



## MACC Annual Environmental Conference--2012



### WORKSHOP DESCRIPTIONS

**Series A 9:45 a.m. – 11:00 a.m.**

#### **1. Managing White-Tailed Deer Populations in Massachusetts**

Overabundance of white-tailed deer has raised concerns among some communities in Massachusetts. Concerns include impacts of high deer densities on public health and safety, property damage, and plant and wildlife biodiversity. Values and impacts related to white-tailed deer will be discussed including successful strategies for managing deer at the community and municipal level.

Speakers: Thomas K. O'Shea, Assistant Director, Wildlife, MA Division of Fisheries and Wildlife

Thomas J. Rawinski, Botanist, US Forest Service

Moderator: Michele Grzenda, Conservation Agent, Weston; MACC Officer

#### **2. Defusing Landowner/Conservation Conflicts: Protecting Habitat for Endangered Species and Other Wildlife with Conservation Design**

Protecting habitat for endangered species and other wildlife can be done cost-effectively and creatively, meeting needs of landowners while protecting important natural resources. This program provides an overview of the revised MA Endangered Species Act regulations and the Eastern Box Turtle Conservation Plan. It will illustrate how local land use tools such as Open Space Residential Design can be applied in concert with state regulations to promote attractive, sustainable developments while protecting wetlands, water supplies, and important habitats.

Speakers: Eve N. Schluter, Ph.D., Endangered Species Review Biologist, Natural Heritage and Endangered Species Program, MA Division of Fisheries and Wildlife

Lori Erb, Turtle Conservation Biologist, Natural Heritage and Endangered Species Program, MA Division of Fisheries and Wildlife

E. Heidi Ricci, Senior Policy Analyst, Mass Audubon; MACC Officer

Moderator: Janice S. Stone, Conservation Agent, Town of South Hadley; MACC Director

### **3. Wetlands Monitoring and Assessment and Development of Water Quality Standards for Wetlands**

For the past several years, MassDEP has coordinated an effort to develop and implement a comprehensive Wetlands Monitoring and Assessment Program for Massachusetts. Working with the MA Office of Coastal Zone Management and University of Massachusetts Amherst, the team is developing innovative approaches for monitoring and assessing wetlands as well as evaluating whether surface water quality standards should be revised to better address wetlands. The approach involves landscape-based modeling (Conservation Assessment and Prioritization System) and intensive field research. Ultimately, MassDEP expects to use the program to avoid/reduce impacts of development on the wetlands, better focus and evaluate mitigation projects, and improve wetland conditions statewide through targeted restoration projects.

Speakers: Lisa Rhodes, Environmental Analyst, MassDEP Wetland Program  
Jan Smith, Coastal Habitat & Water Quality Manager, Massachusetts Office of Coastal Zone Management  
Scott Jackson, Extension Associate Professor, University of Massachusetts Amherst; MACC Director

Moderator: Brandon Faneuf, PWS, RPSS, Principal, Ecosystem Solutions, Inc.; MACC Director

### **4. Vernal Pools: Ecology, Protection and the Latest in Data Submittal** *(Double session—continued in Series B)*

The Vernal Pool Association will provide in-depth training on recognizing vernal pools and understanding their ecological functions and values. Vernal pool protection under the MA Wetlands Protection Act and other regulations will be thoroughly explored, and participants will gain insight that will help improve the effectiveness and defensibility of their Orders of Conditions. In the third half of the workshop, the MA Natural Heritage and Endangered Species Program (NHESP) will present their new on-line service, the Vernal Pool and Rare Species Information Collection and Management System. This new system will facilitate the reporting of certifiable vernal pools and rare species observations, and will allow for a more 'real-time' update of certified vernal pool data on MassGIS. It will also provide a means for direct notification to the observer by NHESP staff on the status of information submitted.

