivers and ground waters of Bengal plain

INTERESTS:

Origin of the solar system
Early Planetary Differentiation
Mantle and Crust Evolution
Earth Systems Evolution

Jahoda, John C.

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Bridgewater State College
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BA University of Connecticut

PhD Oklahoma State University

UPDATED 12/ 1/2000

COURSES:

Ecology, Marine biology, Comparative Chordate Anatomy,
Vernal Pool Biology, Marine Mammal Biology,
Evolution, General Biology

SPECIALTY:

Marine Biology, Vernal Pool Biology,
Ecology, Wildlife Biology

RESEARCH:

Ecology of Vernal Pool Ecosystems

INTERESTS:

Vertebrate Ecology

Jones, Gwilym S.
Biology
Center for Vertebrate Studies

BA Hanover College
MS Purdue University
PhD Indiana State University

Northeastern University
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UPDATED 12/ 1/2000

COURSES:
Mammalogy
Ornithology
Wildlife Biology
Vertebrate Zoology

SPECIALTY:
Aquatic Mammal, Bird, Amphibian, and Freshwater Fish Ecology

RESEARCH:
Biology of Mink, Muskrat, Seals, Mute Swan, Mallard, American Black Duck

INTERESTS:
none

Juanes, Francis
Natural Resources Conservation
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EMAIL: juanes@forwild.umass.edu

BS McGill University
MS Simon Fraser University
PhD SUNY Stony Brook

UPDATED 12/ 1/2000

COURSES:
Fish Ecology
Fisheries Management
Trophic Dynamics

SPECIALTY:
Aquatic Ecology; Fisheries Ecology

RESEARCH:
Salmon Life History and Ecology in S. New England
Sturgeon Population Dynamics; Predator-prey Dynamics in Striped Bass and Bluefish in Estuaries

INTERESTS:
Predator-prey Interactions
Behavioral Ecology
Ecology of Piscivorous Fishes
Mate Choice in Fishes
Essential Fish Habitat

Keimig, Frank

Geosciences

University of Massachusetts/Amherst

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PHONE: 413 545-0659 FAX NO : 413 545-1200

EMAIL: frank@geo.umass.edu

BS St. Peter's College
MS University of Notre Dame
MS Rutgers

UPDATED 12/ 1/2000

COURSES:

Climatology

SPECIALTY:

Climatology; Climatic change.

RESEARCH:

Circulation and Precipitation Variability in the High Arctic

INTERESTS:

Climate Variability

Climate Change

Paleoclimate

Arctic Climate

Kenny, Jonathan E.

Chemistry

62 Talbot Ave.

Tufts University

Medford, MA 02155

PHONE: 617 627-3397 FAX NO : 617 627-3443

EMAIL: jkenny@tufts.edu

B.S. University of Notre Dame
Sc.M University of Chicago
Ph.D University of Chicago

UPDATED 12/ 1/2000

COURSES:

Physical Chemistry

Environmental Chemistry

Nature and Culture in New England (American Studies)

SPECIALTY:

Development of instrumentation for the detection of contaminants in soil and water, based on laser-induced fluorescence and Raman spectroscopy.

RESEARCH:

Development of instrumentation for the detection of contaminants in soil and water, based on laser-induced fluorescence and Raman spectroscopy.

INTERESTS:

Fluorescence

Photophysics

Molecular spectroscopy

Vibrational analysis

Kerr, Peter

Environmental Analysis Laboratory

University of Massachusetts/Amherst

Amherst, MA 01003-0820

PHONE: 413 545-2936 FAX NO : 413 545-4490

EMAIL: pkerr@chem.umass.edu

BSc Dalhousie University
MS University of Massachusetts
PhD University of Massachusetts

UPDATED 12/1/2000

COURSES:

none

SPECIALTY:

Analytical Water Chemistry

RESEARCH:

Aluminum speciation in natural water systems;
Analytical methods development for natural waters.

INTERESTS:

Water Chemistry

Analytical Methods Development

Khanna, Sat D.

Civil & Environmental Engineering

285 Old Westport Road

University of Massachusetts/Dartmouth

North Dartmouth, MA 02747-2300

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EMAIL: skhanna@umassd.edu

BSc India
MSc India
MA University of Connecticut
PhD University of Connecticut

UPDATED 12/ 1/2000

COURSES:

Hydrology; Hydraulic Engineering; Hydroelectric Power; Flood Control; Dam Design and Safety; Soil Mechanics

SPECIALTY:

Small-scale Hydropower; Dam Design and Safety; Watershed Management;
Non-point Source Pollution; Urban Water Resources Management

RESEARCH:

Small-scale Hydropower Development;
Dam Safety; Drainage; Contaminants

INTERESTS:

Hydraulics

Hydrology

Groundwater

Detention Basins

Kineke, Gail C.

322 Devlin Hall, 140 Commonwealth Ave.
Boston College
Chestnut Hill, MA 02467-3809
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BA Princeton University
PhD University of Washington

UPDATED 12/ 1/2000

COURSES:

Coastal Processes
Oceanography
Marine Geology
Estuarine Processes

SPECIALTY:

Marine Sediment Transport
Coastal Oceanography and Estuarine Processes

RESEARCH:

Marine Fine-grained Sediment Transport
Estuarine Processes

INTERESTS:

Sediment Transport
Coastal and Estuarine Processes

Kirshen, Paul

Civil and Environmental Engineering
Anderson Hall
Tufts University
Medford, MA 02155
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WEB:

BS Brown University
MS MIT
PhD MIT
CEE MIT

UPDATED 12/ 1/2000

COURSES:

Integrated Water Resources Assessment & Planning

SPECIALTY:

Integrated Assessment
Hydrology
Climate Change; Systems; Planning
International and Global Issues

RESEARCH:

Impacts of Climate Change on Water Resources

INTERESTS:

Integrated Assessment
Hydrology
Climate Change
Systems
Planning

Klar, Jr, Lawrence R.

Dept. of Hotel, Restaurant & Travel Administration
210 Flint Hall
University of Massachusetts/Amherst
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BA San Jose State University
MS San Jose State University
PhD Oregon State University

UPDATED 12/ 1/2000

COURSES:

None reported at present.

SPECIALTY:

Outdoor recreation management; Public attitudes; Multiple use of reservoirs for drinking water and recreation.

RESEARCH:

Public attitudes toward the recreational use of drinking water reservoirs; Willingness to pay; Outdoor recreational use patterns in Massachusetts; Recreation travel patterns.

INTERESTS:

Recreation

Klekowski, Edward

Dept. of Botany
Morrill Science Center
University of Massachusetts/Amherst
Amherst, MA 01003
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BS University of North Carolina
MS University of North Carolina
PhD University of California

UPDATED 12/ 1/2000

COURSES:

Introductory Genetics;
Genetics and Evolution;
Plant Morphology

SPECIALTY:

Conducting underwater exploration of the Connecticut River.

RESEARCH:

Conducting underwater exploration of the Connecticut River.

INTERESTS:

Mutagenesis
Bioassay

Kostecki, Paul T.

Environmental Health Sciences
N344 Morrill
University of Massachusetts/ Amherst
Amherst, MA 01003
PHONE: 413 545-4610 FAX : 413 545-4692
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BS University of Massachusetts
MS University of Michigan
PhD University of Michigan

UPDATED 12/1/2000

COURSES:

BIO 101 Honors seminar - Assessment of Contaminated Sites

SPECIALTY:

Fish Physiology
Ecological Risk Assessment

RESEARCH:

none

INTERESTS:

Human Risk Assessment
Ecological Risk Assessment
Soil Contamination
Aquatic Toxicology

Krimsky, Sheldon

UEP
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BS Brooklyn College
MS Purdue University
MA Boston University
PhD Boston University

UPDATED 12/ 1/2000

COURSES:

Chemicals, Health and the Environment
Science-based Policy
Political Economy, Ethics and the Environment
Foundations of Public Policy
Environmental Ethics
Social Management of Risk

SPECIALTY:

none

RESEARCH:

none

INTERESTS:

Social Dimensions of Risk
Biotechnology
Bioethics
Endocrine Disruptors

Kynard, Boyd E.

