

Special Publication

**1996 DIRECTORY
of
WATER RESOURCES EXPERTISE
in
MASSACHUSETTS COLLEGES
and
UNIVERSITIES**

**DIRECTORY OF WATER RESOURCES EXPERTISE IN
MASSACHUSETTS COLLEGES AND UNIVERSITIES
1996**

by

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The Massachusetts Water Resources Research Center
University of Massachusetts
Amherst, Massachusetts 01003-0820**

August 1996

INTRODUCTION

This is the fourth edition of the Directory. A concerted effort has been made to make the Directory as comprehensive and up-to-date as possible. However, this always seems to be an elusive ideal. Listing is voluntary; researchers not listed or with incorrect listings are encouraged to complete the blank form at the back of the Directory and return it to the Water Resources Research Center. We will incorporate that information in future listings.

New in this edition is a comprehensive index to key words and phrases. It should help identify experts based on their own descriptions of their work.

This database serves as the principal vehicle for contacting researchers about research opportunities and selecting appropriate peer reviewers for Center proposals and reports. Copies are also provided to state and regional environmental agencies.

Since the last edition in 1990, the Internet and the World Wide Web have hit full force. Although, the Directory continues to be printed, the enormous potential of electronic communication has not been ignored. The 1990 Directory listings were among the first few listings of expertise on UWIN, the University Water Information Network. This edition of the database has replaced the earlier listing. UWIN also contains a database of all publication citations resulting from 10 years of research support by the 54 water resources research institutes, job announcements, and connections to many other sources of water information. UWIN may be accessed at <http://www.uwin.siu.edu/>. Additional information may be accessed from the National Institutes for Water Resources (NIWR) at <http://wrri.nmsu.edu/niwr/>. The Massachusetts Water Resources Research Center has several world wide web pages under construction which should be available soon. It is our intention to provide access to the Directory as a database that can be searched using key words. The Center's home page may be accessed at <http://www.umass.edu/tei/wrrc>.

This publication is part of an ongoing attempt by the Water Resources Research Center to encourage information exchange. The Center wishes to acknowledge the efforts of Dr. John Cole, Milcah Roden, and Nicole Michaud. The work upon which this publication is based was partially supported by the United States Department of the Interior, Geological Survey through the Institute Program grant to the Center. Additional support was provided by the University of Massachusetts Environmental Institute. Contents of the publication do not necessarily reflect the views of the United States Department of Interior nor the University of Massachusetts, nor does mention of trade names or commercial products constitute their endorsement by these institutions.

Directory of Water Resources Expertise

Adams, E. Eric

Dept. of Civil & Environmental Engineering
MIT 48-325

Massachusetts Institute of Technology

Cambridge, MA 02139

Telephone: (617) 253-6595

FAX: (617) 258-8850

Last update: 10/ 6/95

E-mail: eeadams@mit.edu

BS Harvey Mudd College

PhD MIT

Courses Taught:

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

Water-related Specialties

Environmental Fluid Mechanics

Physical and Mathematical Models of Pollutant Transport and Mixing

Water-related Current Research

Fluorescent Tracer Studies of Particle Transport and Deposition

Random Walk Models of Coastal and Estuarine Transport

Interfacing Near- and Far-Field Models of 3D Water Quality

Development of a Watershed Model for the Charles River Basin

Environmental Impacts of the Direct Release of CO₂ to the Ocean



Ahern, Jack F.

Landscape Arch. & Regional Planning

Hills North

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-6632

FAX: (413) 545-1772

Last update: 3/19/96

E-mail: jfa@larp.umass.edu

BS University of Massachusetts

MS University of Pennsylvania

Courses Taught:

Landscape Pattern and Process

Landscape Planning Studio

Water-related Specialties

Landscape Planning; Landscape Ecology; Ecosystem Management; Ecological Restoration.

Water-related Current Research

Water Resources Management Plan for the Cape Cod National Seashore

Connecticut River Task Force to Promote Regional Planning for Ecosystem Management

Chicopee River Study to Integrate Ecosystem Management Principles.

Directory of Water Resources Expertise

Alexander, David E.

Dept. of Geosciences
269c Morrill
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-2095
E-mail: davida@geo.umass.edu

BSc London School of Economics
PhD University College - London

FAX: (413) 545-1200

Last update: 3/ 1/90

Courses Taught:

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

Water-related Specialties

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

Water-related Current Research

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



Allen, P. Geoffrey

Dept. of Resource Economics
229 Draper Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-5715
E-mail: allen@resecon.umass.edu

PhD Univ. of California-Davis

FAX: (413) 545-5853

Last update: 3/25/96

Courses Taught:

None reported at present.

Water-related Specialties

None at present

Water-related Current Research

Forecasting and Time-series Analysis, especially probabilistic forecasting

Directory of Water Resources Expertise

Amarasiriwarden, Dulasiri D.

School of Natural Science

Hampshire College

Amherst, MA 01002

Telephone: (413) 582-5561

FAX: (413) 582-5448

Last update: 3/18/96

E-mail: dula@hamp.hampshire.edu

BS University of Colombo

MPh University of Sri Lanka

PhD No. Carolina State University

Courses Taught:

Environmental chemistry; general chemistry; Instrumentation and analytical chemistry.

Pollution and Our Environment.

Water-related Specialties

Trace Metal Analysis; Inductively-coupled Plasma Emission/Mass Spectrometry; Analytical Method Development for Trace Metals in Environmental Analysis

Water-related Current Research

Heavy metals speciation studies; preconcentration and removal mechanisms in fresh water systems.



Anderson, Neal W.

Dept. of Biology

Fitchburg State College

Fitchburg, MA 01420

Telephone: (508) 665-3617

FAX: (508) 665-3578

Last update:/19/96

E-mail: anderson@fsc.edu

BS University of Utah

MS University of Utah

PhD Cornell University

Courses Taught:

Wetland boundary delineation; plant taxonomy; plant identification.

Water-related Specialties

Wetland boundary delineation; wetland issues.

Using Wetlands in Education

Water-related Current Research

Sulfur biogeochemistry in peatlands.

Directory of Water Resources Expertise

Baker, R. Lisle

41 Temple Street
Suffolk University Law School

Boston, MA 02114

Telephone: (617) 573-8186

FAX: (617) 723-5872

Last update: 3/16/96

E-mail: lbaker@acad.suffolk.edu

AB Williams College

LLB Harvard University Law School

Courses Taught:

Environmental law; land use control; property; law practice management; mediation.

Water-related Specialties

Open space conservation financing techniques.

Water-related Current Research

Common law liability for environmental harm.



Baram, Michael S.

Center for Law & Technology
765 Commonwealth Ave., Rm. 866

Boston University Law School

Boston, MA 02118

Telephone: (617) 353-5294

FAX: (617) 353-3077

Last update: 3/20/96

E-mail:

BS Tufts University

LLB Columbia Law School

Courses Taught:

Environmental Law (Federal and State Regulations, Tort Liability)

Advanced Environmental Law (Protection of Natural Resources)

Corporate Management of Environmental Risks

Water-related Specialties

Environmental Risk Law and Management

Corporate Risk Management

Social Control of Chemical Risks

Water-related Current Research

Use of Wastewater and Sludge for Agriculture and Land Restoration.

Watershed Management and Restoration

Directory of Water Resources Expertise

Barker, Allen V.

Dept. of Plant & Soil Sciences
Bowditch Hall
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-9294
E-mail: barker@pssci.umass.edu

FAX: (413) 545-0260

BS Univ. of Illinois
MS Cornell University
PhD Cornell University

Last update: 3/19/96

Courses Taught:

Plant Nutrition
Organic Farming & Gardening
Hydroponics

Water-related Specialties

Plant Nutrition
Compost Utilization
Ground Cover and Sods

Water-related Current Research

Nitrate in Groundwater



Barry, Eugene F.

Chemistry Department
Olney Science Building
University of Massachusetts/Lowell
Lowell, MA 01854

Telephone: (508) 934-3650
E-mail:

FAX: (508) 934-3013

BS Villanova University
PhD University of Rhode Island

Last update: 3/ 1/90

Courses Taught:

Environmental chemistry.

Water-related Specialties

Water quality monitoring by gas chromatography; high pressure chromatography; atomic absorption spectroscopy.

Water-related Current Research

Determination of trace organic contaminants in ground and drinking water; analysis of landfill leachates.

Directory of Water Resources Expertise

Beale, Arthur

BA Brandeis University

Objects Conservation and Scientific Res.

465 Huntington Avenue

Museum of Fine Arts, Boston

Boston, MA 02115-5597

Telephone: (617) 369-3466 466 FAX: (617) 267-0280

Last update: 3/16/96

E-mail:

Courses Taught:

The Scientific Examination and Preservation of Works of Art

Water-related Specialties

The Conservation of Works of Art

Water-related Current Research

Testing coating materials and corrosion inhibitors on outdoor bronzes in the presence of acid deposition.



Binford, Michael W.

BS Kansas State University

Landscape Architecture

MS Louisiana State University

48 Quincy Street

PhD Indiana University

Harvard University

Cambridge, MA 02138

Telephone: (617) 495-1203 FAX: (617) 495-5015

Last update: 3/19/96

E-mail: mbinford@gsd.harvard.edu

Courses Taught:

Hydrology

Ecology & Restoration of Streams, Lakes and Wetlands

Site Ecology

Terrain Analysis

Water-related Specialties

Tropical Limnology

Watershed-scale Limnology

Water-related Current Research

Land-water interactions

Land use - water quality in lakes, streams & wetlands

Paleolimnology

Land use influences on lakes in eastern and central Massachusetts

Directory of Water Resources Expertise

Booke, Henry E.

S.O. Conte Anadromous Fish Research Lab.

1 Migratory Way - P.O. Box 796

National Biological Service, USGS

Turners Falls, MA 01376

Telephone: (413) 863-9475

FAX: (413) 863-9810

Last update: 3/13/96

E-mail:

BS Cornell University

MS Michigan State University

PhD University of Michigan

Courses Taught:

Ichthyology.

Fish Physiology

Vertebrate Zoology

Evolution

Fish Nutrition

Freshman Biology

Water-related Specialties

Fish physiology

Fish Cytogenetics

Fish Life History

Water-related Current Research

Anadromous Fish Passage Migration and Biology of Anadromous Fish as related to Restoration/reestablishment



Boreman, John

Forestry and Wildlife Management

Blaisdell House

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-2842

FAX: (413) 545-2304

Last update: 3/20/96

E-mail: jboreman@forwild.umass.edu

BSc SUNY/Env. Science and Forestry

MS Cornell University

PhD Cornell University

Courses Taught:

Fishery Conservation in the Coastal Zone

Water-related Specialties

Coastal migratory fish spp.; fishery science and management; environmental impact assessment modeling

Water-related Current Research

Restoration of coastal/estuarine fisheries stocks; Fisheries/habitat interactions; Estuarine/coastal

Directory of Water Resources Expertise

fisheries
science and management

Bossert, William H.

Division of Applied Sciences
Aiken Computation Lab, Rm. 214
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-4318
E-mail: bossert@das.harvard.edu

AB Harvard University
AM Harvard University
PhD Harvard University

FAX: (617) 495-9837

Last update: 3/ 1/90

Courses Taught:

Fisheries management; ecology for undergraduates.

Water-related Specialties

General ecology; biostatistics; computer modeling.

Water-related Current Research

Fisheries management.



Boyce, James

Economics
Thompson Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-3815
E-mail: boyce@econs.umass.edu

BA Yale
MA Oxford
PhD Oxford

FAX: (413) 545-2921

Last update: 4/14/96

Courses Taught:

Political Economy of the Environment

Water-related Specialties

Political Economy of Environmental Policy

Water-related Current Research

Socio-economic Determinants of Inter-state Variations in Environmental Protection and Water Quality

Directory of Water Resources Expertise

Bradley, Raymond S.

Dept. of Geosciences
Morrill Science Center
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-2794 FAX: (413) 545-1200

E-mail: rbradley@climate1.geo.umass.edu

BS Southampton University

MA University of Colorado

PhD University of Colorado

Last update: 3/16/96

Courses Taught:

Climatology, Paleoclimatology, Problems in Climatology, Climatic Change

Water-related Specialties

Climatology; climatic change; paleoclimatology, global change

Water-related Current Research

Precipitation changes, global warming, climate variability.



Bras, Rafael L.

Civil & Environmental Engineering
Rm 1-290 Ralph M. Parsons Lab.
Massachusetts Institute of Technology
Cambridge, MA 02139

Telephone: (617) 253-2117

FAX: (617) 253-4546

E-mail: rlbras@mit.edu

BS MIT

MS MIT

ScD MIT

Last update: 3/18/96

Courses Taught:

Hydrology, stochastic hydrology, water resource systems.

Water-related Specialties

Surface and groundwater hydrology; hydrometeorology; hydroclimatology; fluvial geomorphology; precipitation; flood and precipitation forecasting.

Water-related Current 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.

Directory of Water Resources Expertise

Brenninkmeyer, Benno Max, S. J.

Dept. of Geology and Geophysics

Higgins 175

Boston College

Chestnut Hill, MA 02167

Telephone: (617) 5523655

E-mail:

BA Boston College

PhD University of So. California

FAX: (617) 552-2462

Last update: 3/ 1/90

Courses Taught:

Oceanography; advanced oceanography; coastal geology; marine geology; hydrology; mathematical geology; sedimentary techniques.

Water-related Specialties

Nearshore oceanography and wave dynamics; nearshore sediment movement.

Water-related Current Research

Coarse clastics, their origin and dynamics; coastal sedimentation; groundwater movement in the coastal zone.



Brooks, Edward M.

Dept. of Geology and Geophysics

213A Devlin Hall

Boston College

Chestnut Hill, MA 02167

Telephone: (617) 552-3586 x3646 FAX: ()

E-mail:

AB Harvard College

SM MIT

ScD MIT

Last update: 3/ 1/90

Courses Taught:

Introduction to pollution; climatology; world climate and life; meteorology; physical meteorology; chemical oceanography.

Water-related Specialties

Extended forecasting and long-range forecasting of precipitation; meteorological and climatological changes in precipitation; rainfall in tropical hurricane.

Water-related Current Research

Increases in summer rainfall in the city of Sao Paulo; precipitation in relation to the sunspot cycle; eccentricity in the planet's orbit as a factor in melting glaciers.

Directory of Water Resources Expertise

Brown, Linfield C.

Civil & Environmental Engineering
209 Anderson Hall
Tufts University
Medford, MA 02155
Telephone: (617) 627-3211
E-mail: lbrown@pearl.tufts.edu

MS Tufts University
PhD University of Wisconsin

FAX: (617) 627-3994

Last update: 3/20/96

Courses Taught:

Probability and Statistics
Water Quality Modeling
Water and Wastewater Treatment Plant Design
Environmental Engineering Processes

Water-related Specialties

Environmental Statistics
Water Quality Modeling

Water-related Current Research

Uncertainty Analysis in Water Quality Modeling
Multiresponse Parameter Estimation
Genetic Algorithms for Calibrating Water Quality Models



Bruell, Clifford J.