Speakers: Matthew R. Burne, Walden Woods Project  
Leo P. Kenney, Vernal Pool Association  
Sarah Haggerty, Information Manager, Natural Heritage and Endangered Species Program, MA Division of Fisheries and Wildlife

Moderator: Shep Evans, Broker and a Advisor, FRIDAY & CO. Real Estate

## **5. Trees, Paddlers and Wildlife: Safeguarding Ecological and Recreational Values on the River**

What (if anything) should be done about large branches and trees lying in the river? Should they be removed, pruned, relocated, or left undisturbed – and how do you know? What about other safety considerations? What is the appropriate balance between the competing desires of canoeists, kayakers, and other boaters, the interests of property owners and the needs of riverine wildlife for adequate food, nesting and cover? What is “large woody debris” in rivers and how does it improve water quality and control flooding downstream? This presentation describes ecological and other natural functions and values of living and dead trees located in and along rivers and streams, and the ongoing effort to encourage paddlers, property owners/managers, Department of Public Works directors and others to retain that vegetation wherever possible unless it poses a significant threat to public safety.

Speaker: Russ Cohen, Rivers Advocate, Massachusetts Department of Fish and Game

Moderator: Jo-Anne Burdin, Conservation Commissioner, Templeton; MACC Director

## **6. Regulatory Takings: The Outer Limits of Governmental Power**

MACC again presents its popular workshop on “Regulatory Takings.” This is an area of court-made law (not statutory) dealing with constitutional limits on how far government control of land uses can go. The US Supreme Court and the MA Supreme Judicial Court have ruled many times in precedent– setting cases. Several of these rulings involve wetlands protection; many are about project disapprovals; some included MACC as “friend of the court.” All indicate that local board rules, practices and specific actions, in addition to the proven facts and applicable law, make real differences in who wins or loses. This workshop will make common sense of the cases most important to Conservation Commissions, ending with a list of practical tips for making your decisions, staying out of legal trouble, dealing with threats of “takings” cases against you, responding to lawsuits against your municipality, and working with town counsel or city solicitor to maximize the chances of winning in court.

Speaker: Gregor I. McGregor, Esq., Senior Partner, McGregor & Associates, P.C., MACC Director

Moderator: William C. Henchy, Esq., Law Offices of William C. Henchy, P.C.; MACC Director

## **7. Creative Approaches to Financing Your Commission**

This workshop will focus on basic and creative ways to fund Conservation Commission operations and related activities. Topics include: how to use fees from wetland fund accounts, revolve accounts, and using “contributions” from developers who commit violations. Commissioners will also learn how the MA Procurement Act, MGL Chapter 30B, applies to them, such as in hiring consultants to review wetland permit applications. The legal background in citations for each law governing these techniques will be discussed.

Speakers: Kevin Paicos, Town Manager, Foxborough

George A. Hall, Jr., Esq., Partner, Anderson & Kreiger, LLP

Moderator: Kathleen Connolly, Esq., Counsel, Murtha Cullina LLP; MACC Officer

## **Series B 11:15 a.m. – 12:30 p.m.**

### **8. Biomass Energy: Impacts on Global Warming and Massachusetts Forests**

Efforts to develop alternatives to fossil fuels have focused on a number of renewable energy sources, including biomass. One potentially abundant source of biomass for energy and Massachusetts is wood. This workshop will focus on the role that biomass can play in combating global warming, the potential supply of biomass from Massachusetts forests and how public policy, including the award of renewable energy credits, can affect both biomass energy and the state's forests.

Speakers: Lynn DiTullio, P.E. Energy Engineer  
David Kittredge, Extension Forester and Professor, University of Massachusetts Amherst  
Robert Rizzo, Bioenergy Program Manager, MA Department of Energy Resources  
Moderator: Scott Jackson, Extension Associate Professor, University of Massachusetts Amherst;  
MACC Director

### **9. Using Conservation Restrictions in Conservation Development**

The main purpose of conservation development (and variations of it including Open Space Residential Development and Natural Resource Protection Zoning) is to preserve significant open space resources. The most effective tool for protecting the open space in such developments is a statutory conservation restriction (CR). However, using CRs raises a range of practical and legal issues in drafting and administering bylaws and regulations. This workshop will focus on how municipal boards can ensure effective and efficient land protection while allowing appropriate development. It will cover technical issues involving conservation analysis, ensuring the protection of conservation values, drafting of bylaws and CRs, and ownership and management of protected land.