Forestry & Wildlife Mgmt / Conte Fish Lab
Holdsworth Hall
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 863-9475 807 FAX NO :
EMAIL: kynard@forwild.umass.edu

BS Millsaps College
MS Mississippi State University
PhD University of Washington

UPDATED 12/ 1/2000

COURSES:

none at present

SPECIALTY:

Anadromous fisheries restoration; Behavioral ecology of fish; Reproductive biology of fish;
Fish passage at dams; Water conditions created by dams, pumped storage, etc.

RESEARCH:

Anadromous fishery restoration; Behavioral ecology of fish; Reproductive biology of fish;
Fish passage at dams; Conditions created by dams.

INTERESTS:

Fisheries
Anadromous Fish

Lanza, Guy R.

Environmental Sciences Program
312 Stockbridge Hall
University of Massachusetts/Amherst
Amherst, MA 01003-9246
PHONE: 413 545-4945 FAX NO : 413 545-4860
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WEB: <http://www.umass.edu/envsci>

B.S. Fairleigh Dickinson University
MS University of Kentucky
PhD Virginia Polytechnic Institute

UPDATED 12/ 1/2000

COURSES:

Environmental Microbiology

SPECIALTY:

Aquatic Ecotoxicology
Aquatic Ecology
Bioremediation/ Phytoremediation
Ecology of Waterborne Infectious Disease

RESEARCH:

Bioremediation/ phytoremediation of contaminated water and soils.

INTERESTS:

Aquatic Ecotoxicology
Aquatic Ecology/ Microbial Ecology
Bioremediation/ Phytoremediation
Ecology of Waterborne Infectious Disease

Leckie, R. Mark

Geosciences

University of Massachusetts/Amherst

Amherst, MA 01003

PHONE: 413 545-1948 FAX NO : 413 545-1200

EMAIL: mleckie@goe.umass.edu

WEB:

BS Northern Illinois University

MS Northern Illinois University

PhD University of Colorado

UPDATED 12/ 1/2000

COURSES:

Introductory Oceanography; History of the Earth; Paleoceanography; Marine Geology

Marine Micropaleontology

SPECIALTY:

Micropaleontology; Planktic and Benthic Foraminifera (testate protists)

Marine Geology & Paleoceanography

RESEARCH:

Mid-Cretaceous Oceanic Anoxic Events

Cretaceous Age and Oligocene-Miocene Age Paleoceanography

INTERESTS:

Ancient Ocean Climate History

Plankton Evolution

Leonard, Thomas J.

Biology

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Clark University

Worcester, MA 01610

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A.B Clark University

Ph.D. Indiana University

UPDATED 12/ 1/2000

COURSES:

Intro to Biology

Genetics

Immunology

Plant Biology

Mycology

Microbiology

SPECIALTY:

Aquatic fungi

RESEARCH:

none

INTERESTS:

Developmental genetics in fungi

Levine, Stephen H.

Civil and Environmental Engineering
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WEB:

AB,ScB Brown
MS Brown
PhD Brown

UPDATED 12/ 1/2000

COURSES:

Engineering Systems: Stochastic Models

SPECIALTY:

none

RESEARCH:

none

INTERESTS:

Mathematical models
Computer simulation
Environmental systems
Industrial ecology

Long, Sharon C.

Civil and Environmental Engineering
18 Marston Hall
University of Massachusetts/Amherst
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BS University of Massachusetts
MS University of North Carolina
PhD University of North Carolina

UPDATED 12/ 1/2000

COURSES:

Environmental Engineering Analysis
Hazardous Waste Management
Solid Waste Management
Bioremediation

SPECIALTY:

Biological Phenomenon in Engineered Systems

RESEARCH:

none

INTERESTS:

Hazardous Waste

Lovley, Derek R.

Microbiology
Morrill Science Center IV
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 545-9651 FAX NO : 413 545-1578
EMAIL: dlovley@microbio.umass.edu

PhD Michigan State University

UPDATED 3/18/1996

COURSES:

Microbial Ecology

SPECIALTY:

Microbiology and geochemistry of aquatic sediments;
Microbiology and geochemistry of groundwater

RESEARCH:

Bioremediation of petroleum-contaminated aquifers
Bioremediation of heavy metals
Uranium bioremediation
Bioremediation of chlorinated solvents
Effect of humic substances on microbial metabolism

INTERESTS:

Microbiology
Groundwater Bioremediation
Bioremediation

Maass, Arthur

Professor of government, Emeritus
G-7 Littaner
Harvard University
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AB John Hopkins University
MPA Harvard University
PhD Harvard University

UPDATED: 12/1/2000

COURSES:

NONE

SPECIALTY:

System Analysis; Law, government and policy; Land use in arid regions.

RESEARCH:

Land speculation in the economic and political development of arid regions.

INTERESTS:

Mabee, Stephen B.

Geosciences
Morrill Science Center
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PHONE: 413 545-4814 FAX NO : 413 545-1200
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BS Tufts University
MS University of Colorado
PhD University of Massachusetts

UPDATED 12/ 1/2000

COURSES:

Applied Environmental Geology
Hydrogeology; Advanced Hydrogeology
Introduction to Field Geology; Hydrogeology Seminar

SPECIALTY:

Groundwater Resource Evaluation
Groundwater Flow; Geochemistry; Geophysics

RESEARCH:

Groundwater Resource Evaluation in Bedrock
Water Resources in Ancient Cultures

INTERESTS:

Groundwater Resource Evaluation
Applied Geophysics
Hydrogeological Education
Water Resources of Ancient Cultures

Madsen, Ole S.

Civil & Environmental Engineering
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Cambridge, MA 02139
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MS Technical Univ. of Denmark
ScD MIT

UPDATED 12/ 1/2000

COURSES:

Fluid Mechanics; Introduction to Coastal Engineering; Sediment Transport and Coastal Processes

SPECIALTY:

Turbulent Bottom Boundary Layers; Sediment Transport in the Coastal Environment;
Longshore Currents and Sediment Transport; Free Surface Flows

RESEARCH:

Combined Wave-Current Boundary Layer Flows above a Movable Bed;
Longshore Sediment Transport in the Surf Zone

INTERESTS:

Fluid Mechanics
Coastal Processes
Sediment Transport
Coastal Engineering

Maroney, Michael
Chemistry

BS Iowa State
PhD University of Washington

701 Lederle Graduate Research Tower
University of Massachusetts/Amherst
Amherst, MA 01003-9336
PHONE: 413 545-4876 FAX NO : 413 545-4490
EMAIL: MMaroney@chem.umass.edu

UPDATED 12/ 1/2000

COURSES:
Inorganic Chemistry
Metals in Biology

SPECIALTY:
Metallobiochemistry Associated with Bacteria
Inorganic Chemistry in Aqueous Systems

RESEARCH:
none

INTERESTS:

Martin, Scot
Div. of Engineering & Applied Sciences
Pierce Hall, 29 Oxford Street
Harvard University
Cambridge, MA 02138
PHONE: 617 495-7620 FAX NO : 617 495-9837
EMAIL: smartin@deas.harvard.edu

BS Georgetown
PhD California Technological University

UPDATED 12/ 1/2000

COURSES:
Aquatic Chemistry
Environmental Chemical Kinetics
Environmental Surface Chemistry

SPECIALTY:
none

RESEARCH:
none

INTERESTS:
Mineral Dissolution
Surface Chemistry
Organic Ligands
Water Chemistry

Mathisen, Paul P.

