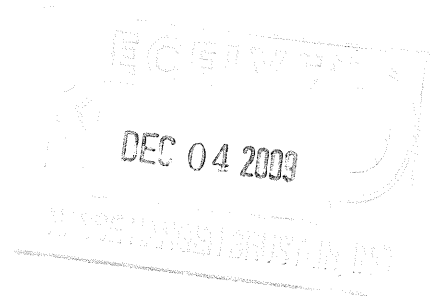


Michael W. Klemens, LLC  
POB 432  
Falls Village, CT 06031

December 3, 2009

Mr. Michael Libertine/Mr. Dean Gustafson  
Vanasse, Hangen and Brustlin, Inc.  
54 Tuttle Place  
Middletown, CT 06457



Dear Mr. Libertine and Mr. Gustafson:

At your request I have conducted a review of the presence/potential presence of spring salamander, *Gyrinophilus porphyriticus* on the proposed telecommunication tower construction site (SBA Towers II, LLC, Site ID CT 11709, Site Name Barkhamsted—44 Gavitt Road, Barkhamsted, CT). This review was prompted by a letter the VHB received on 17 August 2009 from Ms. Julie Victoria indicating that the NDDB (Natural Diversity Data Base) had records of spring salamander from the vicinity of the project site.

The upper reaches of the Farmington River drainage are the epicenter of distribution of spring salamanders in Connecticut. The towns of Barkhamsted and Hartland have multiple occurrences of this State-threatened species (Klemens, 1993: Amphibians and Reptiles of Connecticut and Adjacent Regions). Since the publication of my 1993 book, additional records of this species have been collected in northwestern Granby, in the Salmon Brook drainage which is tributary to the Farmington River. The subject parcel lies in the Cherry Brook drainage which is also tributary to the Farmington River. Although spring salamanders have not yet been reported from this drainage basin, the topography of the Cherry Brook headwaters area, and its proximity to other headwaters areas known to contain spring salamanders, made the potential for this species to occur on the subject parcel a reasonable line of inquiry.

There were several questions that I attempted to resolve by field investigation. The first was whether spring salamanders occurred on the subject parcel and in the off site drainages that may be affected by the proposed activities related the construction and maintenance of a telecommunications tower. As spring salamanders are often very difficult to document the next question was whether there was suitable habitat for spring salamanders on the subject parcel and whether activities related the construction and maintenance of the telecommunications tower could adversely impact habitat suitable for spring salamanders. And finally, if spring salamanders or their habitat were present, what mitigations would be necessary to ensure that the activities related to the construction and maintenance of the telecommunications tower would not adversely affect the species or its habitat.

The watercourse habitats on site were investigated for the presence of habitat conducive to spring salamanders. Spring salamanders require seepage fed perennial watercourses usually situated in mature forests and ravines. Often spring salamander habitats are characterized by the presence of perched, high elevation swamps, which create the cold spring water conditions required by this species. Spring salamanders do not occur in seasonal and intermittent watercourses, or in watercourses that are degraded by pollutant loading, flashiness, and thermal spiking.

Areas of suitable habitat on the site are very marginal. There is a small area of wooded swamp between the access road crossing and the western field. Although the upstream portions of this intermittent watercourse have been re-routed around the western field, and the downstream portions have been impounded below the road (see discussion wetland flags 56-57), there is one area within this wetland that has perennial seepage areas on the slopes on the western border of the wetland. This is located in the vicinity of wetland flags 14-21. Dusky salamanders (*Desmognathus fuscus*) occurred in this seepage area (voucher specimens collected = MWK 19278-19280) and striped phase redback salamanders (*Plethodon cinereus*) were found in the woods surrounding the seepages (voucher specimens collected = MWK 19281-19284). Vegetation typical of the wooded swamp areas on the site included red maple and yellow birch in the over-story, eastern hemlock and tupelo in the mid-story, and winterberry, cinnamon fern, clearweed, halberd teartumb, poison ivy, and sphagnum moss all common in the shrub and herb layer.