Speakers: Joel Russell, Planning Consultant and Attorney at Law  
Robert A. Levite, Attorney at Law  
Moderator: E. Heidi Ricci, Senior Policy Analyst, Mass Audubon; MACC Officer

### **10. MassDEP Wetlands Regulatory Reform**

This workshop will explain MassDEP's wetlands regulation reform initiative that is currently underway and additional proposed regulation revisions that will be subject to public review and comment as part of the promulgation process during the spring of 2012. MassDEP's Commissioner's Regulation Reform and other revisions will include a proposal for a General Permit for eligible work in the buffer zone, incorporation of the ocean plan for marine spatial planning, improving permitting for wetland restoration projects, stormwater regulation amendments, new coastal and inland definitions, renewable energy limited project and a variety of other proposed amendments.

Speakers: Lealdon Langley, Wetlands and Waterways Program Director, MassDEP  
Michael Stroman, Wetlands Program Chief, MassDEP  
Moderator: Kenneth F. Whittaker, Ph.D., Esq., Partner, Gonzalez Saggio & Harlan LLP; MACC Director

### **11. Stormwater Quality Treatment BMPs: A Structural Stormwater Best Management Practices Overview**

This workshop will provide a basic understanding of the evaluation, selection, and effectiveness of structural stormwater Best Management Practices (BMPs) incorporated into stormwater management systems for compliance with the pretreatment and treatment water quality requirements of Standards 1, 4, 5 and 6 of the MA Stormwater Management Standards. The presentation will review the classes of water quality BMPs, the BMP selection process, site suitability/BMP suitability associated with the land use of the site and the location of the site near critical areas, and the effectiveness of various structural BMPs to remove pollutants.

Speakers: Joshua J. Alston, P.E., LEED AP BD + C Project Manager, Nitsch Engineering  
Sandra F. Brock, P.E., CFM, LEED AP BD + C, Chief Engineer, Nitsch Engineering; Member,  
Grafton Conservation Commission

Moderator: Cynthia O'Connell, Conservation Agent, Town of Dedham; Senior Landscape Architect,  
Beals Associates, Inc.

### **12. Introduction to Hydraulics & Sediment Transport with Relevant Applications to Conservation Commissions**

An introduction to the mechanics of sediment transport is presented. As a cornerstone in any wetlands protection effort, understanding the physical processes involved with soil and sediment movement will assist the attendee in effectively recognizing and mitigating situations before they become problems. Applications of these processes will be discussed. In particular, a case study will explore the process of stream incision which disconnects streams from their former floodplains and adjacent wetlands and results in the conversion of floodplains to upland areas.

Speaker: Heidi M. Davis, PWS, Environmental Analyst, MassDEP Northeast Regional Office  
William A. Shaheen, Ph.D., PE, Analytical Engineering, Inc; Conservation Commissioner,  
Granby

Moderator: Brandon Faneuf, PWS, RPSS, Principal, Ecosystem Solutions, Inc; MACC Director

### **13. Update on the Open Meeting and Conflict of Interest Laws: New Changes in the Past Year**

Last year's program on this topic showed attendees how the Attorney General's Office Division of Open Government and the State Ethics Commission were planning to interpret the new law and its regulations, which became effective in 2010, on any complaints that might be brought under the laws. Since that time, there have been several determinations made by both offices on complaints filed against municipal boards and Commissions under the new laws and regulations. These decisions shed light on how the state is interpreting the laws and regulations and how Conservation Commissions can act to ensure compliance. This program will review the requirements under the Open Meeting Law and the state ethics law and highlight the latest issues and the guidance available. Also, the panel will discuss the new regulations issued by the Attorney General permitting remote participation and how this can be adopted in your community.