Civil and Environmental Engineering
100 Institute Road
Worcester Polytechnic Institute
Worcester, MA 01609
PHONE: 508 831-5343 FAX NO : 508 831-5808
EMAIL: mathisen@wpi.edu
WEB: www.wpi.edu/~mathisen

BS University of Massachusetts
MS MIT
PhD MIT

UPDATED 12/ 1/2000

COURSES:

Hydraulics; Hydrology; Geohydrology; Groundwater Flow and Pollution
Multiphase Contaminant Transport; Hydrology
Stream, Lake & Estuarine Analysis; Water Resources

SPECIALTY:

Exchanges between Ground Water and Surface Water
Boundary Layer Flows; Sediment

RESEARCH:

Numerical Modeling of Exchanges between Ground Water and Surface Water
Remobilization of Metals in the Blackstone River
Experiments and CFD Modeling to Characterize Flow Near Pump Intakes

INTERESTS:

Contaminant Transport
Ground Water Flow
Benthic Boundary Layer Flow
Ground Water/Surface Water Exchanges
Sediments

McElroy, Michael B.

Division of Engineering & Applied Sciences
100E Pierce Hall, 29 Oxford Street
Harvard University
Cambridge, MA 02138
PHONE: 617 495-4359 FAX NO : 617 495-4551
EMAIL: mbm@io.harvard.edu

BS Queen's University (Belfast)
PhD Queen's University

UPDATED 12/ 1/2000

COURSES:

None at present

SPECIALTY:

none

RESEARCH:

none at present

INTERESTS:

Origin and Evolution of the Planets
Human Activity on the Global Environment

McLaren, J. Philip

Biology Department
23 Eastern Elm Avenue
Eastern Nazarene College
Quincy, MA 02170
PHONE: 617 745-3554 FAX NO : 617 745-3905
EMAIL: mclarenp@enc.edu
WEB: www.easternnazarenecollege.edu

AB Bethel College
MA Western Michigan University
PhD Western Michigan University

UPDATED 12/ 1/2000

COURSES:

General Biology; General Ecology;
Marine Biology; Oceanography;
Earth Science; Invertebrate Zoology

SPECIALTY:

Fisheries Biology; Coastal Processes;
Tropical Marine Ecology; Teaching of Marine Science

RESEARCH:

Tropical Reef Ecology; Echinoderm Pathology;
Fisheries Management Biology.

INTERESTS:

Tropical Reef Ecology
Fisheries Management Biology
Science Education
Teacher Preparation
Marine Ecology

Mei, Chiang C.

Civil & Environmental Engineering
Rm 48-413 77 Mass. Ave
Massachusetts Institute of Technology
Cambridge, MA 02139
PHONE: 617 253-2994 FAX NO : 617 253-6300
EMAIL: ccmei@mit.edu

BS National Taiwan University
MS Stanford University
PhD California Inst. of Technology

UPDATED 12/ 1/2000

COURSES:

Math Methods in Engineering
Advanced Environmental Fluid Mechanics; Wave Propagation; Surface Wave Hydrodynamics

SPECIALTY:

fluid mechanics; applied mathematics

RESEARCH:

Air Sparging ; Ground subsidence due to pumping for ground water; Water Wave Theory; Seabed mechanics

INTERESTS:

Fluid Mechanics
Ground water
Coastal Oceanography

Mitchell, Ralph

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EMAIL: mitchell@deas.harvard.edu
WEB: www.deas.harvard.edu

BA Trinity College
MS Cornell University
PhD Cornell University

UPDATED 12/ 1/2000

COURSES:

Introduction to Environmental Microbiology

SPECIALTY:

Effects of pollutants on deterioration of materials

RESEARCH:

Effects of pollutants on deterioration of materials

INTERESTS:

Microbiology
Materials deterioration
Microbiology

Monosson, Emily

Center for Environmental Literacy
Talcott Greenhouse
Mount Holyoke College
South Hadley MA 01075
PHONE: 413 538-3091 FAX NO : 413 367-0052
EMAIL: emonoss@mtholyoke.edu

BS Union College
PhD Cornell University

UPDATED 12/ 1/2000

COURSES:

Water in Life,
Literature and Art
Environmental Contaminants

SPECIALTY:

PCBs, Organo-chlorine contaminants,
Effects of contaminants on fish,
Endocrine disruptors.

RESEARCH:

PCBs, DDT

INTERESTS:

Interdisciplinary Approaches
Environmental Problems

Moomaw, William R.

The Fletcher School of Law and Diplomacy
International Env. & Resource Policy
Tufts University
Medford, MA 02155
PHONE: 617 627-2732 FAX NO : 617 627-3712
EMAIL: william.moomaw@tufts.edu

BA Williams College
PhD MIT

UPDATED 12/ 1/2000

COURSES:

Elements of International Policy
Environmental Negotiations
Energy and Environment

SPECIALTY:

Water and Climate Change

RESEARCH:

Water and Climate Change

INTERESTS:

Climate Change
Water Demand

Mullin, John R.

LARP, Center for Economic Development
109 Hills North
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 545-6636 FAX NO : 413 545-1772
EMAIL: j.mullin@dpc.umassp.edu

BA University of Massachusetts
MCP University of Rhode Island
MSB Boston University
PhD University of Waterloo

UPDATED 12/ 1/2000

COURSES:

Tools and Techniques of Planning
Industrial Development
Planning Studio

SPECIALTY:

Waterfront Development
Revitalization of Mills Along Rivers

RESEARCH:

Land-use Along Waterfronts
Setbacks from Streams
The Tensions Between Water-based Industry and Water-based Tourism

INTERESTS:

Planning

Murcott, Susan

Environmental Engineering
Parsons Lab 48-108

Massachusetts Institute of Technology

Cambridge, MA 02139

PHONE: 781 631-1161 FAX NO : 617 631-1161

EMAIL: murcott@mit.edu

WEB: www.mit.edu/people/Murcott ; www.sustainableliving.org

BA Wellesley

BS MIT

MS MIT

UPDATED 12/ 1/2000

COURSES:

Advises masters students in Environmental Engineering.

SPECIALTY:

Drinking water; Wastewater Treatment with a focus on the developing world.

RESEARCH:

Small scale drinking water treatment systems in Nepal and Haiti.

Use of chemically enhanced wastewater treatment system in municipalities.

Consulting firm Ecosystems Engineering dealing with water and sanitation in developing countries.

INTERESTS:

Drinking water treatment

Wastewater treatment

Developing countries

Murphy, James J.

Resource Economics

University of Massachusetts/Amherst

Amherst, MA 01003

PHONE: 413 545-5716 FAX NO : 413 545-5853

EMAIL: murphy@resecon.umass.edu

WEB: www.umass.edu/resec/fac+staff/murphy

BA Villanova University

MS University of California/Davis

PhD University of California/Davis

UPDATED 12/ 1/2000

COURSES:

Public Finance, Experimental Economics

Applied Microeconomic Analysis

SPECIALTY:

Water Markets and Market Design

RESEARCH:

Design of Computer-coordinated Water Markets

INTERESTS:

Environmental Economics

Experimental Economics

Water Markets

Marketable Pollution Permits

Market Design

Nepf, Heidi M.

Civil & Environmental Engineering
48-423

Massachusetts Institute of Technology
Cambridge, MA 02139

PHONE: 617 253-8622 FAX NO : 617 258-8850

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WEB: www.mit.edu/neph/www

BS Bucknell University

MS Stanford University

PhD Stanford University

UPDATED 12/ 1/2000

COURSES:

Environmental Fluid Mechanics

Physical Limnology

Environmental Transport

Environmental Transport Lab

SPECIALTY:

Physical mechanisms that affect the transport and fate of contaminants and nutrients in lakes, wetlands, and coastal waters

Vegetated flow hydrodynamics

RESEARCH:

Physical mechanisms that affect the transport and fate of contaminants and nutrients in lakes, wetlands, and coastal waters

Vegetated flow hydrodynamics

INTERESTS:

Fluid Mechanics

Newton, Robert M.