Downstream of the intermittent watercourse—immediately below the road/outfall pipe was a small impounded area at wetland flags 56-57. This pool was intensively dip-netted (20+ sweeps) to capture salamander larvae as spring salamanders frequently congregate in these plunge pool habitats. However, this pool did not possess the characteristics of a plunge pool habitat and no salamander larvae of any stream dwelling species were collected. A single spotted salamander (*Ambystoma maculatum*) larva was collected (voucher specimen collected = MWK 19285). Sub-adult green frogs (*Rana clamitans*) were very abundant in this pool (voucher specimens collected = MWK 19286-19290). This impoundment has more characteristics of a cryptic vernal pool than a seepage plunge pool. Gustafson (*pers. comm.*) reported both spotted salamander and wood frog (*Rana sylvatica*) egg masses in this pool earlier in the season. The outflow (intermittent) from this pool was completely dry. In summary this entire area of wetland and watercourse encompassed by wetland flags 1-21 and 48-64 is intermittent, with some impounded water below the road and at wetland flags 10-11. There is one small area of perennial seepage. This overall reach of wetlands and watercourses does not contain sufficient perennial water to support spring salamanders. The area is primarily an intermittent watercourse system.

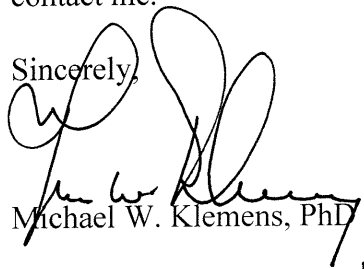
The eastern wetland finger (wetland flags 30-47) was examined. There was no standing water at all in this system which would classify it as intermittent. I pulled a large embedded rock up and there was some water about a foot below the ground surface as well as a juvenile dusky salamander (voucher specimen collected = MWK 19291). This area of intermittent watercourse and wetland is not suitable for spring salamanders because of the lack of a perennial seepage fed hydrology.

A large headwaters wetland lies below the steep outcrop (southern end of Washington Hill) where the proposed location of the cell tower is indicated. This wetland is about 500 feet east of the subject property, and the topography between the cell tower and the wetland is a steep cliff with talus and bedrock outcroppings which is heavily forested. The large wooded swamp valley is rich in perennial seepages along the wetland's western boundary (below Washington Hill). The wetland has permanent water features, complex micro-topography, deep mucky soils, abundant pooled water and low velocity flows to the south—this is a headwater wetland of Cherry Brook. This wetland has the correct configuration of ecological elements to be appropriate for spring salamander use. Fortunately, this wetlands area is well-separated spatially from the proposed cell tower site so there should be no impacts from the construction of the tower to this extremely high quality perennial seepage fed wetland system. Several unstriped phase redback salamanders were found on the talus slope area of Washington Hill—between the proposed cell tower site and the wetland (voucher specimens = MWK 19295-19296). In the woodlands on the crest of Washington Hill three of the rare and geographically localized erythristic phase redback salamanders were collected (voucher specimens = MWK 19292-19294).

In conclusion, the proposed placement of a cell tower on the southern end of Washington Hill as proposed will not have adverse impacts to spring salamander habitat. The access road as proposed uses an existing roadbed with ample width to accommodate the construction traffic needed to access the site and to service the cell tower post-construction. Standard best management practices should be employed to protect the wetlands from sedimentation and erosion on the portions of the roadway that that lie within 100 feet of the wetland/watercourse area. The only potential habitat for spring salamander lies to the east of the site—more than 500 feet from the proposed activities and separated from the site by heavily forest, steep, rocky slopes. The proposed cell tower site is set back and slightly behind the highest point of the hill so run-off should be able to be effectively detained and managed at the construction site.

If I can provide any further assistance to your permitting efforts please do not hesitate to contact me.

Sincerely,



Michael W. Klemens, PhD

# MICHAEL W. KLEMENS

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Cary Institute of Ecosystem Studies  
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2801 Sharon Turnpike  
Millbrook, NY 12545  
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Fax: 845-677-5976  
klemensm@ecostudies.org

## EDUCATION

### **PhD Ecology/Conservation Biology**

*University of Kent at Canterbury, U.K. (1990)*

*Dissertation: The herpetofauna of southwestern New England.*

### **MSc Zoology**

*University of Connecticut (1978)*

*Thesis: Variation and distribution of the turtle, Chrysemys picta (Schneider) in Connecticut.*