Speakers: James B. Lampke, Esq., Principal, Law Offices of Lampke & Lampke  
Kathleen Connolly, Esq., Counsel, Murtha Cullina LLP; MACC Officer

Moderator: Patrick C. Garner, Wetland Scientist, Principal, Patrick C. Garner Company;  
MACC President

## Series C 1:45 p.m. – 3:00 p.m.

### 14. Conservation Land Encroachments: Addressing Them Effectively

Have you ever been walking on conservation land and noticed that a neighbor's yard waste, lawn, shed, or swing set appears to be on town land? How do you confirm the encroachment and approach the neighbor? Most importantly, how do you rectify the situation? This workshop will address precisely these questions. Using case studies, the presenters will outline many tools and techniques available to apply in a variety of encroachment scenarios.

Speakers: Michele Grzenda, Conservation Agent, Weston; MACC Officer  
Jennifer Steel, Consultant; MACC Director

Moderator: Kenneth F. Whittaker, Ph.D., Esq., Partner, Gonzalez Saggio & Harlan LLP;  
MACC Director

### 15. Mapping Vulnerable Wetlands for Better Water Protection and Environmental Planning

MassDEP received a grant from the US Environmental Protection Agency to define and map “vulnerable wetlands” in three pilot communities of the upper Charles River watershed that are experiencing significant stormwater pollution. As part of this grant we developed geographic information system (GIS) maps as planning tools to strengthen the ability of communities to locate vulnerable wetlands and determine the appropriate placement for and type of stormwater control options to protect vulnerable wetlands while achieving compliance with stormwater requirements for pollutant reduction in the Upper Charles River Watershed. Learn what vulnerable wetlands are, why they are important to your community, and the “10 Rules of Thumb to Protect Vulnerable Wetlands from Stormwater Impacts.” Learn how GIS maps can be used to: 1. Review new or retrofit stormwater management system design proposals that come before your Commission for approval. 2. Provide a cost effective, holistic approach to comply with the MS4/TMDL stormwater requirements. 3. Proactively plan for long term sustainability of critical resources in your community.

Speakers: Nancy Lin, Environmental Analyst, MassDEP Wetlands and Waterways Program  
Alice Smith, Wetlands Data Manager and eDEP/WIRE Coordinator, MassDEP

Moderator: Brenda Kelly, Vice President, Strategic Communications at Atmospheric &  
Environmental Research; Bedford Energy Task Force; MACC Director

### 16. Sustainable Strategies for Reducing Vista Conflicts

Using sustainable strategies for vista management can reduce unnecessary, time consuming conflicts. Managing resource areas as systems introduces an entirely new portfolio of useful management models, which reduce conflict by eliminating the need for trimming. Three management model case studies will be provided: 1. native replacement model; 2. invasive vegetation replacement model; 3. habitat transition model.

Speakers: Gordon Peabody, Director, Safe Harbor Environmental Management  
Seth Wilkinson, MALD, President, Wilkinson Ecological Design, Inc.

Moderator: Seth Wilkinson, MALD, President, Wilkinson Ecological Design, Inc.

**17. An Update on Several Stormwater Permits in Massachusetts: What Conservation Commissioners Need to Know**

The US Environmental Protection Agency will soon issue a new Phase II Stormwater Permit for Massachusetts and the Residual Designation Authority (RDA) Permit for the Upper Charles River watershed that will likely include more prescriptive requirements designed to improve the effectiveness of the municipal stormwater management programs and require property owners of existing development to provide better stormwater treatment. This session will describe the requirements of the new Phase II and RDA permits and explain how it will impact review of stormwater management plans and submittals under the Wetland Protection Act.