Dept. of Geology

Burton Hall

Smith College

Northampton, MA 01060

PHONE: 413 585-3946 FAX NO : 413 585-3786

EMAIL: rnewton@science.smith.edu

BA University of New Hampshire

MA SUNY-Binghamton

PhD University of Massachusetts

UPDATED 12/ 1/2000

COURSES:

Groundwater geology

Geomorphology

Introduction to Earth Processes and History

SPECIALTY:

Groundwater Hydrology;

Surface water Hydrology;

Aqueous geochemistry

RESEARCH:

Mercury contamination in fish from remote Adirondack Lakes. Hydrogeology of the Ossipee Aquifer, NH.

INTERESTS:

Groundwater Hydrology

Aqueous Geochemistry

O'Brien, Arnold L.

Earth Sciences Department
Olney Science Center
University of Massachusetts/Lowell
Lowell, MA 01854
PHONE: 978 934-3902 FAX NO : 978 934-3069
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WEB: www.uml.edu/Dept/EFAS

AB Syracuse University
MS Syracuse University
PhD Boston University

UPDATED 12/ 1/2000

COURSES:

Hydrogeology; Regional Hydrology;
Geomorphology; Glacial & Pleistocene Geology;

SPECIALTY:

Hydrology of wetlands

RESEARCH:

None at present

INTERESTS:

Hydrology
Wetlands
Groundwater
Vadose Zone

O'Connor, Nancy J.

Biology/ School Marine Science & Technology
285 Old Westport Rd.
University of Massachusetts/Dartmouth
North Dartmouth, MA 02747
PHONE: 508 999-8217 FAX NO : 508 999-8196
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B.S SE Massachusetts University
M.S. University of Delaware
Ph.D. North Carolina State University

UPDATED 12/ 1/2000

COURSES:

General Ecology
Marine Benthic Ecology; Estuarine Ecology
Biology of Marine Larvae

SPECIALTY:

Non-indigenous marine species, Recruitment of marine crabs

RESEARCH:

Effects of Asian crab on resident crab species in New England
Food web effects of the Asian crab in coastal ecosystems
Cues stimulating settlement and molting of crab larvae

INTERESTS:

Effects of Asian crab on resident crab species
Food web effects
Non-indigenous marine species
Recruitment of marine crabs

Ojadi, Emmanuel

Chemistry and Biochemistry
285 Old Westport Road
University of Massachusetts/Dartmouth
North Dartmouth, MA 02747
PHONE: 508 999-8252 FAX NO : 508 999-9167
EMAIL: eojadi@umassd.edu

BSc University of Ife, Nigeria
MS Brandeis University
PhD Brandeis University

UPDATED 12/ 1/2000

COURSES:

Physical Chemistry; Photochemistry

SPECIALTY:

Photochemistry in the Oceans
Vestigial Porphyrins in Aquatic Systems

RESEARCH:

none

INTERESTS:

Porphyrins
Laser Spectroscopy
Polymers
Non-linear Optics
Remote Sensing

Orians, Colin

Biology
120 Dana Building, Dept. of Biology
Tufts University
Medford, MA 02155
PHONE: 617 627-3543 FAX NO : 617 627-3805
EMAIL: corians@tufts.edu
WEB: <http://ase.tufts.edu/biology/faculty/bios/orians.html>

PhD Penn State University

UPDATED 12/ 1/2000

COURSES:

Ecology; Experiments in Field Biology;
Tropical Biology
Conservation Biology (Williams College)
Evolution (Williams College)

SPECIALTY:

I am well-equipped to analyze numerous plant chemical traits.

RESEARCH:

A grad student and I are examining the effects of water and nutrient availability to the growth chemistry and susceptibility of a wetland shrubs to herbivores.

INTERESTS:

Plant-herbivore interactions
Plant defense strategies
Plant responses to environmental heterogeneity
Plant ecology

Pechenik, Jan A.

Biology Department

Tufts University

Medford, MA 02155

PHONE: 617 381-3199

FAX NO :

EMAIL: jpecheni@tufts.edu

BA Duke University

MS MIT Oceanographic Institute

PhD University of Rhode Island

UPDATED 3/ 2/1990

COURSES:

Marine biology; Topics in Comparative Animal Physiology; The Dynamics of Animal Populations.

SPECIALTY:

Marine invertebrate reproductive biology.

RESEARCH:

Adaptive significance of encapsulating structures; Larval energetics and the capacity for delay of metamorphosis; Effects of Number 2 fuel oil on reproduction and development of prosobranch gastropods and marine crustaceans.

INTERESTS:

Invertebrates

Marine Ecology

Platt, Rutherford H.

Geosciences

232 Morrill Science Center

University of Massachusetts/Amherst

Amherst, MA 01003

PHONE: 413 545-2499

FAX NO : 413 545-1200

EMAIL: platt@geo.umass.edu

BS Yale University

JD University of Chicago

PhD University of Chicago

UPDATED 12/ 1/2000

COURSES:

Several

SPECIALTY:

Policy and Law regarding Floods,

Coastal Management,

Wetlands,

Urban Water Supply

RESEARCH:

Ecological Cities Program <www.umass.edu/ecologicalcities/>

INTERESTS:

Flood Plain Management

Law

Water Resources Management

Coastal Management

Urban Water Supply

Plummer, Jeanine D.

Civil & Environmental Engineering
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BS Cornell University
MS University of Massachusetts/Amherst
PhD University of Massachusetts/Amherst

UPDATED 12/ 1/2000

COURSES:

Water Treatment; Water Chemistry
Environmental Engineering Laboratory

SPECIALTY:

Physical and Chemical Drinking Water Treatment Processes
Water Quality

RESEARCH:

Algae in Drinking Water Supplies
Effect of Ozonation on Disinfection Byproduct Formation

INTERESTS:

none

Pokras, Mark A.

Environment & Population Health
200 Westboro Rd.
Tufts University Veterinary Medicine
N. Grafton, MA 01536-1895
PHONE: 508 839-7918 FAX NO : 508 839-7930
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BS Cornell University
DVM Tufts University

UPDATED 12/ 1/2000

COURSES:

Wildlife Medicine

SPECIALTY:

Wildlife Disease; Wildlife Toxicology; Aquatic Bird, Reptile & Amphibian Biology

RESEARCH:

Mortality Factors in New England Common Loons; Causes of Amphibian Declines & Deformities
Lead and Mercury in Aquatic Ecosystems

INTERESTS:

Birds
Disease
Toxicology
Anthropogenic Effects

Polz, Martin

Civil & Environmental Engineering
MIT 48-421

Massachusetts Institute of Technology
Cambridge, MA 02139

PHONE: 617 253-7128 FAX NO : 617 258-8850

EMAIL: mpolz@mit.edu

WEB: web.mit.edu/polz

PhD Harvard University

UPDATED 12/ 1/2000

COURSES:

Environmental Modeling; Environmental Chemistry and Microbiology; Bioremediation

SPECIALTY:

Analysis of Microbial Community Structure and Population Dynamics using Molecular Tools;

Correlation of Microbial Physiology/Activity with Biogeochemical Measures

Development of Sensitive and Accurate Molecular Tools for Detection and Quantification of Pathogens in the Environment
(includes quantitative PCR and DNA microarray technology)

RESEARCH:

Influence of Microorganisms on Arsenic Cycling in the Environment;

Interaction of Microorganisms with Actinides;

Development of QPCR and DNA Microarray Technology ;

Monitoring of Pathogens in the Marine Environment.

INTERESTS:

Microbiology

Pathogens

Molecular Tools

PCR

DNA

Portney, Kent E.