Civil & Environmental Engineering
One University Avenue
University of Massachusetts/Lowell
Lowell, MA 01854
Telephone: (508) 934-2284
E-mail: bruell@woods.uml.edu

BS Lowell Technological Institute
MS Lowell Technological Institute
PhD University of Connecticut

FAX: (508) 934-3052

Last update: 4/17/96

Courses Taught:

Physical and Chemical Hydrogeology; Environmental Chemistry; Municipal and Hazardous Waste Management;

Water-related Specialties

In situ Air Sparging for the Remediation of Volatile or Biodegradable Organic Contaminants

Water-related Current Research

Improvement of Soil-based Barriers through the Addition of Iron Compounds
Effects of the Mean Pore Size, Pore Size Distribution, and Pore Geometry on the Mobilization of Petroleum Hydrocarbons by Surfactant Enhanced In situ Soil Flushing

Directory of Water Resources Expertise

Burger, H. Robert

Department of Geology

Smith College

Northampton, MA 01063

Telephone: (413) 585-3942

FAX: (413) 585-3786

Last update: 3/ 1/90

E-mail: rburger@science.smith.edu

BS Yale University

PhD Indiana University

Courses Taught:

Exploration geophysics; water and policy; sources, uses, and social control.

Water-related Specialties

Exploration geophysics in the shallow subsurface.

Water-related Current Research

Defining aquifer geometrics using shallow reflection seismology.



Burk, Carl John

Dept. of Biological Sciences

248 Sabin-Reid Hall

Smith College

Northampton, MA 01063

Telephone: (413) 584-2700 x782

FAX: ()

Last update: 3/ 1/90

E-mail:

AB University of Miami (Ohio)

MA University of North Carolina

PhD University of North Carolina

Courses Taught:

None at present.

Water-related Specialties

None reported.

Water-related Current Research

Ecological studies of freshwater marshes, floodplains, and coastal areas.

Directory of Water Resources Expertise

Butler, James N.

Division of Applied Science
Pierce Hall, 29 Oxford Street
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-2845
E-mail: butler@das.harvard.edu

BS Rensselaer Polytechnic Inst.
PhD Harvard University

FAX: (508) 358-5732

Last update: 10/12/95

Courses Taught:

Marine Chemistry
Environmental Geochemistry
Environmental Quality

Water-related Specialties

Chemistry of Natural and Polluted Waters

Water-related Current Research

Fate and Effects of Spilled Oil
pH and Ionic Equilibria in Natural Waters, especially CO₂



Calabrese, Edward J.

Division of Public Health
Public Health Center
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-3164
E-mail: edwardc@schoolph.umass.edu

BS Bridgewater State College
MS Bridgewater State College
PhD University of Massachusetts
EdD University of Massachusetts

FAX: (413) 545-4692

Last update: 3/ 1/90

Courses Taught:

Environmental and occupational health toxicology; development of environmental and occupational health standards.

Water-related Specialties

Public health; drinking water quality; toxic metals; toxic substances; contamination.

Water-related Current Research

The effects of elevated sodium in community drinking water on blood pressure distribution patterns.

Directory of Water Resources Expertise

Cambareri, Tom

Water Resources Office
3225 Main St., P.O. Box 226
Cape Cod Commission
Barnstable, MA 02630

Telephone: (508) 362-3828 FAX: (508) 362-3136
E-mail: 74260.3152@compuserv.com

MS University of Massachusetts

Last update: 3/18/96

Courses Taught:

Water-related Specialties

- Regional Water Resources Management
- Regulatory Efficiency
- Groundwater Discharge to Coastal Water

Water-related Current Research

- Regional Water Resources Management
- Non-point Source Management
- Water Supply Management
- Groundwater/Surface Water Interactions
- Contaminant Fate and Transport
- Remediation of Hazardous Waste Sites



Cheetham, Roland D.

Dept. of Biology & Biotechnology
Salisbury Laboratories
Worcester Polytechnic Institute
Worcester, MA 01609

Telephone: (508) 831-5582 FAX: ()
E-mail:

BA University of Minnesota
MS University of Minnesota
PhD Purdue University

Last update: 3/ 1/90

Courses Taught:

Limnology; environmental science.

Water-related Specialties

Aquatic weed control; aquatic microbiology.

Water-related Current Research

Public health significance of amphipods and other macroinvertebrates.

Directory of Water Resources Expertise

Chen, Robert F.

Environmental Sciences Program
100 Morrissey Blvd.
University of Massachusetts/Boston
Boston, MA 02125-3393
Telephone: (617) 287-7491
E-mail: chenr@umbsky.cc.umb.edu

BA Harvard University
PhD Scripps Inst. of Oceanography

FAX: (617) 287-7474

Last update: 7/ 8/96

Courses Taught:

Analytical Techniques in Environmental Sciences: Organic Geochemistry; Environmental Biogeochemistry; Introduction to Oceanography

Water-related Specialties

Quantifying and Characterizing Dissolved Organic Matter in Seawater; Biogeochemistry of Organic Contaminants in Coastal Waters; Fluorescence Instrumentation for in situ, real-time measurements

Water-related Current Research

Real-time Monitoring of Boston Harbor Organics (Polycyclic Aromatic Hydrocarbons and Dissolved Organic Carbon) by Time-resolved Fluorescence
Export of Dissolved Organic Matter from the Mid-Atlantic Bight
Development of a Fiber Optic Profiler for Measuring Organic Contaminants near the Sediment-Water Interface



Chinachoti, Pavinee

Food Science
Chenoweth Lab, Box 31410
University of Massachusetts/Amherst
Amherst, MA 01003-1410
Telephone: (413) 545-1025
E-mail: pavinee@foodsci.umass.edu

FAX: (413) 545-1262

Last update: 3/18/96

Courses Taught:

Food Processing; Bioprocessing Water in Foods

Water-related Specialties

Food Processing; Food Shelf-life Stability; Role of Water on Deterioration

Water-related Current Research

Wastewater Treatment from Fish Processing Plants
Dewatering and Dehydration Technology
Solid-state Microbial Activity

Directory of Water Resources Expertise

Chisholm, Sallie W.

Civil & Environmental Engineering
Div. of Water Resources and Env. Engr.
Massachusetts Institute of Technology
Cambridge, MA 02139
Telephone: (617) 253-1771
E-mail: chisholm@mit.edu

BS Skidmore College
PhD State Univ. of New York-Albany

FAX: (617) 258-7009

Last update: 3/18/96

Courses Taught:

Fundamentals of ecology; plankton ecology; Introductory Biology

Water-related Specialties

Phytoplankton Ecology; Global Carbon Cycles; Ecosystems Experiments

Water-related Current Research

Applications of flow cytometry to marine particle analysis; sexual differentiation in phytoplankton; ecology of photosynthetic marine picoplankton; Iron limitation of Ocean Productivity



Chudyk, Wayne A.

Dept. of Civil Engineering
113 Anderson Hall
Tufts University
Medford, MA 02155
Telephone: (617) 381-3211
E-mail: wchudyk@emerald.tufts.edu

BS Clarkson College
MS University of Illinois
PhD University of Illinois

FAX: (617) 627-3499

Last update: 6/16/94

Courses Taught:

Introduction to Environmental Engineering; Fate and Transport of Environmental Contaminants; Water Chemistry; Technology and the Environment; Site Investigation Techniques; Physiochemical Treatment Processes; Biological Treatment Processes

Water-related Specialties

Groundwater contaminant detection and treatment; Drinking Water Quality; Wastewater Treatment for Organics Removal; Sampling and Analysis Instrumentation

Water-related Current Research

Groundwater monitoring using fiber optics and laser-induced fluorescence.
Volatile organics losses during aeration of wastewater

Directory of Water Resources Expertise

Clark, John M.

Entomology
102G Fernald Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-1052
E-mail: jclark@ent.umass.edu

BS University of Wisconsin
MS University of Wisconsin
PhD Michigan State University

FAX: (413) 545-2115

Last update: 6/ 1/94

Courses Taught:

Chemicals and the Environment
Toxicology of Insecticides
Analysis of Pesticidal Chemicals
Principles of Environmental Toxicology and Chemistry
Methods in Environmental Toxicology and Chemistry

Water-related Specialties

Neuropharmacology of insecticide action
Biochemical toxicology of insecticides
Mechanisms of insecticide resistance including population genetics and molecular biology aspects, pharmacokinetics and metabolism of insecticides
Environmental chemistry (analytical and immunochemical detection aspects)

Water-related Current Research

Impacts of pesticides on groundwater
Methods for the detection of pesticides



Clifton, Natalia

Entomology
Box 32410 Fernald Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-1044
E-mail: nclifton@ent.umass.edu

FAX: (413) 545-5858

Last update: 3/20/96

Courses Taught:

Water-related Specialties

Water-related Current Research

Directory of Water Resources Expertise

Cochrane, John J.

Civil & Environmental Engineering
360 Huntington Avenue
Northeastern University
Boston, MA 02115
Telephone: (617) 373-3930
E-mail: jjc@neu.edu

BS Northeastern University
MS Renssalaer Polytechnic Inst.
PhD Renssalaer Polytechnic Inst.

FAX: (617) 373-4419

Last update: 3/16/96

Courses Taught:

Water Treatment; Wastewater Treatment; Advanced Wastewater Treatment; Bioprocesses Engineering;
Fluid Mechanics; Hydraulics; Environmental Engineering

Water-related Specialties

Fluid Mechanics
Hydraulic Engineering
Water and Wastewater Treatment
GAC Applications
Hazardous Waste Treatment

Water-related Current Research

Computer-based data handling for process performance
Contact clarification and direct RG Filtration
Granular Filtration
Computer-based analysis and design



Coffin, Peter

Cooperative Extension
5 Irving Street
University of Massachusetts/Amherst
Worcester, MA 01609
Telephone: (508) 831-1223
E-mail:

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Water-related Specialties

Water-related Current Research

Directory of Water Resources Expertise

Colburn, Elizabeth A.

Center for Biological Conservation
208 South Great Road
Massachusetts Audubon Society
Lincoln, MA 01773
Telephone: (617) 259-9506 7404 FAX: (617) 259-1040
E-mail: bcolburn@massaudubon.org

MS University of Wisconsin
PhD University of Wisconsin

Last update: 3/16/96

Courses Taught:

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

Water-related Specialties

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

Water-related Current Research

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



Colby, Frank, Jr. P.

Dept. of Earth Sciences
OH 302 C
University of Massachusetts/Lowell
Lowell, MA 01854
Telephone: (508) 934-3906 FAX: (508) 934-3069
E-mail: colby@drizzl.uml.edu

BS University of Michigan
MS MIT
PhD MIT

Last update: 3/20/96

Courses Taught:

Physical climatology; synoptic meteorology; forecasting.

Water-related Specialties

Surface energy balance; synoptic and mesoscale meteorology; computer-based analysis techniques.

Water-related Current Research

Development of on-line computer manipulation of current meteorological data, including development of analysis models.

Directory of Water Resources Expertise

Cooney, Joseph J.

Dept. of Environmental Sciences
104 Building 010
University of Massachusetts/Boston
Boston, MA 02125
Telephone: (617) 287-7446
E-mail: cooney@umbsky.cc.umb.edu

BS LeMoyne College
MS Syracuse University
PhD Syracuse University

FAX: (617) 287-7474

Last update: 7/19/96

Courses Taught:

Seminar in Environmental Microbiology; Scientific Writing

Water-related Specialties

Microbial degradation and transformation of chemicals.

Water-related Current Research

Hydrocarbon degradation by microorganisms; transformations and degradation of metals and organometals by aquatic microorganisms; microbial carotenoid pigments; biofilms; viruses in aquatic ecosystems



Cox, Douglas

Dept. of Plant & Soil Sciences
12C Stockbridge Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-5214
E-mail:

BS University of Massachusetts
MS Cornell University
PhD Cornell University

FAX: (413) 545-3958

Last update: 3/16/96

Courses Taught:

Soil Fertility
Growing Plants Indoors
Plant Nutrients

Water-related Specialties

Plant Nutrition - specifically greenhouse crops

Water-related Current Research

Nitrate and Phosphate Runoff Reduction from Commercial Greenhouses

Directory of Water Resources Expertise

Crusberg, Theodore C.
Dept. of Biology and Biotechnology
Worcester Polytechnic Institute

BA University of Connecticut
MS Yale University
PhD Clark University

Worcester, MA 01609

Telephone: (508) 831-5472

FAX: (508) 831-5936

Last update: 3/18/96

E-mail: crusberg@wpi.edu

Courses Taught:

Solid waste management; introduction to health physics; molecular biology; advanced molecular genetics; Microbiology; Environmental Biology

Water-related Specialties

Heavy metal retrieval and recovery and high quality water for new technologies.

Water-related Current Research

Heavy metal retrieval and recovery using the fungus *Penicillium ochro-chloron*, with special emphasis on electroplating wastewaters; analysis of risks to watershed areas using aerial and satellite data.



Culligan-Hensley, Patricia Jane
Civil & Environmental Engineering
Rm 1-353, 77 Massachusetts Avenue
Massachusetts Institute of Technology
Cambridge, MA 02137

BSc University of Leeds, U.K.
PhD Cambridge University, U.K.

Telephone: (617) 258-7093

FAX: (617) 253-6044

Last update: 4/ 2/96

E-mail: trishch@mit.edu

Courses Taught:

Introduction to Geotechnical Engineering
Hazardous Waste Disposal and Site Remediation Technology

Water-related Specialties

Environmental Geotechnics
Centrifuge Modeling of Contaminant Transport Processes

Water-related Current Research

Heavy Metal Transport in Wetland Deposits
Mechanisms for NAPL Entrapment in Porous Media
DNAPL Migration and Remediation in Fracture Systems
Unstable Fluid Infiltration in the Vadose Zone
Mechanisms for Air-sparging in the Saturated Zone

Directory of Water Resources Expertise

Curry, Kevin D.

PhD

Biology

Bridgewater State College

Bridgewater, MA 02325

Telephone: (508) 697-1200 2082 FAX: (508) 697-1785

Last update: 5/27/96

E-mail:

Courses Taught:

Biomonitoring and Water Pollution; Ichthyology; Limnology

Biological Environment; General Biology

Water-related Specialties

Biological Indicators Using Fish and Macroinvertebrates

Macroinvertebrate Colonization of Artificial Substrates

Water Quality Monitoring

Volunteer Water Quality Monitoring

Water-related Current Research

Influence of Flow on Macroinvertebrate Colonization of Artificial Substrates

Biological Assessment of Macroinvertebrates in Southeastern

Massachusetts Rivers and Streams (Taunton River Watershed)



D'Avanzo, Charlene

BA Skidmore College

School of Natural Science

PhD Boston University

Hampshire College

Amherst, MA 01002

Telephone: (413) 549-5371 x569 FAX: ()

Last update: 4/ 2/96

E-mail: cdavanzo@hampshire.edu

Courses Taught:

Ecology; aquatic ecology; marine ecology; environmental science and politics.

Water-related Specialties

Nutrient cycling in coastal waters; detrital food webs in coastal habitats.

Water-related Current Research

Septic contamination of Woquoit Bay, Cape Cod MA; response of macroalgae to nitrogen enrichment.

Directory of Water Resources Expertise

Dabkowski, Gregory M.

Chemical Analysis Laboratory

Tower A

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-0045

FAX: ()

E-mail:

BA Central Connecticut State Col.

MS University of Massachusetts

PhD University of Massachusetts

Last update: 3/ 1/90

Courses Taught:

Techniques in microelemental analysis.

Water-related Specialties

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

Water-related Current Research

Collaborative analytical services for researchers.



Davis, P. Thompson

Department of Natural Sciences

175 Forest Street

Bentley College

Waltham, MA 02154-4705

Telephone: (617) 891-3479

FAX: (617) 891-2838

E-mail: pdavis@bentley.edu

BA University of New Hampshire

MS University of Maine

PhD University of Colorado

Last update: 6/ 9/94

Courses Taught:

Water and the Environment

Environmental Geology

Water-related Specialties

Snow hydrology, glaciology, and climatic change

Water-related Current Research

Glaciation chronology for Baffin Island, Arctic Canada

Glaciation chronology for Colorado Front Range

Directory of Water Resources Expertise

Deegan, Linda A.