Speakers: Anne Kitchell, LEED AP, Senior Environmental Planner, Horsley Witten Group, Inc.  
Mark Voorhees, Residual Designation Authority (RDA) Permitting – Upper Charles River Basin, Region One of US Environmental Protection Agency

Moderator: David Gorden, CPSS, CWS, Wetlands Program Manager / Permitting Specialist, Thunderchase Environmental

**18. Transportation Projects and Ecosystem Connectivity**

Fish and wildlife need to be able to move, but in many places our built infrastructure, including roads, is in their way. Commissions now have a number of tools that can be used to protect and enhance landscape connectivity via project review and permitting, the coordination of local volunteer efforts and proactive engagement transportation and regional planning officials. This workshop will cover: Mass River and Stream Crossing Standards; Road-Stream Crossing Assessment; Prioritization (including Critical Linkages project); culvert replacement and wildlife crossing structures (including design considerations), and working with regional planning agencies, MA Department of Transportation and local Departments of Public Works.

Speakers: Jane Winn, Executive Director, Berkshire Environmental Action Team  
Alison Bowden, Freshwater Program Director, The Nature Conservancy, Massachusetts Chapter  
Scott Jackson, Extension Associate Professor, University of Massachusetts Amherst; MACC Director

Moderator: Ingeborg Hegemann, P.W. S., Vice President, BSC Group, Inc.; Conservation Commissioner, Stow

**19. Climate Change Strategies for Conservation Commissions: Wetland Migration Buffer Zones and Larger Design Storms**

Climate change is expected to result in sea level rise of 1 – 2 meters over the next century, in increases of ambient temperature, changes in precipitation patterns, more intense storm events. Sea level rise will result in horizontal (landward) migration of coastal wetlands and expansion of freshwater wetlands (due to the associated rise in water tables in coastal areas) Incorporating a buffer zone that would allow for this wetland boundary migration to occur could protect and preserve future wetland functions and values. Larger, more intense storms are also expected and already being observed, increasing stormwater discharges into wetlands. Larger design storms are warranted in developing appropriate stormwater management systems. This presentation will give an overview of the range of climate change that Massachusetts is predicted to experience, describe how that could impact freshwater systems including wetlands, and provide illustrations that show how coastal and freshwater wetlands are likely to migrate. It will also provide suggested regulatory approaches to addressing these climate change considerations under the jurisdiction of Conservation Commissions.

Speakers: Scott W. Horsley, Principal, Horsley Witten Group, Inc.  
Vandana Rao, Ph.D., Assistant Director for Water Policy, Executive Office of Energy and Environmental Affairs

Moderator: Tim Purinton, Director, Division of Ecological Restoration, MA Department of Fish and Game; MACC Director

**20. Basics of Freshwater Plant Identification (*Double Session – continued in Series D*)**

Commission review of wetland delineations requires at least basic recognition of plant species found in wetlands and the adjacent buffer zone. This double-session will introduce field characters used in plant identification and the key features of some common plants of swamps, wet meadows, marshes and bogs. A slide presentation will be followed by a hands-on session with live and pressed plant materials.

Speakers: Sally Zielinski, Ph.D., **Botanist**/Environmental Journalist; MACC Officer  
Amy Ball, Project Manager, Senior Wetlands Scientist, Horsley Witten Group, Inc.,  
MACC Director  
Karro Frost, PWS, Senior Scientist, Senior Botanist, New England Environmental, Inc.

Moderator: Nicola Cataldo, Mass Certified Horticulturalist, Cavicchio Greenhouses; Conservation Commissioner, Framingham

## **21. Fluvial Geomorphology Basics: Understanding a River's Form and Function**

Rivers are a vital part of many wetlands throughout Massachusetts, yet their form and function are often poorly understood. This presentation discusses basic fluvial terminology and key concepts of fluvial geomorphology including water and sediment flux, channel dimensions and planform, and channel change. We will discuss the importance of natural fluvial functions including erosion, flooding, and deposition. We will also discuss the importance of understanding the basics of fluvial geomorphology for Conservation Commissioners and practitioners. Finally, we will discuss some of the impacts of Tropical Storm Irene and the geomorphic reasons the impacted rivers changed course, flooded fields and towns, and generally led to wide-spread erosion and infrastructure damage.