Political Science

Eaton Hall

Tufts University

Medford, MA 02155

PHONE: 617 627-3465 FAX NO : 617 627-3660

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BA Rutgers University

MA University of Connecticut

PhD Florida State University

UPDATED 12/ 1/2000

COURSES:

Judicial Politics; Environmental Politics; Politics of Sustainable Communities

Research Methods in Politics and Policy; Public Opinion and Survey Research

SPECIALTY:

none

RESEARCH:

Survey of Residents in the Mystic River Watershed

INTERESTS:

Sustainable Cities

Industrial Facility Siting

Environmental Justice

Randhir, Timothy

Natural Resources Conservation
Rm. 320, Holdsworth Hall
University of Massachusetts/Amherst
Amherst, MA 01003

PHONE: 413 545-3969 FAX NO : 413 545-3943

EMAIL: randhir@forwild.umass.edu

MS TNA University, India
PhD Purdue University

UPDATED 12/ 1/2000

COURSES:

Watershed Science and Management; Watershed Science Lab; Coastal Watersheds: Problem Solving
Watershed Management: Online Course

SPECIALTY:

Water Quality Modeling; Watershed Modeling and Analysis; Water Resources Policy
Ecological Economics; Watershed Management; Agricultural NPS Pollution
Landscape Dynamics; Urban NPS Pollution; Large-scale Assessment of Pollutant Transfer and Impacts
Community-based Planning; Natural Resources Decision-support Systems

RESEARCH:

Sustainable Resources Planning; Urban Stormwater Management;
Watershed Prioritization; Biodiversity and Water Resources;
Water Supply Assessment; Watershed Imperviousness

INTERESTS:

Watershed Management
Ecological Economics
Water Resources Planning
Natural Resources Policy & Management.

Reckhow, David A.

Dept. of Civil & Environmental Engineering
Marston Hall
University of Massachusetts/Amherst
Amherst, MA 01003

PHONE: 413 545-5392 FAX NO : 413 545-2202

EMAIL: reckhow@ecs.umass.edu

BS Tufts University
MS Stanford University
PhD University of North Carolina

UPDATED 12/ 1/2000

COURSES:

Water Chemistry, Environmental Engineering Analysis II,
Basic Environmental Engineering.

SPECIALTY:

Drinking Water

RESEARCH:

Characterization and fate of natural aquatic organic matter; Oxidation processes in drinking water and wastewater treatment;
Formation of disinfection byproducts.

INTERESTS:

Drinking Water
Disinfection Byproducts
Humic Substances

Reed, J. Michael

Biology

PhD North Carolina State University

Tufts University

Medford, MA 02155

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FAX NO : 617 627-3805

UPDATED 12/ 1/2000

EMAIL: mreed@tufts.edu

COURSES:

Non-majors Environmental Biology

Conservation Biology

SPECIALTY:

Waterbird Habitat Use and Conservation

RESEARCH:

Impacts of Upland Habitat Use on Vernal Pool Breeding Amphibians

INTERESTS:

Population Persistence

Conservation

Forestry

Birds

Robbat, Jr., Albert

Chemistry

62 Talbot Avenue

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BS University of Massachusetts/Boston

PhD Pennsylvania State University

EMAIL: arobbat@tufts.edu

WEB: ase.tufts.edu/chemistry/robbat/

UPDATED 12/ 1/2000

COURSES:

Analytical Chemistry

SPECIALTY:

Environmental Chemistry

RESEARCH:

Investigation of Hazardous Waste Sites;

In situ Sensors and Electronic Noise Detection of Water Contaminants

INTERESTS:

Water Chemistry

Organic Compounds

Robinson, William E.

Environmental Sciences Program
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BA Boston University
MS Northeastern University
PhD Northeastern University

UPDATED 12/ 1/2000

COURSES:

Aquatic Toxicology, Environmental Toxicology,
Current Issues in Toxicology, Environmental Physiology

SPECIALTY:

Marine Monitoring with Biomarkers, Metal Transport in the Blood of Marine Bivalve Molluscs,
Metal-binding Proteins, Aquatic Toxicology

RESEARCH:

Cadmium Transport in the Blood of Marine Mussels and Quahogs Bound to Histidine-rich Glycoprotein

INTERESTS:

Marine Monitoring with Biomarkers
Metal Transport
Marine Bivalves
Metal-binding Proteins

Rogers , Peter Philip

Division of Engineering & Applied Sciences
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BE Liverpool University
MS Northeastern University
PhD Harvard University

UPDATED 12/ 1/2000

COURSES:

Introduction to Environmental Engineering; Environmental Assessment
Water Resources Systems

SPECIALTY:

Systems Analysis; Water Policy; Water Pricing
Rural Water Supply and Sanitation

RESEARCH:

Two Village Studies in India; Integrated Water Resources Management for the GWP

INTERESTS:

Resources
Policy
Pricing
Sanitation
Integrated Water Resources Management

Rosen, Peter S.

Department of Geology
14 Holmes Hall
Northeastern University
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BA Potsdam College
MS University of Massachusetts
PhD College of William and Mary

UPDATED 12/ 1/2000

COURSES:

Environmental Planning
Sedimentation
Coastal Processes; Marine Geology

SPECIALTY:

Coastal Processes

RESEARCH:

Barrier Beach Management Conflicts; Boston Harbor Erosion

INTERESTS:

Coastal Processes
Beach Erosion
Coastal Wetlands
Environmental Planning

Ross, Michael R.

Natural Resources Conservation
Holdsworth Hall

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Amherst, MA 01003

PHONE: 413 545-2940 FAX NO : 413 545-4358

EMAIL: mross@forwild.umass.edu

BS Miami University
MS Ohio State University
PhD Ohio State University

UPDATED 12/ 1/2000

COURSES:

Fisheries Conservation and Management; Fish Ecology; Advanced Fisheries Management

SPECIALTY:

Fisheries Management; Fish Population Dynamics

RESEARCH:

Population Dynamics, Life History and Habitat Relationships of Aquatic Organisms (brook trout, freshwater mussels, Atlantic halibut)

INTERESTS:

Fisheries
Population Dynamics
Life Histories

Ryan, David K.

Chemistry

1 University Avenue

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BS LeMoyne College

PhD University of New Hampshire

UPDATED 12/ 1/2000

COURSES:Environmental Chemistry; Marine Chemistry; Marine Geochemistry; Advanced Physical Chemistry
Quantitative Analysis; Instrumental Analysis; Advanced Analytical Chemistry**SPECIALTY:**Humic Materials; Metal Bioaccumulation by Marine Bivalves; Speciation of Metals in Aquatic Systems
Analytical Method Development for Environmental Applications**RESEARCH:**Atmospheric Deposition of Metals; Speciation of Metals in Aquatic Systems
Humic Material Fluorescence & NMR Spectroscopy; Binding of Inorganic & Organic Contaminants to Humic Materials
Marine Mussel Metal Accumulation**INTERESTS:**

Humic Materials

Heavy Metals

Water Quality

Fluorescence

Schaumloffel, John C.

Chemistry & Biology

285 Old Westport Road

University of Massachusetts/Dartmouth

North Dartmouth, MA 02747

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EMAIL: jschaumloffel@umassd.edu

BA Castleton State College

MS Washington State University

PhD Washington State University

UPDATED 12/ 1/2000

COURSES:Analytical Chemistry; Instrumental Analysis; Nuclear and Radiochemical Methods
Aquatic Environmental Chemistry; Atmospheric/Terrestrial Environmental Chemistry**SPECIALTY:**Development of Novel-extraction Methods for Organic Contaminants. Biological Monitoring and Toxicity of Metals in
Aquatic Systems. Cycling of Trace Elements in Aquatic Systems**RESEARCH:**Teratogenicity of Heavy Metals to Larval Chironomids; Development of Solid-phase MicroExtraction (SPME)
Methods for the Determination of Agricultural Chemicals in Runoff
Development of Novel Solid-phase Sampling and Remediation Devices for Organic Contaminants in Aquatic Environments**INTERESTS:**

Metals

Organics

Biological Monitoring

Toxicity

Extraction

Schoen, Jerry

Water Resources Research Center
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BA University of California/Berkeley
MS Antioch/New England

UPDATED 12/ 1/2000

COURSES:

none

SPECIALTY:

Volunteer Water Quality Monitoring

RESEARCH:

none

INTERESTS:

Volunteer Water Quality Monitoring

Segall, Burton A.