PhD Louisiana State University

Ecosystems Center

7 MBL Street

Marine Biological Laboratory

Woods Hole, MA 02543

Telephone: (508) 289-7487

FAX: (508) 457-1548

Last update: 3/16/96

E-mail: ldeegan@lupine.mbl.edu

Courses Taught:

Marine Fisheries Ecology and Management; Ecosystems Management

Water-related Specialties

Fish population dynamics; nutrient cycling; wetlands; Food Webs

Water-related Current Research

Response of coastal ecosystems to eutrophication; Stream Ecology



Dethier, David P.

PhD University of Washington

Geology

Williams College

Williamstown, MA 01267

Telephone: (413) 597-2221

FAX: (413) 597-4116

Last update: 3/ 1/90

E-mail:

Courses Taught:

Water and the Environment; Geomorphology; Environmental Geology

Water-related Specialties

Water-related Current Research

Effects of acidic deposition on nutrient cycling; Hydrologic response of small streams

Directory of Water Resources Expertise

Deubert, Karl H.

Cranberry Experiment Station
Glen Charlie Road
University of Massachusetts/Amherst
E. Wareham, MA 02538
Telephone: (617) 295-2212
E-mail:

MS Martin Luther University
PhD Martin Luther University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

None.

Water-related Specialties

Persistence and translocation of pesticide residues; translocation and persistence of industrial organic chemicals.

Water-related Current Research

Hydroanalysis, biodegradation, and photoalteration of pesticides used in cranberry production.



DiNardi, Salvatore R.

Division of Public Health
Public Health Center
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-2379
E-mail: sdinardi@schoolph.umass.edu

BA Hofstra University
PhD University of Massachusetts

Last update: 3/ 1/90

Courses Taught:

None in water resource topics reported.

Water-related Specialties

Public health; water chemistry; pesticides.

Water-related Current Research

The potential for N-Nitrosamine formation on GAC.

Directory of Water Resources Expertise

DiPinto, Mary Ann

Wetlands & Waterways

75 Grove Street

Mass. Dept. of Environmental Protection

Worcester, MA 01605

Telephone: (508) 767-2711

FAX: (508) 792-7621

Last update: 3/18/96

E-mail: mdipinto@state.ma.us

BA Vassar College

MEd Worcester State College

Courses Taught:

Water-related Specialties

Administration of Massachusetts Wetlands Protection Act

Water-related Current Research



Eager, Karen

64 Dilla Street

New England Water Works Association

Milford, MA 01757-1104

Telephone: (508) 478-6996

FAX: (508) 634-8643

Last update: 3/18/96

E-mail:

BS Syracuse University

Courses Taught:

Water-related Specialties

Research Project Manager

Water-related Current Research

Water quality assessment: Quabbin and Wachusett Reservoirs, Ware River

Directory of Water Resources Expertise

Eberiel, David T.

Biological Science Department
North Campus
University of Massachusetts/Lowell
Lowell, MA 01854
Telephone: (508) 934-2866
E-mail: eberiel@woods.ulowell.edu

BS Bethany College
MS Tufts University
PhD Boston College

FAX: (508) 934-3044

Last update: 3/27/96

Courses Taught:

Industrial Microbiology; Microbiology

Water-related Specialties

Irradiation of Food; Biodegradation of Plastics

Water-related Current Research

Irradiation of *Vibrio vulnificans* in Oysters.



Ebersole, John P.

Department of Biology
Harbor Campus
University of Massachusetts/Boston
Boston, MA 02125
Telephone: (617) 287-6635
E-mail:

BS Cornell University

PhD UCLA

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Benthic Ecology

Water-related Specialties

Benthic Ecology

Water-related Current Research

Effects of pond acidification on fish populations

Directory of Water Resources Expertise

Edman, John D.

Dept. of Entomology
Fernald Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-2557
E-mail: jdedman@ent.umass.edu

BS Gustavus Adolphus College
MS University of Nebraska
PhD Kansas State University

FAX: (413) 545-2115

Last update: 3/22/96

Courses Taught:

Aquatic Invertebrates

Water-related Specialties

Arthropod ecology; wetland management; arthropods as indicators of water quality.

Water-related Current Research

Food sources of lotic filterers; water quality effects on arthropod fitness.



Edzwald, James K.

Department of Civil Engineering
Marston Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-2508
E-mail: edzwald@ecs.umass.edu

BS University of Maryland
MS University of Maryland
PhD University of North Carolina

FAX: (413) 545-2840

Last update: 3/ 1/90

Courses Taught:

Water Supply and Treatment; Water Chemistry; Physical-Chemical Processes in Environmental Engineering; Design of Environmental Facilities

Water-related Specialties

Water supply and treatment; water chemistry; physical chemical processes

Water-related Current Research

Treatment of water supplies for potable water

Directory of Water Resources Expertise

Eltahir, Elfatih A.B.

Civil & Environmental Engineering

Room 48-207

Massachusetts Institute of Technology

Cambridge, MA 02139

Telephone: (617) 253-6596

FAX: (617) 253-7462

Last update: 4/ 8/96

E-mail: eltahir@mit.edu

Courses Taught:

Surface Hydrology; Environmental Data Analysis

Water-related Specialties

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

Water-related Current 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



Emel, Jacque (Jody)

PhD University of Arizona

Graduate School of Geography

950 Main Street

Clark University

Worcester, MA 01610

Telephone: (508) 793-7317

FAX: (508) 793-8881

Last update: 10/ 7/95

E-mail: jemel@clarku.edu

Courses Taught:

Introduction to Hydrology

Groundwater Resources: Introduction to Science and Management

Resource Geography

Feminism, Nature and Culture

Water-related Specialties

Resource Management Institutions

Sustainable Resource Development

Water-related Current Research

Future of the Southern High Plains relative to aquifer depletion

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

Directory of Water Resources Expertise

Entekhabi, Dara

Civil & Environmental Engineering

Room 48-331

Massachusetts Institute of Technology

Cambridge, MA 02139

Telephone: (617) 253-9698

FAX: (617) 258-8850

Last update: 4/ 8/96

E-mail: darae@mit.edu

BA Clark University

MA Clark University

PhD MIT

Courses Taught:

Hydrology

Land-Atmosphere Interactions

Water-related Specialties

Surface Water - Groundwater Interactions

Surface Hydrology

Water-related Current Research

Surface Water Hydrology

Watershed Hydrology

Surface Hydrology



Ergas, Sarina J.

Civil and Environmental Engineering

18 Marston Hall

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-3424

FAX: (413) 545-2202

Last update: 3/16/96

E-mail: ergas@ecs.umass.edu

BS Humboldt State University

MS University of California/Davis

PhD University of California/Davis

Courses Taught:

Air Quality; Groundwater; Biological Phenomena; Environmental Analysis

Water-related Specialties

Biological Air Pollution Control Systems

Bioremediation

Fate and Transport of Pollutants

Water-related Current Research

Bioremediation of Contaminated Groundwater

Natural Systems for Wastewater Treatment

Directory of Water Resources Expertise

Fabos, Julius Gy

Dept. of Landscape Arch. & Reg'l Plan.

Hills North

University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-6619

FAX: (413) 545-1772

Last update: 7/ 8/96

E-mail: jfabos@larp.umass.edu

BS Rutgers University

M L A

Harvard University

PhD University of Michigan

Courses Taught:

Landscape Planning and Greenways Planning Studies with Focus on Planning Greenways Systems

Water-related Specialties

Stream Protection as Part of Greenways Systems

Land Use Planning

Landscape Planning with Focus on Environmentally Sensitive Areas and Landscapes

Water-related Current Research

MDC's Stillwater Drainage Basin Study in Mass. for Land Acquisition to Protect Water Quality
Over 20 other water-related research projects since 1956



Fannin, Tim

Environmental Contaminants

300 Westgate Center Drive

U.S. Fish & Wildlife Service

Hadley, MA 01035

Telephone: (413) 253-8646

FAX: (413) 253-8482

Last update: 9/25/95

E-mail: annin,tim@mail.fws.gov

BA Murray State University

MS University of Wyoming

PhD University of Wyoming

Courses Taught:

Water-related Specialties

Interactions between right of prior appropriation and water quality, including effects on endangered species (mussels, fish, cranes). Relationship between broad-brush land uses and water quality.

Water-related Current Research

Research administrator for field units in northeast U.S.

Directory of Water Resources Expertise

Fennessey, Neil M.

Civil & Environmental Engineering
285 Old Westport Road
University of Massachusetts/Dartmouth
Dartmouth, MA 02747-2300
Telephone: (508) 999-8416
E-mail: nfennessey@umassd.edu

BSc University of Massachusetts
BSE University of Massachusetts
MS MIT
PhD Tufts University

FAX: (508) 999-8964

Last update: 3/20/96

Courses Taught:

Engineering Fluid Mechanics; Engineering Hydraulics; Hydrology and Water Resources Engineering

Water-related Specialties

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.

Water-related Current 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.



Field, Barry

Resource Economics
Draper Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-5709
E-mail: field@resecon.umass.edu

BS Cornell University
MS Cornell University
PhD University of California

FAX: (413) 545-5853

Last update: 3/ 1/90

Courses Taught:

Environmental economics

Water-related Specialties

Environmental Policy
Economics of Property Rights

Water-related Current Research

None at present.

Directory of Water Resources Expertise

Finn, John T.

Dept. of Forestry & Wildlife Management
Holdsworth Hall

University of Massachusetts/Amherst

Amherst, MA 01003-4210

Telephone: (413) 545-1819

FAX: (413) 545-4358

Last update: 7/24/96

E-mail: finn@forwild.umass.edu

BS Georgetown University

PhD University of Georgia

Courses Taught:

Introduction to GIS; Digital Remote Sensing; Ecosystem Modeling.

Water-related Specialties

Remote Sensing GIS; Biodiversity Assessment; Ecosystem Modeling.

Water-related Current 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.



Fofonoff, Nicholas P.

Dept. of Physical Oceanography

Woods Hole Oceanographic Institute

Woods Hole, MA 02543

Telephone: (508) 548-2717

FAX: ()

Last update: 3/ 1/90

E-mail:

BA University of British Columbia

MA University of British Columbia

P h

D

Brown University

Courses Taught:

None.

Water-related Specialties

Ocean currents; ocean dynamics.

Water-related Current Research

Physical oceanography.

Directory of Water Resources Expertise

Foster, Charles H. W.

John F. Kennedy School of Government
79 JFK Street
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-0446
E-mail: cfoster@ksgbbs.harvard.edu

BA Harvard College
BSF University of Michigan
MS University of Michigan
PhD Johns Hopkins

FAX: (617) 495-1635

Last update: 3/22/96

Courses Taught:

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

Water-related Specialties

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

Water-related Current Research

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



Friedl, Mark

Department of Geography
675 Commonwealth Avenue
Boston University
Boston, MA 02215
Telephone: (617) 353-5745
E-mail: friedl@bu.edu

BSc McGill University
PhD University of California

FAX: (617) 353-8399

Last update: 3/7/96

Courses Taught:

Introduction to the Atmosphere
Environmental Modeling and Analysis Using GIS
Micrometeorology

Water-related Specialties

Land Surface Climate
Agricultural Meteorology

Water-related Current Research

Remote Sensing
Surface Energy Balance
Micrometeorology

Directory of Water Resources Expertise

Frimpter, Michael H.

Box 7

Horsley & Witten, Inc.

Barnstable, MA 02630

Telephone: (508) 362-5570

E-mail:

BA Williams College

MA Boston University

PhD Boston University

FAX: (508) 362-5335

Last update: 6/15/94

Courses Taught:

Groundwater Hydrology

Wellhead Protection

Water-related Specialties

Groundwater estimation and prediction of groundwater levels

Wellhead protection and delineation of wellhead protection areas

Water-related Current Research

Nitrate loading in groundwater to wells, ponds, bays

Pond/groundwater hydrology



Gallagher, Eugene D.

Environmental Sciences Program

080-First Floor Building 054

University of Massachusetts/Boston

Boston, MA 02125

Telephone: (617) 287-7953

E-mail: gallagher@umb.edu

BA Carleton College

MSc University of Washington

PhD University of Washington

FAX: (617) 287-7474

Last update: 7/24/96

Courses Taught:

Biological Oceanography

Mathematical Modeling

Benthic Boundary Layer Processes

Water-related Specialties

Statistical Analysis of Marine Benthic Communities

Water-related Current Research

Reanalysis of the EPA EMAP_E Benthic Community Structure and Pollution Data.

Directory of Water Resources Expertise

Garabedian, Stephen P.

Water Resources Division, New England

28 Lord Road

U.S. Geological Survey

Marlborough, MA 01752

Telephone: (508) 490-5005

E-mail: sgarabed@usgs.gov

BS University of Connecticut

MS Pennsylvania State University

PhD MIT

FAX: (508) 490-5068

Last update: 3/18/96

Courses Taught:

Hydrology; Groundwater Hydrology; Hydrogeology

Water-related Specialties

Groundwater flow and transport; Contaminant hydrology

Water-related Current Research

Modeling of solute transport at the USGS Cape Cod Toxic Waste Research site; Connecticut River NAWQA Project



Gelhar, Lynn F.

Civil & Environmental Engineering

Rm 48-329 Ralph Parsons Laboratory

Massachusetts Institute of Technology

Cambridge, MA 02139

Telephone: (617) 253-7121

E-mail: gelhar@mit.edu

BS University of Wisconsin

MS University of Wisconsin

PhD University of Wisconsin

FAX: (617) 258-8850

Last update: 3/18/96

Courses Taught:

Groundwater hydrology; advanced subsurface hydrology.

Water-related Specialties

Groundwater hydrology; contaminant transport in aquifers;
Stochastic Methods.

Water-related Current Research

Stochastic analysis of solute transport in unsaturated soils; stochastic analysis of transport processes in heterogeneous porous media; modeling biodegradation in groundwater.

Directory of Water Resources Expertise

Germaine, John T.

Building 1, Room 353, 77 Mass. Ave.

Massachusetts Institute of Technology

Cambridge, MA 02139

Telephone: (617) 253-7113

FAX: (617) 253-6044

Last update: 3/ 1/90

E-mail: jgermain@mit.edu

Courses Taught:

Water-related Specialties

Water-related Current Research



Giblin, Anne E.

Ecosystems Center

Marine Biological Laboratory

Woods Hole, MA 02543

Telephone: (508) 289-7488 488

FAX: (508) 457-1548

Last update: 3/22/96

E-mail: agiblin@lupine.mbl.edu

BS Rensselaer Polytechnic Inst.

PhD Boston University

Courses Taught:

N/A

Water-related Specialties

Interactions between iron and sulphur; sulphur cycling;
alkalinity balance in sediments and water; nitrogen cycling

Water-related Current Research

The storage of reduced S in sediments

Directory of Water Resources Expertise

Giglio, Richard J.

Dept. of Industrial Engineering
Marston Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-0646
E-mail: giglio@ecs.umass.edu

BS MIT
MS Stanford University
PhD Stanford University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Engineering economics.

Water-related Specialties

Capacity and investment planning; social decision-making.

Water-related Current Research

None relating to water topics reported.



Godfrey, Paul Jeffrey

Dept. of Botany
Morrill Science Center
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-6606
E-mail: pgodfrey@bio.umass.edu

BS University of Connecticut
PhD Duke University

FAX: ()

Last update: 3/27/96

Courses Taught:

Coastal plant ecology; plants and environment; plant geography; aquatic vascular plants; intraecology.

Water-related Specialties

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

Water-related Current Research

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

Directory of Water Resources Expertise

Godfrey, Paul Joseph

Director, Water Resources Research Ctr.