Speakers: Nick Nelson, Fluvial Geomorphologist, Inter-Fluve, Inc.  
Beth Lambert, River Restoration Program Coordinator, Division of Ecological Restoration, MA Dept. off Fish and Game

Moderator: Patrick Garner, Wetland Scientist, Principal, Patrick C. Garner Company; MACC President

**Series D 3:15 p.m. – 4:30 p.m.**

## **22. How to Save Your Town from Death by 1000 Lots: Open Space Design**

This workshop will discuss patterns of development contributing to loss of open space and cover the basics of Open Space Design and Natural Resource Protection Zoning, including looking at some model bylaws. We will also discuss incentives to adoption, likely impacts, and limits of Open Space Design/Natural Resource Protection Zoning.

Speakers: Kurt Gaertner, Municipal Assistance Director, MA Executive Office of Energy and Environmental Affairs  
Celia Riechel, Land and Forest Program Coordinator, Division of Conservation Services, MA Executive Office of Energy and Environmental Affairs

Moderator: Tim Purinton, Director, Division of Ecological Restoration, MA Department of Fish and Game; MACC Director

## **23. Big Dam = Big Challenges? Lessons Learned from the Briggsville Dam Removal Project**

Conservation Commissions across the Commonwealth are reviewing, and often partnering on, more dam removals than ever. Regardless of the scale of your proposed project, comparable examples of past success are sometimes hard to find. This presentation will provide the audience with a thorough description of the scoping, design, permitting, implementation, and monitoring for one of the largest dam removals ever undertaken in Massachusetts. The focus of the talk will be on the ecological and infrastructure challenges addressed, and the regulatory considerations made on the path to success.

Speakers: Nick Wildman, Priority Projects Coordinator, Division of Ecological Restoration, MA Department of Fish and Game

Moderator: Brandon Faneuf, PWS, RPSS, Principal, Ecosystem Solutions, Inc; MACC Director

#### **24. Weed Warriors: Battling Early Detection Invasive Species**

Learn about two exciting partnerships involved with harnessing volunteer energies in battling invasive species in Massachusetts and the important role Conservation Commissioners can play in helping these battles be more effective. Ted Elliman and Liz Duff share years of experience coordinating projects involving volunteers in invasive species management. Together they will discuss: volunteer recruitment, targeting and managing early-detection invasives, and the roles Conservation Commissioners can play at each stage of these efforts. Case studies stem from the Sudbury-Assabet-Concord River Watershed Cooperative Invasive Species Management Area and the North Shore's "Great Marsh" Region. Attendees will learn about extensive resources now available in a Perennial Pepperweed Control Handbook available on line.

Speakers: Ted Elliman, Vegetation Management Coordinator, New England Wild Flower Society  
Sarah Janson, Invasive Species Coordinator, Parker River National Wildlife Refuge  
Moderator: Seth Wilkinson, MALD, President, Wilkinson Ecological Design, Inc.

#### **25. The Electric Transmission System: Maintenance, Construction and Permitting**

With almost 3000 miles of wire, the electric transmission system is the backbone that supplies power to every municipality and household in Massachusetts. These lines are located within rights-of-way across a multitude of resource areas including: wetland resource areas, historic areas, archaeological sites, national parks, contaminated sites, conservation land, endangered species habitat, Article 97 land, drinking water protection zones, filled tidelands, military bases, public streets and homeowners' backyards. This workshop will provide attendees with an overview of how the systems are constructed and maintained, the types of equipment used, scheduling issues, permitting issues and what to expect when work is done in your communities.