Civil Engineering
College of Engineering
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BS Polytechnic Inst. of Brooklyn
MS University of North Carolina
MPH University of North Carolina
PhD NYU

UPDATED 12/ 1/2000

COURSES:

Fluid mechanics; Environmental Chemistry; Dynamics
Grad. - Physical and Chemical Treatment Processes;
Computer Hydraulics and Hydrology

SPECIALTY:

Water and wastewater treatment

RESEARCH:

none at present

INTERESTS:

Fluid Mechanics
Wastewater Treatment
Groundwater
Hydrology; Septage

Sengupta, Sukulyan
Civil & Environmental Engineering

MS Lehigh University
Ph.D Lehigh University

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UPDATED 12/ 1/2000

COURSES:

Intro to Environmental Engineering;
Water Treatment; Wastewater Treatment;
Advanced Treatment Processes in Environmental Engineering;
Hazardous Waste Management

SPECIALTY:

Adsorption (activated carbon, lignocellulosics, etc.) for removal of trace concentration of organic compounds from water supplies ; Ion-exchange for removal of heavy metals and other ions, nitrate, ammonium, phosphate, etc., from industrial and municipal aqueous-phase solutions

RESEARCH:

Activated alumina for advanced treatment (phosphorous removal) of wastewater Electro-Membrane-Partitioning for nutrient removal of wastewater followed by fertilizer extraction

INTERESTS:

Adsorption
Ion- exchange
Nutrient removal

Shiaris, Michael P.

Biology
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BS University of Maryland
MS Colorado State University
PhD University of Tennessee

UPDATED 12/ 1/2000

COURSES:

Microbial Ecology; Microbial Physiology; Coastal Ecology
Microbiology; Biotechnology

SPECIALTY:

Microbial Ecology; Bacterial Biodiversity; Biodegradation; Indicators of Disease

RESEARCH:

Biodiversity of Sediment Bacteria; DNA Fingerprinting of Coliform Bacteria

INTERESTS:

Coastal Sediments
Microbial Ecology
Biodegradation of Aromatic Hydrocarbons
Coliforms

Shultz, Mary Jane

Chemistry

62 Talbot Ave.

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EMAIL: mshultz1@tufts.edu

BS University of Wisconsin/Madison

PhD MIT

UPDATED 12/ 1/2000

COURSES:

Introduction to Chemistry; Physical Chemistry; Environmental Chemistry

SPECIALTY:

Water Interfaces: liquid/air, liquid/liquid (organic), solid/liquid (semiconductors, metal, ice)

RESEARCH:

Interaction of water with a variety of surfaces using optical nonlinear spectroscopy, including atmospheric chemistry, corrosion, adhesion and friction

INTERESTS:

Water

Corrosion

Aerosols

Oxidations

Surfaces

Simkins, Stephen

Plant and Soil Sciences

Stockbridge Hall

University of Massachusetts/Amherst

Amherst, MA 01003

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FAX NO : 413 545-3958

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WEB: <http://www.umass.edu/plsoils/resume/simkins.html>

BA Harvard

MS Cornell

PhD Cornell

UPDATED 12/ 1/2000

COURSES:

PLSOIL 105 (Intro to Soils)

PLSOIL 515 (Soil Microbiology)

PLSOILS 5970 (Organic Contaminants in Soils, Groundwater , and Sediments)

ENVSCI 101 (Intro. to Environmental Bio)

ENVSCI 315 (Principles of Environ. Toxicology. and Chem. - last third only)

SPECIALTY:

Biodegradation kinetics

Sorption of hydrophobic contaminants to humic substances

RESEARCH:

Sorption of hydrophobic compounds to synthetic model humic substances

INTERESTS:

Biodegradation kinetics

Sorption

Humic substances

Stavropoulos, Pericles

Chemistry

590 Commonwealth Avenue

Boston University

Boston, MA 02215

PHONE: 617 353-2496 FAX NO : 617 353-6466

EMAIL: stavro@chem.bu.edu

PhD Imperial College, UK

UPDATED 12/ 1/2000

COURSES:

General Chemistry; Inorganic Chemistry

Advanced Inorganic Chemistry; Organometallics

SPECIALTY:

none

RESEARCH:

Remediation of Chlorinated Hydrocarbons by Oxidative Treatment

INTERESTS:

Remediation

Iron Chemistry

Oxygenation Processes

Stevens, Thomas H.

Resource Economics

216 Stockbridge Hall

University of Massachusetts/Amherst

Amherst, MA 01003

PHONE: 413 545-5714 FAX NO : 413 545-5853

EMAIL: tstevens@resecon.umass.edu

WEB: www.umass.edu/resec/

BS Cornell University

MS University of Delaware

PhD Cornell University

UPDATED 12/ 1/2000

COURSES:

Benefit/Cost Analysis

Environmental and Resource Economics

SPECIALTY:

Valuation of Natural Resources

Benefit-cost Analysis.

RESEARCH:

Economic Valuation of Groundwater Quality Policy Options

INTERESTS:

Economics

Benefit-Cost Analysis

Stevenson, Robert D.

Biology
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Boston, MA 02125-3393
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WEB: www.bio.umb.edu/WhosWho/Faculty/swifty_cv.html

BS Tufts University
MS University of Washington
PhD University of Washington

UPDATED 12/ 1/2000

COURSES:

Conservation Biology;
Entomology
Comparative Physiology

SPECIALTY:

none

RESEARCH:

VP for the Parker River Clean Water Association;
Biodiversity of Stream Invertebrates

INTERESTS:

Conservation Biology
Biodiversity
Ecoinformatics
Conservation Physiology
Environmental Education

Sturdevant Rees, Paula L.

Civil & Environmental Engineering
18 Marston Hall
University of Massachusetts/Amherst
Amherst, MA 01003-5205
PHONE: 413 577-2337 FAX NO : 413 545-2202
EMAIL: rees@ecs.umass.edu

BS University of Iowa
PhD Princeton University

UPDATED 12/ 1/2000

COURSES:

Water Resources Engineering; Hydrology; Surface Water Quality Modeling

SPECIALTY:

Sediment and nutrient transport; Event-based transport
Runoff production; Water quality modeling

RESEARCH:

Event-based transport of Cryptosporidium and Giardia in rivers

INTERESTS:

Sediment Transport
Water Quality
Extreme Floods
Urban Hydrology

Swan, Christopher

Civil and Environmental Engineering
113 Anderson Hall
Tufts University
Medford, MA 02155
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EMAIL: cswan@tufts.edu

BS University of Texas, Austin
MS University of Texas, Austin
ScD MIT

UPDATED 12/ 1/2000

COURSES:

Groundwater Hydrology
Site Remediation Techniques

SPECIALTY:

Groundwater flow
Contaminated groundwater treatment

RESEARCH:

none

INTERESTS:

Waste reuse as construction material
Brownfield redevelopment
Engineering properties and behavior of soils

Swartwout, Dennis J.