Blaisdell House

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-2842

FAX: (413) 545-2304

Last update: 6/27/96

E-mail: godfrey@tei.umass.edu

BS Tufts University

MS University of Massachusetts

PhD Cornell University

Courses Taught:

None at present.

Water-related Specialties

Acid deposition; eutrophication; aquatic ecology; phytoplankton ecology; macroinvertebrate ecology; lotic ecology; water chemistry; data base management systems; multivariate analysis.

Water-related Current Research

Supervision of many water resources research projects,
Massachusetts Water Watch Partnership and Environmental Analysis Laboratory



Goodwin, Steve D.

Department of Microbiology

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-4604

FAX: (413) 545-1578

Last update: 3/20/96

E-mail: sgoodwin@microbio.umass.edu

BA University of Maine

MS University of Virginia

P h

D

University of Wisconsin

Courses Taught:

General Microbiology

Microbial Ecology

Biology

Water-related Specialties

Anaerobic digestion; Microbial ecology; Solid wastes

Water-related Current Research

Anaerobic treatment of waste waters; microbial ecology of acid ecosystems; biodegradation of polymers

Directory of Water Resources Expertise

Graham, Terry E.

Biology Department
Science Building
Worcester State College
Worcester, MA 01602

Telephone: (508) 793-8583

FAX: ()

Last update: 3/ 1/90

E-mail:

AB Suffolk University

MS University of New Hampshire

PhD University of Rhode Island

Courses Taught:

Freshwater ecology; coastal ecology; marine biology; vertebrate natural history (fish and herps).

Water-related Specialties

Freshwater turtles, frogs, and fish; ecology of selected freshwater turtles (especially the endangered Plymouth red-bellied).

Water-related Current Research

Status, ecology, distribution and recovery of the endangered Plymouth red-bellied turtle.



Griffin, Curtice

Forestry & Wildlife Management
324 Holdsworth Hall
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-2640

FAX: (413) 545-4358

Last update: 3/18/96

E-mail: cgriffin@forwild.umass.edu

MS University of Missouri

PhD University of Missouri

Courses Taught:

Wetland Wildlife Ecology & Management

Biodiversity Conservation

Conservation Biology

Biodiversity & Ecosystem Management

Water-related Specialties

Effects of Oil and Gas Activities on Marine Birds of the Atlantic Coast

Development of Habitat Assessment Models for Wetland-dependent Birds in New England

GIS Analysis of Biodiversity in the Danube Delta, Romania

Ecology and Management of the Piping Plover

Water-related Current Research

Wetland Assessment; Wetland Wildlife Ecology; Remote Sensing/GIS;

Directory of Water Resources Expertise

Sustainable Development

Gross, Meir

Dept. of Landscape Arch. & Reg'l Plan.
Hills North
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-6625

FAX: (413) 545-1772

Last update: 3/ 1/90

E-mail: meirg@larp.umass.edu

BS University of Pennsylvania

MA University of Pennsylvania

MRP University of Pennsylvania

PhD University of Pennsylvania

Courses Taught:

Workshops and studios in regional and water resources planning; quantitative techniques in water resources management.

Water-related Specialties

Water resource planning and management; runoff and erosion; impact of land development on water resources.

Water-related Current Research

Reservoir recreational management.



Grotzinger, John P.

Dept. of Earth, Atmospher.& Planet. Sci.
54-1014

Massachusetts Institute of Technology
Cambridge, MA 02139

Telephone: (0)

FAX: ()

Last update: 3/ 1/90

E-mail:

BS Hobart College

MS University of Montana

PhD Virginia Polytechnic Institute

Courses Taught:

Stratigraphy; sedimentology; sedimentary basin analysis.

Water-related Specialties

Transport of sediment by fluids; geometry of aquifers and water reservoirs.

Water-related Current Research

Diagenesis and occlusion of porosity and permeability in karstic systems and other reservoirs; elucidation of fluid flow paths in ancient aquifers.

Directory of Water Resources Expertise

Gshwend, Philip M.

Civil & Environmental Engineering
Rm. 48-415 Ralph Parsons Laboratory
Massachusetts Institute of Technology
Cambridge, MA 02139

Telephone: (617) 253-1638

FAX: (617) 253-7395

Last update: 3/20/96

E-mail:

BS CA Institute of Technology
PhD Woods Hole Oceanographic Inst.

Courses Taught:

Environmental organic chemistry;
Environment and Technology.

Water-related Specialties

Transport and transformation of organic compounds in aquatic environments.

Water-related Current Research

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



Harb, Jacques N.

Civil Engineering
360 Huntington Ave, 420 SN
Northeastern University
Boston, MA 02115

Telephone: (617) 373-2345

FAX: (617) 373-4413

Last update: 6/ 8/94

E-mail: jharb@lynx.neu.edu

MS Northeastern University

Courses Taught:

Soil Mechanics Lab

Water-related Specialties

Groundwater
Geo-environmental engineering

Water-related Current Research

Groundwater contamination and remediation

Directory of Water Resources Expertise

Harleman, Donald R. F.

Civil & Environmental Engineering
Rm 48-317, Ralph M. Parsons Laboratory
Massachusetts Institute of Technology
Cambridge, MA 02139

Telephone: (617) 253-2726

FAX: (617) 258-8850

E-mail: drfh@mit.edu

BS Pennsylvania State University

MS MIT

ScD MIT

Last update: 3/18/96

Courses Taught:

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

Water-related Specialties

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

Water-related Current 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



Harrington, Joseph J.

Div. of Engineering & Applied Sciences

Pierce Hall 113

Harvard University

Cambridge, MA 02138

Telephone: (617) 495-2859

FAX: (617) 496-1457

E-mail: harringt@husc3.harvard.edu

Last update: 3/16/96

Courses Taught:

Water-related Specialties

Directory of Water Resources Expertise

Water-related Current Research

Hart, Frederick L.

Civil & Environmental Engineering
Rm 11713 Kaven Hall
Worcester Polytechnic Institute
Worcester, MA 01609
Telephone: (508) 831-5421
E-mail: flhart@wpi.edu

BS University of Connecticut
MS University of Connecticut
PhD University of Connecticut

FAX: (508) 831-5808

Last update: 4/ 2/96

Courses Taught:

Water Treatment; Water Distribution Systems

Water-related Specialties

Impacts of Stagnation in Water Pipes on Water Quality

Water-related Current Research

Water Distribution Systems; Water Filtration; Water Meters



Harvey, Charles F.

Engineering and Applied Sciences
29 Oxford Street, Pierce Hall 118
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-2858
E-mail: charles@das.harvard.edu

BS Oberlin College
MS Stanford University
PhD Stanford University

FAX: (617) 496-1457

Last update: 3/18/96

Courses Taught:

Hydrology; Groundwater Flow and Solute Transport; Advanced Topics in Hydrology and Aquifer Remediation; Operations Research; Geostatistics

Water-related Specialties

Groundwater Flow; Solute Transport in Groundwater; Stochastic Hydrology; Aquifer Remediation; Mass Transfer in Porous Media

Water-related Current Research

The Effects of Mobile-immobile Domain Mass Transfer of Large-scale Plume Migration and Aquifer Cleanup
Use of Confocal Microscopy to Study Intragranular Mass-transfer Processes
Physically-based Geostatistical Estimation of Aquifer properties from Measurements of Solute Arrival Time and Hydraulic Head
Interaction of Sorption, Diffusion, Dispersion and Macro-dispersion on Solute Transport in Aquifers
Risk Cost/Benefit Analysis of Aquifer Cleanup in the Presence of Rate-limited Mass Transfer

Directory of Water Resources Expertise

Poroelastic Solutions for the Rate of Growth of Natural Hydraulic Fractures

Hayes, John T.

Department of Geography - Digital Geogr.
352 Lafayette Street
Salem State College
Salem, MA 01970

Telephone: (508) 741-6226

FAX: ()

Last update: 1/27/94

E-mail: hayes@dgl.ssc.mass.edu

BA Bowling Green State University

MA University of California, L.A.

PhD UCLA

Courses Taught:

Physical Geography I, II; Soils I, II; Regional Climatology; Environmental Impact Assessment; Seminar in Physical Geography; GIS

Water-related Specialties

Quantitative land evaluation techniques using GIS and modeling; Global climate change and global environmental change; Modeling of soil-plant-atmosphere continuum of crops and forests; solar radiation climatology; Computer applications in environmental impact assessment.

Water-related Current Research

Crop evapotranspiration modeling; Crop yield modeling; Effects of climate change and climate variability on crop water use & crop productivity; Hydroclimatology; Climate and water resources; GIS and land evaluation and watershed analysis.



Hellquist, Barre C.

Biology

P.O. Box 9145

North Adams State College

North Adams, MA 01247

Telephone: (413) 662-5342

FAX: (413) 662-5010

Last update: 4/ 2/96

E-mail: bhellqui@nasc.mass.edu

BS University of New Hampshire

MS University of New Hampshire

PhD University of New Hampshire

Courses Taught:

Aquatic Plant course at Eagle Hill Research Station, Steuben, ME 1994-96

Water-related Specialties

Taxonomy, Ecology and Distribution of Vascular Aquatic Plants; Weedy, Non-native Plants of North America.

Water-related Current Research

Alismataceae, Juncaginaceae, Nymphaeaceae, Potamogetonaceae, and Trapaceae for the Flora of North America.

Taxonomy and Ecology of Potamogeton and Nymphaea of North America.

Directory of Water Resources Expertise

Hemond, Harry F.

Civil & Environmental Engineering
Parsons Laboratory Rm 48-309
Massachusetts Institute of Technology
Cambridge, MA 02139
Telephone: (617) 253-4111
E-mail:

MA Connecticut College
PhD MIT

FAX: (617) 258-8850

Last update: 3/19/96

Courses Taught:

Limnology and Wetland Ecology; Chemical fate and transport; Environmental instrumentation; Aquatic Chemistry Laboratory

Water-related Specialties

Ecology and biogeochemistry of wetlands; acid deposition; wetland hydrology; cycling of chemicals in the environment; Hillslope hydrology.

Water-related Current Research

Chemical fate and transport on the Aberjona watershed with emphasis on As, Cr, Hg, VOCs and mutagens).



Herwitz, Stanley R.

Departments of Geography & Biology
950 Main Street
Clark University
Worcester, MA 01610
Telephone: (508) 793-7209
E-mail: sherwitz@vax.clarku.edu

PhD Australian National University

FAX: (508) 793-8881

Last update: 3/20/96

Courses Taught:

Forest Hydrology Field Methods; Watershed Ecology; Earth System Science

Water-related Specialties

Evapotranspiration; Canopy Leaf Area Index (LAI); Forest Ecology; Biosphere-Atmosphere Interactions

Water-related Current Research

Three-dimensional Forest Canopy Modeling
Satellite Remote Sensing of Forest Canopies
Stereophotogrammetry and the Long-term Population Dynamics of Canopy Trees
Diurnal and Seasonal Variation in the Evapotranspiration Losses from Co-occurring Canopy Tree Species

Directory of Water Resources Expertise

Hess, Kathryn Marie

28 Lord Road, Suite 280
U.S. Geological Survey
Marlborough, MA 01970
Telephone: (508) 490-5029
E-mail: kmhess@usgs.gov

BS Stanford University

MS Stanford University

FAX: (508) 490-5030

Last update: 3/22/96

Courses Taught:


Groundwater Hydrology for Non-hydrologists

Water-related Specialties

Subsurface Solute Transport

Water-related Current Research

Effects of Physical and Geochemical Heterogeneity on Subsurface Transport

Natural Restoration of Sewage-contaminated  Aquifer

Hobbie, John E.

Ecosystems Center
Marine Biological Laboratory
Woods Hole, MA 02543
Telephone: (508) 548-3705
E-mail:

BA Dartmouth College

MA University of California

PhD Indiana University

FAX: (508) 457-1548

Last update: 3/ 1/90

Courses Taught:

Water-related Specialties

Microbial Ecology; Limnology

Water-related Current Research

Anaerobic processes in sediments; Arctic lake and stream studies

Directory of Water Resources Expertise

Hoffman, Allen H.

Department of Mechanical Engineering
100 Institute Road
Worcester Polytechnic Institute
Worcester, MA 01609
Telephone: (508) 831-5217
E-mail: ahoffman@wpi.edu

BS Worcester Polytechnic Inst.
MS Worcester Polytechnic Inst.
PhD University of Colorado

FAX: (508) 831-5680

Last update: 3/18/96

Courses Taught:

Water-related Specialties

Hydrology

Water-related Current Research

Water quality impacts of different land uses



Holland, Heinrich D.

Dept. of Geological Sciences
Rm. 306 Hoffman Laboratory
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-5892
E-mail:

BA Princeton University
MA Harvard University
MS Columbia University
PhD Columbia University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

None reported at present.

Water-related Specialties

Chemical oceanography; hydrothermal geochemistry.

Water-related Current Research

Evolution of the atmosphere and oceans; origins of Mississippi
Valley lead ore deposits.

Directory of Water Resources Expertise

Hopkinson, Jr., Charles S.

Ecosystems Center
Marine Biological Laboratory
Woods Hole, MA 02543
Telephone: (508) 289-7688
E-mail: chopkins@lupine.mbl.edu

BS Ursinus College
MS Louisiana State University
PhD Louisiana State University

FAX: (508) 457-1548

Last update: 4/ 2/96

Courses Taught:

None reported

Water-related Specialties

Primary production; Macrophytes; Nutrient cycling; Systems ecology; Modeling

Water-related Current Research

Dissolved Organic Matter Interactions in Watersheds, Bays and Oceans
Global Carbon Pool
Nitrogen Cycling



Horsley, Scott

11 Beacon Street, Suite 1005
Horsley & Witten, Inc.
Boston, MA 02108
Telephone: (617) 367-6541
E-mail:

BS SMU
MS URI

FAX: (617) 367-7416

Last update: 4/ 2/96

Courses Taught:

Land use planning
Water Resources Policy

Water-related Specialties

Water-related Current Research

Groundwater Monitoring
Nutrient Loading Assessment
Water Quality Investigation for Golf Courses & Agriculture
Watershed Planning
Flood Hazard Planning
Diagnostic/Feasibility Evaluation for Lakes and Rivers
Marine/Estuarine Water Quality Studies

Directory of Water Resources Expertise

Hultin, Herbert O.

Food Science
Marine Station, P.O. Box 7128
University of Massachusetts/Amherst
Gloucester, MA 01930
Telephone: (508) 281-1930
E-mail:

BS MIT
MS MIT
PhD MIT

FAX: (508) 281-2618

Last update: 3/18/96

Courses Taught:

Food Biochemistry

Water-related Specialties

Fish By-product Utilization; Enzymes from Marine Sources;
Functional Properties of Proteins; Lipid Oxidation

Water-related Current Research

Minimizing Water Requirements in Fish Processing
Clean-up of Water from Fish Processing Operations



Inyang, Hilary I.

Center for Environmental Engineering
One University Avenue
University of Massachusetts/Lowell
Lowell, MA 01854
Telephone: (508) 934-2285
E-mail:

BSc University of Calabar, Nigeria
BS North Dakota State University
MS North Dakota State University
PhD Iowa State University

FAX: (508) 934-3092

Last update: 4/ 9/96

Courses Taught:

Physico-chemical Interactions in Earthen Barriers; Design and Analysis of Waste Containment Systems;
Soil Mechanics; Environmental /Engineering Geology

Water-related Specialties

Waste Containment in Sensitive Environments; Assessment of Contaminant Leachability from Utilized
Waste; Runoff Quality Analysis; Erosion and Regional Water Quality; Siting of Waste Containment
Facilities

Water-related Current Research

Analysis of Contaminant Leaching Characteristics of Class F Fly Ash
Foil Hazards to Waste Containment Facilities
Cost-effective, Post-construction Integrity Monitoring and Testing Techniques for Subsurface Barriers

Directory of Water Resources Expertise

Jahoda, John C.