Speakers: Kevin McCune, Senior Environmental Engineer, NSTAR Electric & Gas  
Daniel Rukakoski, PWS, RSS, Senior Environmental Scientist, Tighe and Bond  
Moderator: Brenda Kelly, Vice President, Strategic Communications at Atmospheric & Environmental Research; Bedford Energy Task Force; MACC Director

#### **26. Using Landscape-based Assessments to Protect Wildlife Habitat & Restore Ecosystems**

In 2011, the University of Massachusetts Amherst completed its first comprehensive, statewide assessment of ecological integrity using the Conservation Assessment and Prioritization System (CAPS). This is an ecosystem-based approach for assessing the ecological integrity of lands and waters and subsequently identifying and prioritizing land for habitat and biodiversity conservation. Learn more about CAPS and how it can be used for conservation planning and decision-making at the local, regional and statewide level.

Speaker: Scott Jackson, Extension Associate Professor, University of Massachusetts Amherst;  
MACC Director  
Moderator: Ingeborg Hegemann, P.W. S., Vice President, BSC Group, Inc.; Conservation  
Commissioner, Stow

## **27. Erosion and Sediment Control: Beyond Hay Bales and Silt Fence**

What's the difference between erosion prevention and sediment control? Ensuring adequate protection for wetlands and waterways during construction typically involves more planning and preparation than installing a line of hay bales. This workshop aims to provide an overview of available methods for preventing and controlling sedimentation ranging from pre-construction planning, construction-phase erosion and sediment control best management practices (BMPs), innovative methods for controlling runoff, and tips for achieving compliance on an active site. Proper installation and maintenance of available BMPs will be discussed.

Speaker: Jason Lederer, CPESC, LEED AP, Senior Water Resource Specialist, BSC Group, Inc.

Moderator: Michael F. Clark, P.E. CPESC, LEED-AP, Principal, Satuit Consulting Inc.



## ***Fundamentals for Conservation Commissioners***



### UNIT DESCRIPTIONS 9:45 a.m. – 12:15 p.m.

#### **Unit 5. Wetlands: Their Functions and Values** *(limited to 80)*

This unit focuses on: common vegetated wetlands in Massachusetts: scientific versus regulatory wetlands definitions, functions, characteristics and watershed context; performance standards and buffer zones.

Instructor: Michael Howard, PWS, CWS, Principal, Manager of Ecological Services Group, Epsilon Associates, Inc.  
Assistant: Charles J. Katuska, Conservation Agent, Town of Holliston and Principal, CJK Conservation Consulting; MACC Director

#### **Unit 7. Open Space Planning and Protection Techniques** *(limited to 80)*

This unit covers: establishing goals and objectives; inventory of local natural resources; selecting parcels; working with landowners; conservation restrictions; funding and grants

Instructor: Robert Wilber, Director of Land Protection, Mass. Audubon; Trustee, Massachusetts Land Trust Coalition  
Assistant: Ross Povenmire, Director of Conservation, Planning Board Administrator and Community Preservation Committee Agent, B oxford

### 1:30 p.m. – 4:00 p.m.

#### **Unit 6. Writing Effective Orders of Conditions** *(limited to 80)*

This unit covers: protecting interests of the Act, boilerplate and special conditions, denials and appeals, amendments and extensions and Certificates of Compliance.

Instructor: Mark Stinson, Circuit Rider, MassDEP – Western Regional Office  
Assistant: Janice S. Stone, Conservation Agent, Town of South Hadley; MACC Director

#### **Unit 8. Managing Conservation Lands: Inventoried, Goals and Conflicts** *(limited to 80)*

This unit focuses on: resource evaluation, management plans, and management case studies (e.g. invasives, trails, grasslands, agriculture and beavers).

Instructor: Laura Mattei, Director of Stewardship, Sudbury Valley Trustees  
Assistant: Jo-Anne Burdin, Conservation Commissioner, Templeton; MACC Director