Earth Science Information Office
Blaisdell House
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 545-0359 FAX NO : 413 545-2304
EMAIL: esic@tei.umass.edu
WEB: www.umass.edu/tei/esio

BS University of Massachusetts/Amherst
MS University of Massachusetts/Amherst

UPDATED 12/ 1/2000

COURSES:

Aerial Photogrammetry
Introduction to Map Reading

SPECIALTY:

none

RESEARCH:

none

INTERESTS:

Wetlands
Aerial Photography
Topographic
Orthophotography
GIS

Switzenbaum, Michael S.

Dept. of Civil & Environmental Engineering
Marston Hall
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 545-5393 FAX NO : 413 545-2202
EMAIL: switzenbaum@ecs.umass.edu

BA Johns Hopkins University
MS Cornell University
PhD Cornell University

UPDATED 12/ 1/2000

COURSES:

Environmental Engineering Principles
Water and Wastewater Treatment
Biological Processes
Design of Environmental Facilities

SPECIALTY:

Wastewater engineering.; Solid waste management.

RESEARCH:

Biosolids Management
Airport Deicing Wastewater Management.

INTERESTS:

Wastewater Treatment
Sludge Management
Biosolids Management

Terkla, David

Economics and ECO
100 Morrissey Blvd.
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BA Williams College
MA University of California/Berkeley
PhD University of California/Berkeley

UPDATED 12/ 1/2000

COURSES:

Environmental Economics
Marine Resource Economics

SPECIALTY:

Marine Fisheries Economics
Water-dependent Uses and Waterfront Planning
Economics of Watershed Management

RESEARCH:

none

INTERESTS:

Public Access to Beaches
Regional Economic Development
Regional Sustainability
Watershed Management

Thomas, Craig W.

Political Science
308 Thompson Hall
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 577-0688 FAX NO : 413 545-3349
EMAIL: cthomas@polsci.umass.edu

MPP Berkeley
PhD Berkeley

UPDATED 12/ 1/2000

COURSES:

Environmental Policy
Public Management
Public Administration
Public Policy

SPECIALTY:

Institutional designs for watershed management

RESEARCH:

none

INTERESTS:

Interagency cooperation
Institutional design
Biodiversity

Tobiason, John E.

Civil & Environmental Engineering
18 Marston Hall
University of Massachusetts/Amherst
Amherst, MA 01003
PHONE: 413 545-5397 FAX NO : 413 545-2202
EMAIL: tobiason@ecs.umass.edu

BS University of New Hampshire
MS University of North Carolina
PhD Johns Hopkins University

UPDATED 12/ 1/2000

COURSES:

Environmental Engineering Principles ; Hydraulics; Water Supply and Wastewater Collection System Design
Physical and Chemical Treatment Processes; Environmental Engineering Design; Processes at Particle/Water Interface

SPECIALTY:

Drinking Water Supply Engineering
Drinking Water Treatment, especially Filtration, Coagulation and other Solid/liquid Separation Processes
Fate & Transport in Natural and Engineered Systems

RESEARCH:

Impacts of Filter Backwash Recycle on Treatment Performance
Water Quality in MDC Reservoirs: Modeling & Natural Organic Matter Characterization
Water Treatment Improvements: Optimal Coagulation and Dissolved Air Flotation

INTERESTS:

Drinking Water Supply and Treatment
Water Filtration
Particles in Water

Tyler, Jeffrey A.

Biology and Biotechnology
100 Institute Road

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Worcester, MA 01609

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BS Davidson College

PhD SUNY Albany

UPDATED 12/ 1/2000

COURSES:

Computational Biology; Population and Community Ecology
Advanced Environmental Simulation Modeling; Environmental Biology

SPECIALTY:

Fish Population Ecology and Modeling; Fish Behavior

RESEARCH:

Modeling fish population responses to environmental change (dam regulated)

INTERESTS:

Individual-based Models

Aquatic Ecosystem Dynamics

Water Quality Effects on Fish

Tyson, Julian F.

Chemistry

701 Lederle Graduate Research Tower

University of Massachusetts/Amherst

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PHONE: 413 545-0195 FAX NO : 413 545-4846

EMAIL: tyson@chem.umass.edu

BSc University of Aberdeen

PhD University of London

UPDATED 12/ 1/2000

COURSES:

Chem 312 : Analytical Chem for non-Chem majors ; Chem 513 :Instrumental analysis

Chem 515 :Principles of Analytical Processes

Grad courses: Flow Injection Analysis; Spectrometry; Electroanalytical chemistry

SPECIALTY:

Chemical analysis; Trace element speciation

RESEARCH:

Research interests in developing new and improved analytical methods for trace elements and associated organometallic compounds in environmental samples.

Methodology involves coupling separation and pre-concentration with atomic spectrometry measurement. Techniques used include HPLC, solid-phase extraction, chemical vapor generation, atomic absorption spectrometry, atomic fluorescence spectrometry and atomic mass spectrometry (plasma ionization).

Analytes include arsenic, selenium, mercury, lead, cadmium, chromium, aluminum.

Matrices include tap, river, pond, and sea water.

INTERESTS:

Chemical analysis

Trace element determinations

Speciation

Non-point pollution

Biogeochemical transformations

Uden, Peter C.

Chemistry

Lederle Grad Res. Tower A 701

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PHONE: 413 545-2293 FAX NO : 413 545-4490

EMAIL: pcuden@chem.umass.edu

BSc University of Bristol UK

PhD University of Bristol UK

UPDATED 12/ 1/2000

COURSES:

Analytical Chemistry; Instrumental Analysis; Chemical Separations; Applied Analytical Chemistry.

SPECIALTY:

Trace Analysis and Speciation of Organics and Inorganics;
Chromatographic Methods; Drinking Water

RESEARCH:

Determination of Arsenic and Selenium Speciation in Water;
Determination of Bromide and Iodide in Drinking Water

INTERESTS:

Water Chemistry
Organic Compounds
Haloforms;
Humic Substances

Vachet, Richard W.

Chemistry

701 Lederle GRT

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Amherst, MA 01003-9336

PHONE: 413 545-2733 FAX NO : 413 545-4490

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WEB: www.chem.umass.edu/Vachet/vachet.html

BS College of William & Mary

PhD University of North Carolina

UPDATED 12/ 1/2000

COURSES:

Instrumental Analysis
Bioanalytical Chemistry

SPECIALTY:

Trace metal-ligand complexes in marine environments

RESEARCH:

Determination of trace metal-ligand complexes in marine environments

INTERESTS:

Trace Metals
Phytoplankton and trace metals
Analytical Chemistry
Copper

Valiela, Ivan

Boston University Marine Program

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Marine Biological Laboratory

Woods Hole, MA 02543

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BS Rutgers University

PhD Cornell University

UPDATED 12/ 1/2000

COURSES:

Marine Ecology; Marine Pollution

SPECIALTY:

Nitrogen; Eutrophication; Salt Marshes;

Coastal Bays; Coastal Land Use;

Coastal Food Webs; Sewage; Groundwater

RESEARCH:

Structure and function of salt marshes;

Decomposition in salt marshes-eutrophication;

Pollutants-heavy metals; Land use;

Management of water resources.

INTERESTS:

Nitrogen

Eutrophication

Salt Marshes

Coastal Bays

Coastal Land Use/Food Webs

Veneman, Peter L.M.

Dept. of Plant and Soil Sciences

19 Stockbridge Hall

University of Massachusetts/Amherst

Amherst, MA 01003

PHONE: 413 545-5215 FAX NO : 413 545-3958

EMAIL: veneman@pssci.umass.edu

BS Wageningen Agricultural Univ.