Dept. of Biological Sciences

Bridgewater State College

Bridgewater, MA 02324

Telephone: (508) 697-1200 x2088 FAX: (508) 697-1785

E-mail:

BA University of Connecticut

PhD Oklahoma State University

Last update: 1/ 1/90

Courses Taught:

Ecology; environmental biology; marine biology.

Water-related Specialties

Marine mammal studies; salt marsh ecology; small ponds and wetland studies.

Water-related Current Research

Ecology of a small pond; ecology of Black Caiman.



Kaynor, Edward R.

Water Resources Research Center

Blaisdell House

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-2842 FAX: ()

E-mail:

BA Yale University

MA Yale University

MA University of Massachusetts

Last update: 3/27/96

Courses Taught:

Water-related Specialties

Water resources planning and policy; citizen participation; survey research; institutions for planning and management of water resources; attitude surveys.

Water-related Current Research

Directory of Water Resources Expertise

Kerr, Peter

Environmental Analysis Laboratory
University of Massachusetts/Amherst
Amherst, MA 01003-0820
Telephone: (413) 545-2936
E-mail: pkerr@tei.umass.edu

BSc Dalhousie University
MS University of Massachusetts

FAX: (413) 545-4490

Last update: 3/26/96

Courses Taught:

Water-related Specialties

Water-related Current Research



Keshavan, Kris

Dept. of Civil Engineering
Kaven Hall
Worcester Polytechnic Institute
Worcester, MA 01609
Telephone: (508) 831-5142
E-mail:

BSc University of Mysore
BE University of Mysore
MS University of Iowa
PhD Cornell University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Undergraduate and graduate courses in water and wastewater treatment.

Water-related Specialties

Biological treatment; thermal pollution.

Water-related Current Research

Kinetics of biological treatment; chlorination; thermal discharges to natural waters.

Directory of Water Resources Expertise

Khanna, Sat D.

Civil & Environmental Engineering
285 Old Westport Road
University of Massachusetts/Dartmouth
North Dartmouth, MA 02747-2300
Telephone: (508) 999-8464
E-mail: skhanna@umassd.edu

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

FAX: (508) 999-8964

Last update: 3/18/96

Courses Taught:

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

Water-related Specialties

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

Water-related Current Research

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



Kildow, Judith T.

Dept. of Ocean Engineering
Rm 5-214
Massachusetts Institute of Technology
Cambridge, MA 02139
Telephone: (617) 253-4328
E-mail:

AB Grinnell College
MA Tufts University
PhD Tufts University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Coastal zone management; resource management.

Water-related Specialties

Policy and economics.

Water-related Current Research

Comparative studies in international harbor management; ocean dumping of high and low level nuclear waste; toxic waste disposal (multimedia).

Directory of Water Resources Expertise

Klar, Lawrence, Jr R.

Dept. of Hotel, Restaurant & Travel Adm.
210 Flint Hall

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-6639

FAX: (413) 545-1235

Last update: 3/16/96

E-mail: lklar@hrta.umass.edu

BA San Jose State University

MS San Jose State University

PhD Oregon State University

Courses Taught:

None reported at present.

Water-related Specialties

Outdoor recreation management; public attitudes; multiple use of reservoirs for drinking water and recreation.

Water-related Current Research

Public attitudes toward the recreational use of drinking water reservoirs; willingness to pay; outdoor recreational use patterns in Massachusetts; recreation travel patterns.



Klekowski, Edward

Dept. of Botany

Morrill Science Center

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-0524

FAX: ()

Last update: 3/ 1/90

E-mail: libbyk@bio.umass.edu

BS University of North Carolina

MS University of North Carolina

PhD University of California

Courses Taught:

Introductory genetics; genetics and evolution; Non-Mendelian genetics; introductory botany; genetics manipulation of plant material.

Water-related Specialties

Environmental mutagenesis; development and use of mutagen bioassays (microbial and higher plants).

Water-related Current Research

Use of in-situ plant bioassays to screen aquatic environments, especially those contaminated with PCB's.

Directory of Water Resources Expertise

Kostecki, Paul

Environmental Health & Sciences
N344 Morrill
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-4610
E-mail: pkostecki@schoolph.umass.edu

BS University of Massachusetts
MS University of Michigan
PhD University of Michigan

FAX: (413) 545-4692

Last update: 3/22/96

Courses Taught:

Principles and Practices for the Assessment and Remediation of Contaminated Soils; Physiological Ecology of Fish; Ichthyology

Water-related Specialties

Ecological Risk Assessment; Fish Physiology; Petroleum Contamination

Water-related Current Research

Fish as Bioassay Models; Heavy Metal Uptake in Fish; Peroxisome Proliferation in Medaka & Rainbow Trout



Krofta, Milos

P.O. Box 1639, 101 Yokun Avenue
Lenox Institute of Water Technology
Lenox, MA 01240
Telephone: (413) 637-3025
E-mail:

FAX: (413) 637-3362

Last update: 6/17/94

Courses Taught:

Physicochemical Treatment; Flotation; Biological Treatment; Water and Wastewater Lab; Applied Hydrology; Sludge Treatment; Unit Treatment Process Lab; Differential Equations

Water-related Specialties

Water Treatment for Drinking; Municipal Wastewater Treatment; Treatment of Municipal and Industrial Sludge; Treatment of Paper and Pulp Wastes

Water-related Current Research

Optimization of 5 ft. Supracell
BOD Reduction with Hydrogen Peroxide
Phosphorus Removal from Laurel Lake
BOD Reduction with Ultraviolet Radiation
Sludge Treatment with Oxy-Ozonation
BOD Reduction with Biopack
Electroflot Thickener

Directory of Water Resources Expertise

Kynard, Boyd E.

Dept. of Forestry & Wildlife Management

Holdsworth Hall

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-2665 FAX: ()

E-mail:

BS Millsaps College

MS Mississippi State University

PhD University of Washington

Last update: 6/27/96

Courses Taught:

Anadromous fish biology and management.

Water-related Specialties

Anadromous fisheries restoration; behavioral ecology of fish; reproductive biology of fish; fish passage at dams; water conditions created by dams, pumped storage, etc.

Water-related Current Research

Anadromous fishery restoration; behavioral ecology of fish; reproductive biology of fish; fish passage at dams; conditions created by dams.



Labbe, Ronald

Dept. of Food Science

Chenoweth Lab

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-1021 FAX: (413) 545-1262

E-mail: rlabbe@foodsci.umass.edu

BS University of New Hampshire

MS University of Wisconsin

PhD University of Wisconsin

Last update: 3/16/96

Courses Taught:

Food-borne diseases; Junior Year Writing; Food Microbiology

Water-related Specialties

Food-borne Disease Agents

Water-related Current Research

Physiology of *Clostridium perfringens*, a proposed indicator bacterium of water quality

Directory of Water Resources Expertise

Lanza, Guy R.

Environmental Sciences Program
112 Stockbridge Hall
University of Massachusetts/Amherst
Amherst, MA 01003-7240
Telephone: (413) 545-3747
E-mail: glanza@fnr.umass.edu

BS Fairleigh Dickinson University
MS University of Kentucky
PhD Virginia Polytechnic Institute

FAX: (413) 545-1977

Last update: 3/ 5/96

Courses Taught:

Aquatic Ecology; Environmental Microbiology; Aquatic Microbiology

Water-related Specialties

Environmental Microbiology; Ecotoxicology; Aquatic Ecology; Bioremediation; Ecology of Waterborne Diseases

Water-related Current Research

Bioremediation of Creosote Contaminated Water/Sediments/Soil
Accelerated Eutrophication in Aquatic Ecosystems
Microbial Enzyme Activities to Monitor Water Pollution



Larson, Joseph S.

The Environmental Institute
Blaisdell House
University of Massachusetts/Amherst
Amherst, MA 01003-0820
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E-mail: larson@tei.umass.edu

BS University of Massachusetts
MS University of Massachusetts
PhD Virginia Polytechnic Institute

FAX: (413) 545-2304

Last update: 3/18/96

Courses Taught:

Wetland ecology, International conservation

Water-related Specialties

Wetland ecology; evaluation and management; beaver behavior.

Water-related Current Research

Wetland ecology; evaluation and management; beaver behavior.

Directory of Water Resources Expertise

Leschine, Susan

PhD University of Pittsburgh

Microbiology

Morrill Science Center - North

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-0673

FAX: (413) 545-1578

Last update: 4/ 4/96

E-mail: suel@microbio.umass.edu

Courses Taught:

General Microbiology; Microbiology Laboratory; Microbial Biotechnology

Water-related Specialties

Anaerobic Degradation of Cellulose and Other Naturally Occurring Polymers; Cellulase Enzyme Systems; Fuels from Biomass

Water-related Current Research

Microbial Degradation of Naturally Occurring Organic Material in Anaerobic Sediments



Levin, Robert E.

Department of Food Science

Chenoweth Laboratory

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-0187

FAX: (413) 545*1212

Last update: 3/ 7/96

E-mail:

Courses Taught:

Toxicology

Advanced Food Microbiology

Methods in Toxicological Analysis

Principles of Environmental Toxicology & Chemistry

Water-related Specialties

Fish pathogenic bacteria

Microbial degradation of fish wastes

Fermentation of fish wastes

Water-related Current Research

Shellfish depuration

Detection of fish pathogenic bacteria in holding water

Detection of toxicants in water

Directory of Water Resources Expertise

Lewis, Lawrence A.

Graduate School of Geography
950 Main Street
Clark University
Worcester, MA 01610-1477
Telephone: (508) 793-7291
E-mail: llewis@vax.clark.edu

BA Antioch College
MS Northwestern University
PhD Northwestern University

FAX: (508) 754-7999

Last update: 5/21/96

Courses Taught:

Land Degradation caused by both water (overland flow) and human activities.

Water-related Specialties

Land degradation

Water-related Current Research

Land Degradation
Environmental Geomorphology
Physical Geography
Environment and Development



Lindzen, Richard S.

Dept. of Earth, Atmos. & Planetary Sci.
54-1416
Massachusetts Institute of Technology
Cambridge, MA 02139
Telephone: (617) 253-2432
E-mail:

PhD Harvard University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

None at present.

Water-related Specialties

Cloud parameterization; surface water hydrology; monsoon dynamics.

Water-related Current Research

Cloud parameterization; surface hydrology; monsoon dynamics.

Directory of Water Resources Expertise

Lockwood, Linda

Dept. of Plant & Soil Sciences
Stockbridge Hall
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-2609

FAX: ()

E-mail: linlock@pssci.umass.edu

BS Columbia University
MA Columbia University Teachers
MA Columbia University
PhD Columbia University

Last update: 3/ 1/90

Courses Taught:

Case studies in environmental advocacy; methods in environmental advocacy; methods in environmental education; historical and philosophical foundations of environmentalism; technology and human values.

Water-related Specialties

Ecology; environmental advocacy; environmental education techniques; evaluation and planning methodology.

Water-related Current Research

None reported at present.



Long, Sharon C.

Civil and Environmental Engineering
Marston Hall
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-0685

FAX: (413) 545-2202

E-mail: long@ecs.umass.edu

BS University of Massachusetts
MS University of North Carolina
PhD University of North Carolina

Last update: 3/18/96

Courses Taught:

Environmental Engineering Analysis
Hazardous Waste Management
Solid Waste Management
Bioremediation

Water-related Specialties

Biological Phenomenon in Engineered Systems

Water-related Current Research

Directory of Water Resources Expertise

Lovley, Derek R.

Microbiology
Morril Science Center IV
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545*9651
E-mail: dlovley@microbio.umass.edu

PhD Michigan State University

FAX: (413) 545-1578

Last update: 3/27/96

Courses Taught:

Microbial Ecology

Water-related Specialties

Microbiology and geochemistry of aquatic sediments
Microbiology and geochemistry of groundwater

Water-related Current Research

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



Ludlam, Stuart D.

Dept. of Zoology
Morrill Science Center
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-0990
E-mail:

BA Cornell University

PhD Cornell University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Animal diversity; human ecology; ecology; limnology; biological limnology; lake modeling; evolution; origin of life.

Water-related Specialties

Limnology (freshwater ecology); nutrient geochemistry and paleolimnology (past history of lakes); sedimentary pigment analysis; modes & patterns of sedimentation; SEM analysis of lake sediments.

Water-related Current Research

Sedimentary pigment geochemistry as a lake management tool; history of productivity in Massachusetts lakes; sedimentation rates and patterns in Fayetteville, NY lake; use of Cs-137 and Pb-210 in dating;

Directory of Water Resources Expertise

SEM analysis of varied lake sediments.

Maass, Arthur

Dept. of Government
G-7 Littaner

Harvard University
Cambridge, MA 02138

Telephone: (617) 495-2121

E-mail:

AB John Hopkins University

MPA Harvard University

PhD Harvard University

FAX: (413) 495-0438

Last update: 3/ 1/90


Courses Taught:

Conflict, growth, justice, and democracy in arid environments; public investment; techniques for relating economic objectives, engineering analysis, and governmental planning.

Water-related Specialties

Systems analysis; law, government, and policy; land use in arid regions.

Water-related Current Research

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

Mabee, Stephen B.

Dept. of Geosciences
Morrill Science Center

University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-4814

E-mail: sbmabee@geo.umass.edu

PhD University of Massachusetts

FAX: (413) 545-1200

Last update: 3/16/96

Courses Taught:

Applied Environmental Geology

Hydrogeology

Advanced Hydrogeology

Water-related Specialties

Planning/Land Use; Geophysics; Transport of Bacteria in Tropical Aquifers

Water-related Current Research

Groundwater-Surface Water Interactions; Use of Hydrochemistry to Understand Groundwater Flow; Flow & Transport in Fractured Media; Use of Geophysics for Environmental Applications;

Directory of Water Resources Expertise

Contaminant Transport; Modeling; Zone II Water Supply Analysis

Madsen, Ole S.

Dept. of Civil Engineering
Rm. 48-319

Massachusetts Institute of Technology
Cambridge, MA 02139

Telephone: (617) 253-2721

FAX: ()

MS Technical Univ. of Denmark

ScD MIT

Last update: 3/ 1/90

E-mail:

Courses Taught:

Fluid dynamics; introduction to coastal engineering; sediment transport and coastal processes.

Water-related Specialties

Coastal and oceanographic engineering; turbulent boundary layer flows; sediment transport; free-surface flow.

Water-related Current Research

Wave-induced longshore currents and sediment transport; wave attenuation through bottom friction.



Male, James W.

Dept. of Civil & Environmental Engineer.
Marston Hall

University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-5391

FAX: (413) 545-2840

BS Union College

PhD Johns Hopkins University

Last update: 3/16/96

E-mail: male@zonker.ecs.umass.edu

Courses Taught:

Water Resources Engineering
Stochastic Environmental Analysis
Water Resources Systems Analysis

Water-related Specialties

Water Resources Systems Analysis
Water Resource Engineering, Planning and Management
Water Resources Policy Formulation

Water-related Current Research

Criteria for Contaminated Sediment
Impact of Land Use Practices on Water Quality

Directory of Water Resources Expertise

Mallett, John C.

Biological Science Department
611 Olsen Hall
University of Massachusetts/Lowell
Lowell, MA 01854

Telephone: (508) 934-2860

FAX: ()

Last update: 3/ 1/90

E-mail:

BS Holy Cross College

MS University of Rhode Island

PhD University of Rhode Island

Courses Taught:

Limnology.