MS Univ. of Wisconsin-Madison

PhD Univ. of Wisconsin-Madison

UPDATED 12/ 1/2000

COURSES:

Soil Formation; Wetland Delineation; Hydric Soils; Soil and Water Conservation ;

Introductory Soil Science; Soils and Land Use

SPECIALTY:

Geochemistry and Formation of Wet Soils; On-site Sewage Treatment and Disposal

RESEARCH:

Landscape-based Geochemistry in Glaciated Regions; Relating Vegetation, Soils, and Hydrology to Geochemical

Characteristics; Mapping of Wetlands and Potential Wetland Restoration Using Remote Sensing Characterization of Hydric

Soils

INTERESTS:

Hydric Soils

Wetlands

Soil Formation

Site Suitability Assessment

Voelker, Bettina

Civil & Environmental Engineering
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BS MIT
MS MIT
PhD ETH Zurich, Switzerland

UPDATED 12/ 1/2000

COURSES:

Aquatic Chemistry

SPECIALTY:

Speciation, Fate and Transport of Trace Elements in Aquatic Systems

RESEARCH:

Iron and Copper Photo-Redox Chemistry in Surface Waters.
Metal Binding Properties of Humic Substances

INTERESTS:

Water Chemistry
Trace Metals

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Civil and Environmental Engineering
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BS University of Virginia
MS University of Virginia
PhD Cornell University

UPDATED 12/ 1/2000

COURSES:

Hydrology and Water Resources Engineering;
River Hydraulics; Environmental Statistics;
Water Resources Systems

SPECIALTY:

Hydrology; Environmental Statistics

RESEARCH:

Watershed Modeling; Regional Hydrology; Floods and Droughts;
Water Quality Load Estimation; Water Quality Network Design
Impact of Climate Change on Water Resources
Decision Support Systems for Water Supply

INTERESTS:

Hydrology
Environmental Statistics
Floods and Droughts
Water Supply
Water Quality Statistics

Walk, Marie-Françoise

Water Resources Research Center
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BS Auburn University
MS Pennsylvania State University

UPDATED 12/ 1/2000

COURSES:

Forest Hydrology

SPECIALTY:

Data Presentation Techniques of Scientific Data by Citizen Volunteers
Watershed Management for Resource Conservation

RESEARCH:

Acid Rain Effects on Surface Waters
Citizen Volunteer Monitoring of Lakes and Streams
Urban Runoff

INTERESTS:

Watershed Management
Acid Deposition
Storm Water Management
Citizen Monitoring

Walt, David R.

Chemistry
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BS University of Michigan
PhD SUNY at Stony Brook

UPDATED 12/ 1/2000

COURSES:

Biochemistry; Chemistry

SPECIALTY:

Sensors; Biosensors; Immunoassays

RESEARCH:

Sensors
Biosensors

INTERESTS:

Optical Sensors
Arrays
Geosensors
Artificial Noises

Wang, Xuchen

Environmental, Coastal, and Ocean Sciences
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PhD. State University of New York

UPDATED 12/ 1/2000

COURSES:

none

SPECIALTY:

Marine and Environmental Organic Geochemistry; Carbon Isotope Geochemistry

RESEARCH:

Sources and cycling of organic carbon in estuary and ocean.
Polycyclic aromatic hydrocarbons in coastal marine sediments
Oil and gas seepage in the ocean and their influence on sedimentary and dissolved organic carbon pools.

INTERESTS:

Carbon isotopes
Carbon cycling
Organic compounds in ocean
Marine sediments
Environmental chemistry

Wei, Irvine W.

Civil & Environmental Engineering
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MS Harvard University
Ph.D. Harvard University

UPDATED 12/ 1/2000

COURSES:

Environmental Chemistry; Environmental Laboratory; Environmental Biological Processes
Water and Wastewater Treatment; Advanced Wastewater Treatment & Industrial Waste Processes
Environmental Engineering

SPECIALTY:

Water Chemistry; Chlorination & Ozonation of Water; Advanced Oxidation Processes

RESEARCH:

Chlorination & Ozonation of Water
Arsenic in Groundwater & Its Removal
Sensing and Imaging of Water Quality

INTERESTS:

Chlorination & Ozonation of Water
Arsenic in Groundwater & Removal
Sensing & Imaging in Water Quality

Wiggin, Jack

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B.A. Fairfield University
M.S. Boston State College

UPDATED 12/ 1/2000

COURSES:

Coastal Zone Management; Boston Harbor and the Islands

SPECIALTY:

Watershed Planning and Management; Land Use Planning
Coastal Resource Management

RESEARCH:

none

INTERESTS:

Watershed Planning and Management
Land Use Planning
Coastal Resource Management

Wilson, Richard

Physics

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MA Harvard University
PhD Oxford University

UPDATED 12/ 1/2000

COURSES:

none

SPECIALTY:

Risk Analysis

RESEARCH:

Risks of Chemicals

INTERESTS:

Risk Analysis

Xing, Baoshan

Plant & Soil Sciences

Stockbridge Hall

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MS University of Alberta

PhD University of Alberta

UPDATED 12/ 1/2000

COURSES:

Environmental Soil Chemistry;

Inorganic Contaminants in Soil,

Water and Sediment

Advanced Soil Chemistry

SPECIALTY:

Organic Chemicals in Water and Soil

RESEARCH:

Phytoremediation

Sorption of Organic Chemicals by Soil

INTERESTS:

Soil Chemistry

Phytoremediation

Sorption of Organics by Soil

Characterization of Organic Matter

Yuretich, Richard F.

Dept. of Geosciences

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BA New York University

MA Princeton University

PhD Princeton University

UPDATED 12/ 1/2000

COURSES:

Introductory Oceanography; Introductory Field Geology; Introduction to Geochemistry

Aqueous and Environmental Geochemistry

SPECIALTY:

Geochemistry of Lakes; Composition of Surface and Ground Waters

Chemical Equilibria and Water Composition; Saline Waters

RESEARCH:

Paleochemistry of Lake Baikal, Siberia; Climate Change

Water Budgets and Sedimentation in Rogers-Rosamond Playa, CA

INTERESTS:

Natural Waters

Geochemistry

Weathering and Water Chemistry

Paleoenvironmental Analysis

Zabel, Jeff

Economics

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PhD University of California, San Diego

UPDATED 12/ 1/2000

COURSES:

Graduate and Undergraduate;

Statistics and Econometrics,

Environmental Economics

Labor Economics

SPECIALTY:

none

RESEARCH:

none

INTERESTS:

Valuation of environmental resources

Environmental risk

Housing economics

Welfare programs

Zajicek, O.Tom

Chemistry

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BS Baldwin-Wallace College

MS Wayne State University

PhD Wayne State University

UPDATED 12/ 1/2000

COURSES:

General Chemistry;

Advanced Inorganic Chemistry

SPECIALTY:

Chemistry in Natural Waters;

Corrosion of Domestic Plumbing Materials

Trace Metal Transport

RESEARCH:

none

INTERESTS:

Acid Deposition

Water Chemistry

Zuo, Yuegang

Chemistry & Biochemistry

285 Old Westport Road

University of Massachusetts/Dartmouth

North Dartmouth, MA 02747

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BS Wuhan University, China

MS Chinese Academy of Science, China

PhD EAWAG-ETHZ, Switzerland

UPDATED 12/ 1/2000

COURSES:

Analytical Chemistry; Instrumental Analysis;

Environmental Chemistry;

Chemical Separation

SPECIALTY:

Sources, transformation and fate of pollutants in natural water environments

Wastewater treatment; Pollutant monitoring; Marine & freshwater photochemistry

RESEARCH:

Sources, transformation and fate of pollutants in natural water environments;

Wastewater treatment; Pollutant monitoring; Marine & freshwater photochemistry;

Acid rain formation mechanisms;

Photochemical and microbial degradation of dissolved organic matter in fresh and coastal waters;

Photochemical and microbial decomposition of petroleum hydrocarbons in surface waters

Using chitin extracted from wasteshell to clarify potable and polluted water.

INTERESTS:

Acid Precipitation

Atmospheric Water

Coastal Water

Fresh Water

Photochemistry