Water-related Specialties

Freshwater ecology; impact of power generation on freshwater ecology.

Water-related Current Research

Distribution and abundance of heavy metals in the Merrimack drainage basin; effects of Aswan High dam on aquatic snail genus *Bulinus*; potential threat of schistosomiasis (water-borne) in Jordan.

Marks, David H.

Civil & Environmental Engineering
Rm. 1-123
Massachusetts Institute of Technology
Cambridge, MA 02139

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FAX: (617) 258-6099

Last update: 6/ 3/96

E-mail: dhmarks@mit.edu

BCE Cornell University

MS Cornell University

PhD John Hopkins University

Courses Taught:

Environmental Remediation Engineering; Mechanical Engineering

Water-related Specialties

Multi-objective Planning

Water-related Current Research

Water Resource Systems in Developing Countries

Directory of Water Resources Expertise

Directory of Water Resources Expertise

Martin, John A.

Dept. of Landscape Arch & Regional Plan.

Hills North

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-6624

FAX: ()

Last update: 3/ 1/90

E-mail:

ARI BA Brighton College of Art

M L A

Harvard University

Courses Taught:

Environmental history and theory; graduate design studio; aspects of the designed environment; graduate terminal projects studio.

Water-related Specialties

Land use implications; recreational uses; oceanshore and lakeside communities (history and development); visual consequences of changes in water use.

Water-related Current Research

None reported at present.



Mathisen, Paul P.

Civil and Environmental Engineering

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Worcester Polytechnic Institute

Worcester, MA 01609

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FAX: (508) 831-5808

Last update: 4/ 2/96

E-mail: mathisen@wpi.edu

BS University of Massachusetts

MS MIT

PhD MIT

Courses Taught:

Hydraulics; Hydrology; Geohydrology; Contaminant Transport; Stream, Lake & Estuarine Analysis

Water-related Specialties

Environmental Fluid Mechanics; Contaminant Transport; Environmental Modeling

Water-related Current Research

Determination of Aquifer Parameters Using Tracer Tests

Bottom Boundary Layers for Spectral Wave Currents

Directory of Water Resources Expertise

Mattson, Mark D.

PhD Cornell University

Water Resources Research Center

Blaisdell House

University of Massachusetts/Amherst

Amherst, MA 01003-0820

Telephone: (413) 545-1007

FAX: (413) 545-2304

Last update: 3/22/96

E-mail: mmattson@tei.umass.edu

Courses Taught:

Ecology of Polluted Waters

Water-related Specialties

Water Quality

Trend Analysis

Water-related Current Research

Acid/base Chemistry

Lake Management



McCarthy, James J.

BS Gonzaga University

PhD University of California-SD

Dept. of Biology

111 MCZ Laboratory

Harvard University

Cambridge, MA 02138

Telephone: (617) 495-2330

FAX: (617) 495-0506

Last update: 3/ 1/90

E-mail:

Courses Taught:

Biological oceanography; plankton ecology.

Water-related Specialties

Plankton nutrition.

Water-related Current Research

Nitrogen and phosphate cycling in the sea; Gulf Stream rings; nitrogen nutrition of phytoplankton.

Directory of Water Resources Expertise

McElroy, Michael B.

Center for Earth & Planetary Physics
Hoffman Lab, 20 Oxford Street
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Telephone: (617) 495-2351
E-mail:

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

FAX: (617) 496-8839

Last update: 7/18/96

Courses Taught:

Introduction to Environmental Science: Atmosphere, Ocean and Biosphere
Environmental Science and Public Policy: Global Change

Water-related Specialties

Dissolved gases; biogeochemistry.

Water-related Current Research

Nitrous oxide oceanic and atmospheric measurement program; experimental studies of the sources of atmospheric COS, CS₂, and CH₃C1.



McLaren, J. Philip

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Quincy, MA 02170
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E-mail:

AB Bethel College
MA Western Michigan University
PhD Western Michigan University

FAX: (617) 786-0174

Last update: 5/27/96

Courses Taught:

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

Water-related Specialties

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

Water-related Current Research

Coraline Algae Distribution in Belizean Lagoons.
Distraction of Vegetation by Human Foot Traffic in Tropical Lagoons.

Directory of Water Resources Expertise

McLaughlin, Dennis B.

Department of Civil Engineering
Ralph Parsons Laboratory
Massachusetts Institute of Technology
Cambridge, MA 02139

Telephone: (617) 253-7176

FAX: ()

E-mail:

BS Purdue University

MS Princeton University

PhD Princeton University

Last update: 3/ 1/90

Courses Taught:

Water resource systems.

Water-related Specialties

Stochastic hydrology; groundwater hydrology and contamination; real-time prediction and control.

Water-related Current Research

Design of groundwater monitoring networks; modeling and prediction of contaminant transport in heterogeneous subsurface environments; characterization of unsaturated zone sites for disposal of low-level radioactive waste.



Mei, Chiang C.

Civil & Environmental Engineering
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MIT

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BS National Taiwan University

MS Stanford University

PhD California Inst. of Technology

Last update: 3/16/96

Courses Taught:

Mathematical Analysis in Engineering

Topics in Environmental Fluid Mechanics

Wave Dynamics in Coastal & Oceanographic Engineering

Water-related Specialties

Coastal Engineering, Sediment Transport, Flow Deformation and Diffusion Underground

Water-related Current Research

Air Venting and Air Sparging in Vadose Zone

Diffusion and Dispersion in Waves

Nonlinear Ocean Waves

Directory of Water Resources Expertise

Mitchell, Ralph

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BA Trinity College
MS Cornell University
PhD Cornell University

FAX: (617) 496-1471

Last update: 3/22/96


Courses Taught:

Introduction to water pollution microbiology; introduction to environmental microbiology; Advanced approach to environmental microbiology.

Water-related Specialties

Microbially-induced corrosion; biodegradation of cultural artifacts.

Water-related Current Research

Freshwater and Marine Biology and Ecology; Water Quality Characteristics and Problems; Environmentally Acceptable Control of Zebra  Mussels

Mitchell, Robert C.

Department of Geography
950 Main Street
Clark University
Worcester, MA 01610
Telephone: (508) 793-7562
E-mail:

BA College of Wooster
MA Northwestern University
PhD Northwestern University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

None at present

Water-related Specialties

Contingent valuation of water benefits; Surface and Groundwater

Water-related Current Research

None at present

Directory of Water Resources Expertise

Directory of Water Resources Expertise

Moeller, William B.

Civil & Environmental Engineering
One University Avenue
University of Massachusetts/Lowell
Lowell, MA 01854
Telephone: (508) 934-2287
E-mail: moeller@woods.uml.edu

BS Villanova University
MS University of Connecticut
PhD University of Connecticut

FAX: (508) 934-3052

Last update: 3/26/96

Courses Taught:

Water Resources Engineering; Water Resources Management; Surface Water Quality Monitoring;
Small and Alternative Wastewater Treatment

Water-related Specialties

Small and Alternative Wastewater Treatment; Environmental Regulations Relating to Small and
Alternative Wastewater Treatment and Disposal; and Wetlands Protection

Water-related Current Research

Alternative Onsite Wastewater Treatment and Disposal System Performance; Long-term Performance
of Infiltrator System Onsite Wastewater Disposal Trench; Advanced Integrated Wastewater Pond
System (AIWPS) Operation in Cold Climate Conditions



Morel, Francois M. M.

Department of Civil Engineering
Rm 48-423 Ralph Parsons Lab.
Massachusetts Institute of Technology
Cambridge, MA 02139
Telephone: (617) 253-3726
E-mail:

MS California Institute of Tech.
PhD California Institute of Tech.

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Aquatic science; aquatic particles.

Water-related Specialties

Water chemistry; modeling of water quality; trace elements; micro-organism interactions.

Water-related Current Research

Directory of Water Resources Expertise

Mullin, John R.

LARP, Center for Economic Development
109 Hills North
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: (413) 545-6636

FAX: (413) 545-1772

E-mail: j.mullin@dpc.umassp.edu

BA University of Massachusetts

MCP University of Rhode Island

MSB Boston University

PhD University of Waterloo

Last update: 4/ 2/96

Courses Taught:

Tools and Techniques of Planning

Industrial Development

Water-related Specialties

Waterfront Development

Revitalization of Mills Along Rivers

Water-related Current Research

Land-use Along Waterfronts

Setbacks from Streams

The Tensions Between Water-based Industry and Water-based Tourism



Murcott, Susan

Environmental Engineering

Parsons Lab 48-108

Massachusetts Institute of Technology

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E-mail: murcott@mit.edu

Last update: 3/19/96

Courses Taught:

Water-related Specialties

Water-related Current Research

Directory of Water Resources Expertise

Nepf, Heidi M.

Civil & Environmental Engineering

48-425

Massachusetts Institute of Technology

Cambridge, MA 02139

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FAX: (617) 258-7009

Last update: 3/20/96

E-mail: hmnepf@mit.edu

BS Bucknell University

MS Stanford University

PhD Stanford University

Courses Taught:

The Physics of Fluid Transport; Fluids Laboratory; Mixing in Inland and Coastal Waters; Stratified Flow Dynamics

Water-related Specialties

Turbulence and Mixing in Natural Flows

Physical Processes Affecting the Fate of Contamination in Surface Waters

Physical Limnology

Water-related Current Research

Hydrodynamic controls on Metals Transport in Small Lake Systems

The Generation of Turbulence by Open Water Wave Breaking

Hydrodynamic Effects of Vegetation in Coastal Regions



Newman, William A.

Department of Geology

PhD Syracuse University

Northeastern University

Boston, MA 02115

Telephone: (617) 337-3176

FAX: ()

Last update: 3/ 1/90

E-mail:

Courses Taught:

Hydrogeology; Geomorphology

Water-related Specialties

None listed

Water-related Current Research

None listed

Directory of Water Resources Expertise

Newsted, John

Forestry & Wildlife Management
217 Holdsworth Hall
University of Massachusetts/Amherst
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E-mail: newsted@forwild.umass.edu

BS Michigan State University
MS Michigan Technological Univ.
PhD Michigan State University

FAX: (413) 545-4358

Last update: 3/16/96

Courses Taught:

Environmental Biology; Aquatic Toxicology; Environmental Risk Assessment

Water-related Specialties

In Vitro Toxicity Screens for Aquatic Species; Fate & Transport of Chemical Contaminants in Marine and Freshwater Environments; Effect of Organic Pollution on Reproduction in Aquatic Species; Molecular Mode of Actions of PCBs and Dioxins in Aquatic Organisms; Ecological Risk Assessment

Water-related Current Research

Structure Activity Models for Organic Chemicals in Green Algae; Effect of Endocrine Disruptors in Winter Flounder; Molecular Events in Molecular Disruption in Rainbow Trout; Effect of Contaminants on Vernal Ponds in Massachusetts



Newton, Robert M.

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BA University of New Hampshire
MA SUNY-Binghamton
PhD University of Massachusetts

FAX: (413) 585-3786

Last update: 4/ 2/96

Courses Taught:

Groundwater geology.

Water-related Specialties

Groundwater geology; Aqueous geochemistry.

Water-related Current Research

Non-point Source Pollution Assessment in the Westfield River Watershed
Impact of Logging and Forest Fires on Water Quality in the Peyette Lake Watershed, Idaho

Directory of Water Resources Expertise

O'Brien, Arnold L.

Earth Sciences Department
Olney Science Center
University of Massachusetts/Lowell
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E-mail: obrien@woods.ulowell.edu

AB Syracuse University
MS Syracuse University
PhD Boston University

Last update: 3/27/96

Courses Taught:

Hydrogeology; Geomorphology; Glacial & Pleistocene Geology; Regional Hydrology

Water-related Specialties

Hydrology of wetlands; mechanisms of the runoff process; Groundwater.

Water-related Current Research

None at present



Olmez, Ilhan

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Cambridge, MA 02139
Telephone: (617) 253-2995 FAX: (617) 253-7300
E-mail:

BS
MSc
PhD

Last update: 7/ 5/94

Courses Taught:

Nuclear Techniques in Environmental Analysis

Water-related Specialties

Source Identification and Apportionment
Mercury

Water-related Current Research

Toxic Metal Mass Balance in Watershed/Airshed Systems
Biological and Physical Sediment Transport
Groundwater Contamination

Directory of Water Resources Expertise

Ortiz, Jesse S.

Environmental Health Sciences
Morrill Science Center-North, 239
University of Massachusetts/Amherst
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E-mail: j.ortiz@schoolph.umassp.edu

BS Northwestern University
MS Loyola University
MPH University of Michigan
PhD University of Michigan

FAX: (413) 545-0964

Last update: 4/ 2/96

Courses Taught:

Aquatic Microbiology
Principles of Environmental Health

Water-related Specialties

Giardia
Cryptosporidium

Water-related Current Research

Giardia and Drinking Water



Ott, Charles R.

Dept. of Civil Engineering
125 Engineering Building
University of Massachusetts/Lowell
Lowell, MA 01854
Telephone: (508) 934-2280
E-mail:

BSC University of Washington
MSC University of Washington
PhD University of Washington

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Industrial waste treatment; physical/chemical treatment processes; sanitary engineering; water resources design.

Water-related Specialties

Waste treatment; septage treatment and disposal.

Water-related Current Research

Septage treatment and disposal; heavy metals.

Directory of Water Resources Expertise

Paris, David

Water Treatment, Research Committee
1581 Lake Shore Road
New England Water Works Association
Manchester, NH 03109

Telephone: (603) 624-6482 FAX: (603) 628-6030
E-mail: 102225.3665@compuserve.com

Last update: 4/ 2/96

Courses Taught:

Water-related Specialties

Drinking Water Treatment, Storage, Residuals Disposal

Water-related Current Research

Backwash Investigations
Granular Carbon Reactivation and Research



Patterson, III, William A.

Dept. of Forestry & Wildlife Management
Holdsworth Hall
University of Massachusetts/Amherst
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BS University of Maine
MS University of Minnesota
PhD University of Minnesota

Last update: 3/ 1/90

Courses Taught:

None reported at present.

Water-related Specialties

Paleoecology; paleolimnology; forest hydrology and watershed management; plant-water-soil relationships.

Water-related Current Research

Historical aspects of acid rainfall on terrestrial and aquatic ecosystems.

Directory of Water Resources Expertise

Pearson, Myrna S.

Chemistry Department

Wheaton College

Norton, MA 02766

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FAX: (508) 285-8278

Last update: 6/25/96

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AB University of Pennsylvania

AM Columbia University

PhD Columbia University

Courses Taught:

Current Problems in Environmental Chemistry

Can We Win the Race to Save the Planet?

Organic Chemistry

Advanced Organic Chemistry

Water-related Specialties

Eutrophication, Acid Rain Effects, Metals and Volatile Organic Compounds in the Aquatic Environment, Pond/Lake/Reservoir Restoration Projects

Water-related Current Research

Water Quality Studies of the Water Bodies in Norton, Massachusetts, including the Norton Reservoir and Barrowsville Pond



Pechenik, Jan A.

Biology Department

Tufts University

Medford, MA 02155

Telephone: (617) 381-3199

FAX: ()

Last update: 3/ 1/90

E-mail:

BA Duke University

MS MIT Oceanographic Institute

PhD University of Rhode Island

Courses Taught:

Marine biology; topics in comparative animal physiology; the dynamics of animal populations.

Water-related Specialties

Marine invertebrate reproductive biology.

Water-related Current 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.

Directory of Water Resources Expertise

Peckol, Paulette

Dept. of Biological Sciences
Smith College
Northampton, MA 01063
Telephone: (413) 585-3844
E-mail:

BA Wittenberg University
PhD Duke University

FAX: (413) 585-3786

Last update: 3/ 1/90

Courses Taught:

Marine ecology; seminar-topics in marine ecology; ecology & geology of the New England coast.

Water-related Specialties

Physiological and population ecology of seaweeds.

Water-related Current Research

Effects of nutrient loading on seaweed growth and production; genetic variation of northern and southern populations of the green alga, *Codium fragile*; physiological differentiation of seaweeds under varying light environments.



Perkins, Frank E.

Department of Civil Engineering
Rm 48-317 Ralph Parsons Lab.
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E-mail:

SB M.I.T.
MS MIT
PhD MIT

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Engineering hydrology.

Water-related Specialties

Hydrologic and hydraulic modeling; dam safety.

Water-related Current Research

Directory of Water Resources Expertise

Peterson, Bruce J.

Ecosystems Center
Marine Biological Laboratory
Woods Hole, MA 02543
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E-mail: peterson@lupine.mbl.edu

BS Bates College
PhD Cornell University

FAX: (508) 457-1548

Last update: 3/20/96

Courses Taught:

None reported at present.

Water-related Specialties

Carbon and nutrient cycling; biogeochemistry

Water-related Current Research

Phosphorus Fertilization of Tundra Rivers.

Nitrogen Cycling in the Parker River Estuary.

Organic Matter and Nutrient Export from Continents to Oceans.



Platt, Rutherford H.

Dept. of Geosciences
232 Morrill Science Center
University of Massachusetts/Amherst
Amherst, MA 01003
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E-mail: platt@geo.umass.edu

BS Yale University
JD University of Chicago
PhD University of Chicago

FAX: (413) 545-1200

Last update: 3/19/96

Courses Taught:

Water's edge; river basin management; land use control.

Water-related Specialties

Floodplain and coastal zone management.

Water Supply Management

Wetlands Policy

Water-related Current Research

Regional management of metropolitan flood plains.

Sustainable Watershed Management: Comparative Study of Boston and New York

Federal Disaster Assistance and Land Use Management

Directory of Water Resources Expertise

Portnoy, John

Cape Cod National Seashore
National Biological Service
Wellfleet, MA 02667

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FAX: (508) 349-6748

BA University of Rhode Island
MS University of Massachusetts
PhD Boston University

Last update: 3/18/96

Courses Taught:

Water-related Specialties

Wetland nutrient cycling
Fe and S cycling in salt marshes
Vernal pond chemistry and ecology

Water-related Current Research

Biogeochemical effects of salt marsh diking, drainage and restoration
Fate of groundwater-borne nitrogen in an estuarine salt marsh



Potter, Thomas L.

Food Science
Chenoweth Laboratory
University of Massachusetts/Amherst
Amherst, MA 01003

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FAX: (413) 545-5910

BS University of Maine
MS Cornell University
PhD University of Massachusetts

Last update: 3/27/96

Courses Taught:

Soil Chemistry; Analysis of Petroleum Contaminated Soil and Water; Organic Chemical Analysis

Water-related Specialties

Environmental, Petroleum and Food Chemistry; Chromatography; Mass Spectrometry

Water-related Current Research

Possible Uptake of PCBs by Fiddlehead Ferns
Total Petroleum Hydrocarbon Analysis of Soil and Water
Detection of Estrogenic Compounds in Natural Waters
Environmental Analysis of Methyl tert-butyl ether

Directory of Water Resources Expertise

Raposa, Raymond

Executive Director

64 Dilla Street

New England Water Works Association

Milford, MA 01757-1104

Telephone: (508) 478-6996

FAX: (508) 634-8643

Last update: 4/ 2/96

E-mail:

Courses Taught:

Water-related Specialties

Risk Assessment as Applied to the Regulation of Public Water Supplies

Water-related Current Research

Demonstration Testing of Corrosion Control Treatment

Data Collection/Case Studies of Corrosion Control Treatment

Secondary Impacts

Electrotechnologies for Inactivation of Zebra Mussels,

Cryptosporidium, and Oxidation of Organic Matter



Reckhow, David A.

Dept. of Civil & Environmental Engineer.

Marston Hall

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-5392

FAX: (413) 545-2202

Last update: 3/16/96

E-mail: reckhow@ecs.umass.edu

BS Tufts University

MS Stanford University

PhD University of North Carolina

Courses Taught:

Analysis of pollutants; water quality modeling, Aquatic chemistry

Water-related Specialties

Water treatment technology; fate and transport of pollutants in the aquatic environment.

Water-related Current Research

Modeling chlorination byproducts in streams; ozone treatment for drinking water; simple methods for analysis of chlorination byproducts; nucleophilic dehalogenation of chlorination byproducts.

Directory of Water Resources Expertise

Rex, Michael A.

Biology Department
Harbor Campus
University of Massachusetts/Boston
Boston, MA 02125
Telephone: (617) 287-6678
E-mail: rex@umbsky.cc.umb.edu

AB University of Indiana
PhD Harvard University

FAX: (617) 287-6650

Last update: 3/18/96

Courses Taught:

Urban estuaries; introduction to research techniques I; theories of community structure.

Water-related Specialties

Marine benthic ecology; sampling methods; statistical analysis; interpretation of benthic communities.

Water-related Current Research

Deep-sea benthic ecology.



Robbat, Jr., Albert

Chemistry
62 Talbot Avenue
Tufts University
Medford, MA 02155
Telephone: (617) 627-3474
E-mail:

PhD Pennsylvania State University

FAX: (617) 627-3443

Last update: 4/ 2/96

Courses Taught:

N/A

Water-related Specialties

Methods development for GC, GC-MS, and LC measurements of EPA listed organics

Water-related Current Research

Development of mobile GC-MS for the detection of volatile and semivolatile organics on hazardous waste sites

Directory of Water Resources Expertise

Robinson, Allan R.

Division of Applied Sciences
Pierce Hall
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-2819
E-mail: robinson@pacific.harvard.edu

BA Harvard University
MA Harvard University
PhD Harvard University

FAX: (617) 495-5192

Last update: 3/22/96

Courses Taught:

Physical oceanography; geophysical fluid dynamics; fluid dynamics.

Water-related Specialties

Ocean current dynamics; circulation modeling.

Water-related Current Research

North Atlantic Ocean dynamics; Gulf Stream; Open ocean modeling; numerical models; storm surges.



Robinson, William E.

Environmental Sciences Program
100 Morrissey Boulevard
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E-mail: robinsonw@umbsky.cc.umb.edu

BA Boston University
MS Northeastern University
PhD Northeastern University

FAX: (617) 287-7474

Last update: 6/25/96

Courses Taught:

Aquatic Toxicology, Current Issues in Toxicology, Environmental Physiology, Issues in Environmental Sciences, Marine Biology

Water-related Specialties

Aquatic Toxicology, Ecotoxicology, Environmental Physiology, Malacology

Water-related Current Research

Mechanisms of Metal Toxicity and Transport in Marine Bivalve Molluscs; Vanadium Accumulation and Tunichrome Synthesis in Ascidiaceans

Directory of Water Resources Expertise

Rogers, Peter Philip

Division of Applied Sciences
116 Pierce Hall
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-4889
E-mail:

BE Liverpool University
MS Northeastern University
PhD Harvard University

FAX: ()

Last update: 3/ 1/90

Courses Taught:

Technology choice in water resources development; water policy: economic and technological foundations.

Water-related Specialties

Systems analysis; economic planning; urban planning.

Water-related Current Research

Master planning for water in Bangladesh; evaluation of systems analysis applications in water resources; national water policy in the United States.



Rosen, Peter S.

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14 Holmes Hall
Northeastern University
Boston, MA 02115
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E-mail: prosen@lynx.neu.edu

BA Potsdam College
MS University of Massachusetts
PhD College of William and Mary

FAX: (617) 373-4378

Last update: 3/16/96

Courses Taught:

Water in Environmental Planning; Environmental Geology; Coastal Processes; Geology of Oceans and Coasts; Marine Geology; Sedimentation;

Water-related Specialties

Impacts of Sea Level Rise and Coastal Flooding; Evolution of Glaciated Coasts; Barrier Beach Processes; Coarse Sediment Transport

Water-related Current Research

Coastal Wetlands; Flood Control; Landuse Planning; Beach Processes; Shallow Marine Processes

Directory of Water Resources Expertise

Rosenberg, Fred A.

Biology Department
414 Mugar Hall, 360 Huntington Avenue
Northeastern University
Boston, MA 02115

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FAX: (617) 373-3724

Last update: 10/10/95

E-mail: froseberg@lynx.neu.edu

BA New York University

PhD Rutgers University

Courses Taught:

Environmental Microbiology; Microbial Physiology; Medical Microbiology

Water-related Specialties

Water-related Current Research

Bacteriology of Bottled Waters

Antibiotic Resistance of Pseudomonas in Bottled and Mineral Water

Interfamilial Transfer of Helicobacter from Drinking Sources



Ryan, David K.

Chemistry
1 University Avenue
University of Massachusetts/Lowell
Lowell, MA 01854

Telephone: (508) 934-3698

FAX: (508) 934-3569

Last update: 4/ 3/96

E-mail: ryand@woods.uml.edu

BS LeMoyne College

PhD University of New Hampshire

Courses Taught:

Environmental Chemistry; Marine Chemistry; Marine Geochemistry; Advanced Physical Chemistry;
Quantitative Analysis; Instrumental Analysis; Advanced Analytical Chemistry

Water-related Specialties

Fluorescence of Humic Materials; Metal Bioaccumulation by Marine Bivalves; Speciation of Metals
in Aquatic Systems; Analytical Method Development of Environmental Applications

Water-related Current Research

Surfactant Flushing of Subsurface Media for Enhanced Pump & Treat of Hydrocarbon Contaminant;
Atmospheric Deposition of Pollutants to Massachusetts Bay; Speciation of Metals in Aquatic Systems;
Humic Material Fluorescence for Measuring Binding of Inorganic & Organic Contaminants; Marine
Mussel Transplant Studies for Monitoring & Modeling Bioavailable Metals; Elemental Tracers for

Directory of Water Resources Expertise

Monitoring Sewage Discharges to Aquatic Systems

Schmidt, Donald J.

Dept. of Biology

Fitchburg State College

Fitchburg, MA 01420

Telephone: (508) 665-3369

FAX: (508) 665-3578

Last update: 3/19/96

E-mail: dschmidt@fsc.edu

BA University of Northern Iowa

MA University of Northern Iowa

PhD University of Iowa

Courses Taught:

Limnology; environmental health, general botany.

Water-related Specialties

Diatoms as water quality indicators.

Water-related Current Research

Effects of acid rain on seed germination; effects of acid rain on soil fungi; manipulation of an aquatic system to improve alkalinity.



Searcy, Karen B.

Biology Department

Herbarium

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-2275

FAX: ()

Last update: 9/22/95

E-mail: ksearcy@bio.umass.edu

MA UCLA

PhD University of Massachusetts

Courses Taught:

New England Flora

Water-related Specialties

Pollination biology

Water-related Current Research

Floristics and vegetation analysis of forested wetlands and oxbow ponds.

Directory of Water Resources Expertise

Segall, Burton A.

Civil Engineering
College of Engineering
University of Massachusetts/Lowell
Lowell, MA 01854
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BS Polytechnic Inst. of Brooklyn
MS University of North Carolina
MPH University of North Carolina
PhD NYU

FAX: (508) 934-3052

Last update: 4/ 2/96

Courses Taught:

Fluid mechanics; Environmental chemistry; Dynamics

Water-related Specialties

Water and wastewater treatment

Water-related Current Research

Chromium Recycling Tanning

Removal of Gasoline Hydrocarbons from Fine-grained Soils with Electro-chemical Technology

Incorporation of Coal Tar & Cyanide Complexed Oxide Box Wastes into Cold-mix Road Paving Materials



Sengupta, Suku

Civil & Environmental Engineering
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North Dartmouth, MA 02747-2300
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E-mail: ssengupta@umassd.edu

FAX: (508) 999-8964

Last update: 3/18/96

Courses Taught:

Water Quality Engineering; Physical-chemical Treatment Processes in Environmental Engineering;
Hazardous Waste Management

Water-related Specialties

Physical-chemical Processes for Water and Wastewater Treatment (Adsorption, Ion-exchange, and Membrane-based Processes); Surface Water Quality Modeling; Groundwater Hydrology and Contaminant Transport Modeling

Water-related Current Research

Surface Water Quality Studies in Cranberry Bogs in Southeastern Massachusetts

Treatment of Nitrogen-containing Wastewater by Using Electric Gradient and Composite Ion-exchange

Directory of Water Resources Expertise

Membranes

Shiaris, Michael P.

Dept. of Biology
Harbor Campus
University of Massachusetts/Boston
Boston, MA 02125

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BS University of Maryland

MS Colorado State University

PhD University of Tennessee

Last update: 3/22/96

Courses Taught:

Microbial Ecology; Microbial Physiology; Coastal Ecology; Microbiology

Water-related Specialties

Aquatic microbiology.

Water-related Current Research

Microbial degradation of aromatic hydrocarbons in estuaries; Diversity and population dynamics of PAH-degrading bacteria; DNA fingerprinting of fecal contamination indicators (*E. coli*).



Stevens, Thomas H.

Dept. of Resource Economics
226 Draper Hall
University of Massachusetts/Amherst
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E-mail: tstevens@resecon.umass.edu

BS Cornell University

MS University of Delaware

PhD Cornell University

Last update: 3/16/96

Courses Taught:

Energy, resource and environmental economics.

Water-related Specialties

Resource economics; benefit-cost analysis.

Water-related Current Research

Value of salmon reintroduction program, groundwater and wetland valuation.

Directory of Water Resources Expertise

Switzenbaum, Michael S.

Dept. of Civil & Environmental Engineer.

Marston Hall

University of Massachusetts/Amherst

Amherst, MA 01003

Telephone: (413) 545-5393

FAX: (413) 545-2202

Last update: 3/16/96

E-mail: switzenbaum@ecs.umass.edu

BA Johns Hopkins University

MS Cornell University

PhD Cornell University

Courses Taught:

Environmental engineering; biological processes; solid and hazardous waste management.

Water-related Specialties

Wastewater engineering; applied microbiology.

Water-related Current Research

Biosolids Management



Taylor, J. Kenneth

Department of Biology

Westfield State College

Westfield, MA 01086

Telephone: (413) 572-5674

FAX: ()

Last update: 3/20/96

E-mail:

BSE Bridgewater State

MA Columbia University

Courses Taught:

Conservation; General Ecology; Environmental Biology; Marine Biology

Water-related Specialties

Acid rain effects; Aquatic and marine biology; Water management

Water-related Current Research

Testing local waters for acid and buffering capacity as part of River Watch Program

Directory of Water Resources Expertise

Thomas, Cassie

Rivers and Special Studies

15 State Street

National Park Service

Boston, MA 02109

Telephone: (617) 223-5014

E-mail: cassie_thomas@nps.gov

BS Principia College

MSc Dalhousie University

MSL Vermont Law School

FAX: (617) 223-5164

Last update: 3/18/96

Courses Taught:

Water-related Specialties

Relationship Between Streamflow and Water Quality

Wildlife Habitat (HEP) etc. for Policy Decisions Regarding Consumptive Use

Nutrient Dynamics

Relationship Between Land Use and Water Quality Parameters

Water-related Current Research

Water Resources Study of Sudbury, Assabet & Concord Rivers



Tobiason, John E.

Civil & Environmental Engineering

Marston Hall

University of Massachusetts/Amherst

Amherst, MA 01003

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BS University of New Hampshire

MSE University of North Carolina

PhD Johns Hopkins University

FAX: (413) 545-2202

Last update: 3/22/96

Courses Taught:

Physical and chemical treatment processes; design of water/wastewater and hazardous waste treatment systems; processes at the particle/water interface; hydraulics; water supply and wastewater collection design.

Water-related Specialties

Particles in water-coagulation, filtration; surface chemistry; drinking water treatment.

Water-related Current Research

Effect of particle size on filtration performance; effect of ozonation on coagulation/flocculation and filtration; water quality modeling in Quabbin Reservoir.

Directory of Water Resources Expertise

Trincherro, Peter J.

Environmental Laboratory
Barre Falls Dam

U.S. Army Corps of Engineers
Hubbardston, MA 01452

Telephone: (508) 928-4711

E-mail:

BA Providence College

MS Providence College

CAG University of Massachusetts

FAX: (508) 928-5494

Last update: 3/22/96

Courses Taught:

Independent study; fish population ecology.

Water-related Specialties

Fish/aquatic invertebrate inventories; standing crop biomass determination; habitat assessment; analysis of water quality data.

Water-related Current Research

Generation of freshwater biological data to develop a five-year management plan.

Rainfall studies re: Bacteriological contamination



Tyson, Julian F.

Department of Chemistry
Box 34510

University of Massachusetts/Amherst
Amherst, MA 01003-4510

Telephone: (413) 545-0195

E-mail: julian.tyson@chemistry.umass.edu

BSc University of Aberdeen

PhD University of London

FAX: (413) 545-4846

Last update: 5/26/94

Courses Taught:

Instrumental analysis; Flow Injection Techniques in Analytical Chemistry; Analytical Chemistry; Flow Injection Analysis

Water-related Specialties

Development of New Methods of Analysis for Trace Inorganic and Related Organometallic Species
Methods based on Volatile Analyte Derivatives and a Variety of Atomic Spectrometrics including Plasma Source Mass Spectrometry and Graphite Furnace Atomic Absorption Spectrometry

Water-related Current Research

Determination of Trace Elements and their Speciation by Atomic Spectrometry Techniques.

Development of New and/or Improved Analytical Methods for Trace Element Analysis

Determination of As, Hg, Se, Pb, Cd by Chemical Vapor Generation.

Directory of Water Resources Expertise

New Methods for Anions Based on Flow Injection Reagent Introduction Without Dilution

Uden, Peter C.

BSc University of Bristol (UK)

Dept. of Chemistry

PhD University of Bristol (UK)

Goessman Laboratory

University of Massachusetts/Amherst

Amherst, MA 01003-4510

Telephone: (413) 545-2293

FAX: (413) 545-4490

Last update: 3/19/96

E-mail: pcuden@chem.umass.edu

Courses Taught:

Analytical chemistry; instrumental analysis; chemical separation methods; applied analytical chemistry.

Water-related Specialties

Trace organic and inorganic analysis in water; chromatography; element specific atomic spectral detection; chemical speciation.

Water-related Current Research

Drinking water analysis; haloforms and other product organics produced by chlorination and other water treatment processes; humic materials in water and their reactions.



Valiela, Ivan

PhD Cornell University

Boston University Marine Program

Marine Biological Laboratory

Woods Hole, MA 02543

Telephone: (617) 548-3705 x515 FAX: ()

Last update: 3/1/90

E-mail: valiela@bio.bu.edu

Courses Taught:

Marine ecology.

Water-related Specialties

Ecology of salt marshes and mangroves; coastal ponds.

Water-related Current Research

Structure and function of salt marshes; decomposition in salt marshes-eutrophication; pollutants-heavy metals; land use; management of water resources.

Directory of Water Resources Expertise

Veneman, Peter L. M.

Dept. of Plant and Soil Sciences
19 Stockbridge Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-5215
E-mail:

BS Wageningen Agricultural Univ.
MS Univ. of Wisconsin-Madison
PhD Univ. of Wisconsin-Madison

FAX: (413) 545-3958

Last update: 9/25/95

Courses Taught:

Wetland delineation; Hydric Soils; Environmental Soil Science; Soil and Water Conservation; Introductory; Soil Science; Soils Classification

Water-related Specialties

Wetlands; Onsite sewage disposal; Heavy metals in soils

Water-related Current Research

Role of soils, vegetation and hydrology in wetland delineation
Iron cycling in New England landscapes
Alternative technologies in onsite sewage disposal



Vignaly, Vincent P.

Division of Watershed Management
180 Beaman Street
Metropolitan District Commission
West Boylston, MA 01583
Telephone: (508) 835-4816
E-mail: vincent.vignaly@watershed@mdc

BS
CE
PE

FAX: (508) 835-6018

Last update: 7/ 5/94

Courses Taught:

Water-related Specialties

On-site Sewage Treatment
Surface Water Quality
Stormwater Modeling/Sampling/Mitigation
BMP Implementation

Water-related Current Research

Stormwater Sampling/Testing/Interpretation
On-site Septic Systems
Stormwater Modeling - Application of HEC2, P8, SWMM for tributaries, Application of CE-QUAL-

Directory of Water Resources Expertise

W2.

Voelker, Bettina

Civil & Environmental Engineering

Room 48-419

Massachusetts Institute of Technology

Cambridge, MA 02139

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FAX: (617) 258-8850

Last update: 4/ 8/96

E-mail: voelker@mit.edu

BS MIT

MS MIT

PhD ETH Zurich, Switzerland

Courses Taught:

Aquatic Chemistry

Water-related Specialties

Speciation, Fate and Transport of Trace Elements in Aquatic Systems

Water-related Current Research

Iron and Copper Photo-Redox Chemistry in Surface Waters.

Metal Binding Properties of Humic Substances



Vogel, Richard M.

Civil and Environmental Engineering

113 Anderson Hall

Tufts University

Medford, MA 02155

Telephone: (617) 628-5000 4260

FAX: (617) 627-3994

Last update: 3/18/96

E-mail: rvogel@tufts.edu

BS University of Virginia

MS University of Virginia

PhD Cornell University

Courses Taught:

Hydrology and Water Resources; Water Resources Systems; Open Channel Hydraulics; Modeling; Environmental Systems; Environmental Statistics; Hydraulics

Water-related Specialties

Statistical Methods for Hydrologic and Environmental Data; Water Supply System Operations, Design, and Management; Hydrologic Modeling and Watershed Management; Regional Hydrologic Models

Water-related Current Research

Impacts of Climate Change on Water Resource Systems; Generalized Storage, Reliability, Yield, and Resilience; Relationships for Water Supply Systems; Regional Hydrologic Analysis of Floods and Droughts; Analysis of Censored Environmental Data; Regional Assessment of the Impacts of Climate Change

Directory of Water Resources Expertise

Walk, Marie-Francoise

Water Resources Research Center
Blaisdell House, Box 30820
University of Massachusetts/Amherst
Amherst, MA 01003-0820

Telephone: (413) 545-5531

FAX: (413) 545-2304

Last update: 4/ 2/96

E-mail: mfwalk@tei.umass.edu

BS Auburn University

MS Pennsylvania State University

Courses Taught:

Forest Hydrology


Water-related Specialties

Data Presentation Techniques of Scientific Data by Citizen Volunteers

Watershed Management for Resource Conservation

Water-related Current Research

Acid Rain Effects on Surface Waters

Citizen Volunteer Monitoring of Lakes and  Streams

Urban Runoff

Wallace, Gordon, Jr. T.

Environmental Science Program
Science Bldg, 1st floor - Harbor Campus
University of Massachusetts/Boston
Boston, MA 02125

Telephone: (617) 287-7447

FAX: (617) 287-7474

Last update: 4/ 2/96

E-mail: wallace@umbsky.cc.umb.edu

BS Antioch College

PhD University of Rhode Island

Courses Taught:

Chemistry of natural waters; Isotope Geochemistry; Seminar in Environmental Chemistry

Water-related Specialties

Chemistry and biogeochemistry of heavy metals in aquatic environments, especially the role of organics on metal speciation; surface active organics and metal-organic constituents in natural waters; atmospheric chemistry of metals.

Water-related Current Research

Directory of Water Resources Expertise

Parameters affecting metal transport in estuarine, coastal, and adjacent oceanic waters; metal-organic complexes in coastal waters.

Warnick, Rodney B.

Hotel, Restaurant & Travel Admin.

203B Flint Lab

University of Massachusetts/Amherst

Amherst, MA 01003-2710

Telephone: (413) 545-6629

E-mail: warnick@hrta.umass.edu

BS Frostburg State

MS University of Montana

MRP Pennsylvania State University

PhD Pennsylvania State University

FAX: (413) 545-1235

Last update: 3/16/96

Courses Taught:

Marketing and financial management of recreation services; regional planning studies; microcomputer applications in leisure service and resource management; club management; and hospitality advertising, promotion and merchandising.

Water-related Specialties

Recreational planning; tourism planning; recreation marketing and outdoor recreation trend analysis; recreation market analysis and consumer behavior related to recreation, sport and tourism activities.

Water-related Current Research

Historical trends in outdoor recreational activities; statewide comprehensive outdoor recreational plan-Massachusetts Outdoors; recreation trends toward the Year 2000; recreation activity trend monitoring specific to water-based activities.

Wei, Irvine W.

Civil & Environmental Engineering

420 SN, 360 Huntington Ave.

Northeastern University

Boston, MA 02115

Telephone: (617) 373-3368

E-mail: iwwei@neu.edu

PhD Harvard University

FAX: (617) 373-4419

Last update: 3/16/96

Courses Taught:

Environmental Chemistry; Environmental Analyses

Water-related Specialties

Advanced Oxidation Technology; Environmental Chemistry

Directory of Water Resources Expertise

Water-related Current Research
Catalyzed Oxidation of Trichlorophenol

White, Mary L.
Waterworks Planning Dept.
100 First Avenue
Mass. Water Resources Authority
Boston, MA 02129-2024
Telephone: (617) 242-7110 4319
E-mail:

BS Worcester Polytechnic Institute
MA Clark University

FAX: (617) 241-6499

Last update: 3/20/96

Courses Taught:

Water-related Specialties
Watershed Protection; Urban Water Resources Management; Salt Marsh Restoration; Inland and
Coastal Wetland Protection

Water-related Current Research
Ecological Risk Assessment

Wilcox, William

P.O. Box 1696
Cooperative Extension
Oak Bluffs, MA 02557
Telephone: (508) 693-0694
E-mail:

BS University of Massachusetts
PhM Columbia University

FAX: ()

Last update: 3/18/96

Courses Taught:
Introductory Geology

Water-related Specialties
Nutrient impacts on coastal salt water ponds

Water-related Current Research
Nutrient inputs to a coastal pond via groundwater
Monitoring of 6 coastal ponds

Directory of Water Resources Expertise

Directory of Water Resources Expertise

Willis, Cleve E.

Dept. of Resource Economics
Draper Hall
University of Massachusetts/Amherst
Amherst, MA 01003
Telephone: (413) 545-5708
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BA California State University
MS University of California
PhD University of California

FAX: (413) 545-5853

Last update: 3/16/96

Courses Taught:

Environmental Policy

Water-related Specialties

Environmental Economics
Economics of Water Quality

Water-related Current Research

Groundwater Protection in Mixed Landuse Aquifers; Use of GIS for
Protecting Groundwater.



Willmer, Ralph R.

Environmental Planning
60 Temple Place, Suite 410
McGregor & Shea
Boston, MA 02111
Telephone: (617) 338-6464
E-mail: rwillmer@aol.com

BS Syr.Coll. of Envir. Sci. & For
MA Tufts University

FAX: (617) 338-0737

Last update: 3/16/96

Courses Taught:

Watershed & Open Space Planning; Environmental Impact Assessment

Water-related Specialties

Watershed protection land use controls

Water-related Current Research

Watershed protection plan for the Wachusetts, Ware River and Quabbin watersheds

Directory of Water Resources Expertise

Wilson, Richard

Dept. of Physics
Harvard University
Cambridge, MA 02138

Telephone: (617) 495-3387 FAX: (617) 495-0916

E-mail: wilson@physics.harvard.edu

MA Oxford University

MA Harvard University

PhD Oxford University

Last update: 3/16/96

Courses Taught:

Risk Analysis in Engineering and Biological Systems

Water-related Specialties

Analysis of risk of pollutants.

Water-related Current Research

Risk analysis.



Winkler, Eric

Dept. of Plant & Soil Sciences
Stockbridge Hall
University of Massachusetts/Amherst
Amherst, MA 01003

Telephone: () FAX: ()

E-mail: ewinkler@pssci.umass.edu

Last update: 3/16/96

Courses Taught:

Water-related Specialties

Water-related Current Research

Directory of Water Resources Expertise

Wofsy, Steven C.

Div. of Applied Sciences
100A Pierce Hall, 29 Oxford St.
Harvard University
Cambridge, MA 02138
Telephone: (617) 495-4566
E-mail: scw@io.harvard.edu

BS University of Chicago
PhD Harvard University

FAX: (617) 495-9837

Last update: 5/27/96

Courses Taught:

Atmospheric Physics; Atmospheric Chemistry; Atmospheric and Oceanic Processes

Water-related Specialties

Atmospheric Chemistry
Atmosphere-Biosphere Exchange

Water-related Current Research

Tools and Techniques of Planning
Industrial Development



Xing, Baoshan

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Amherst, MA 01003
Telephone: (413) 545-5212
E-mail: bx@pssci.umass.edu

FAX: (413) 545-3958

Last update: 3/16/96

Courses Taught:

Environmental Soil Chemistry
Inorganic Contaminants in Soils

Water-related Specialties

Behavior of Heavy Metals and Organic Contaminants in Soils, Sediments and Aquifers
Risk Assessment in Use of Soil Chemistry

Water-related Current Research

Reduction of NO₃ and Pesticide Leaching to Groundwater
Interactions of Petrochemicals with Soil Mineral and Organic Components

Directory of Water Resources Expertise

Yuretich, Richard F.

Dept. of Geosciences
164 Morrill Science Center
University of Massachusetts/Amherst
Amherst, MA 01003-5280
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E-mail: yuretich@geo.umass.edu

BA NYU
MA Princeton University
PhD Princeton University

FAX: (413) 545-1200

Last update: 3/16/96

Courses Taught:

Aqueous and environmental geochemistry; sedimentary geochemistry.
Introductory Oceanography; Field Geology

Water-related Specialties

Hydrogeochemistry-river, ground, and rain water; sedimentology; paleolimnology; quarternary geology.

Water-related Current Research

Environment and History of Lake Baikal; Geochemistry of the East African Rift Valley Lakes; Problems of Groundwater Supply and Contamination.



Zajicek, O.T.

Chemistry
Box 34510 Lederle Graduate Research
University of Massachusetts/Amherst
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E-mail: zajicek@chem.umass.edu

BS Baldwin-Wallace College
MS Wayne State University
PhD Wayne State University

FAX: (413) 545-4490

Last update: 3/22/96

Courses Taught:

General Chemistry; Descriptive Inorganic Chemistry; Theoretical Inorganic Chemistry; Chemistry Honors

Water-related Specialties

The Inorganic Chemistry of Natural Waters, especially trace metal transport processes; Drinking Water Quality and its Treatment; Corrosion, especially in domestic plumbing systems; Analytical Method Development.

Water-related Current Research

Aluminum speciation in stream water and sediment pore water before and after additions of limestone to remediate acidification.
Pathway and rates of hydrolysis of the hexacyanoferrate(II) ion under the conditions of pH, temperature, sunlight, etc. found in natural water.

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