### **BSc Education**

*University of Connecticut (1975)*

## CURRENT CONSERVATION, RESEARCH, AND EDUCATION POSTS

### **Cary Institute of Ecosystem Studies**

*Research Conservationist & Founding Director, Metropolitan  
Conservation Alliance, July 1, 2008-current*

Effective July 1, 2008, the Metropolitan Conservation Alliance (MCA) moved from WCS to the Cary Institute of Ecosystem studies where MCA provides leadership and education to communities in the New York's Hudson valley, Adirondack region, and Connecticut on the integration of complex ecological information into the local land-use decision-making process. MCA produces multi-town biodiversity conservation strategies and best development and management practices, using scientific information as the under-pinning of policy recommendations. MCA works with communities to implement those strategies into their local land use practices capitalizing on the broad authority available to local jurisdictions devolved from the state land-use enabling legislation.

### **Scenic Hudson**

*Director of Conservation Science, 2007—April 2008*

*Conservation Science Advisor, April 2008--current*

Responsibilities include the scientific accuracy of the organization's core programs of land use advocacy, land acquisition, parks, and policy as well as representing the organization at the regional level concerning issues and opportunities of biodiversity conservation. Developed adaptive, precautionary strategies to address climate change in the Hudson Valley. These adaptive strategies included climate change precautionary zoning, brown-field mitigation, and carbon footprint reduction.

### **Wildlife Conservation Society (WCS)**

*Senior Conservationist, 2002–June 30, 2008 &*

*Founding Director, Metropolitan Conservation Alliance, 1998-June 30, 2008.*

The Metropolitan Conservation Alliance (MCA) provides leadership and education to more than 89 communities in the New York tri-State area on the integration of complex ecological information into the local land-use decision-making process. MCA produces multi-town biodiversity conservation strategies and works with communities to implement those strategies into their local land use practices through the adoption of innovative best management practices, capitalizing on the broad authority available to local jurisdictions devolved from the state land-use enabling legislation.

*Director for Program Development, 1994-1998.*

Worked with the various divisions of WCS to produce programs that united field conservation, facilities (i.e., zoo), and veterinary services to address complex field conservation problems. Sought financial support (both corporate and foundation) for these programs and developed methodologies that more equitably divided responsibilities for seeking/reporting on grants between project scientists and the development and financial offices of WCS.

*Research Fellow, 1992-1994.*

In partnership with the American Museum of Natural History, developed a multi-year program (that continued through 1998) of biodiversity assessment and monitoring in the National Parks of Tanzania. This program received multi-year consecutive funding from the John D. and Catherine T. Mac Arthur Foundation. The goals of the program were to build national capacity in biodiversity assessment, specimen collection, and data management. This program was conducted in partnership with the University of Dar es Salaam and several Tanzanian government agencies charged with wildlife and parks management. The program also provided academic training to promising Tanzanian nationals and professional development opportunities for faculty at the University of Dar es Salaam. This program was expanded to train MSc level students in the UK through the Darwin Initiative at the University of Kent. This joint program of the University of Kent and WCS selected promising students from WCS field sites in three African nations, Malagasy Republic, Tanzania, and Zaire. A total of nine students received scholarships to attend university in the UK through the Darwin Initiative component of the program.

### **American Museum of Natural History (AMNH)**

*Research Associate in Herpetology, May 1994-current.*

After leaving AMNH to join WCS, I continued my strong relationship with the Museum, including biodiversity assessment and expeditionary studies in Africa and the eastern United States, which resulted in significant collections of more than 18,000 specimens that have been added to the permanent research collections. Publications focus on African amphibians, biogeography and conservation of northeastern US amphibians and reptiles, and biochemical studies of polyploid and unisexual salamanders.

***Director, Special Projects, Center for Biodiversity and Conservation, 1993-1994 & Director, Environmental Initiatives, 1990-1993.***

Envisioned and created the Museum's Center for Biodiversity and Conservation to make available to policy and decision-making, as well as public information, the accumulated data contained in more than 30 million samples of biodiversity collected around the globe. Worked with Museum scientists to enable them to become disseminators of that data, to secure funding for these endeavors, and to maintain the scientific integrity of the information while recognizing that the requirements for information to inform decision-making is at times different from that of more traditional scientific inquiry. Since its inception, the Center has continued to be a voice for biodiversity conservation, treading carefully the interface between scholarly investigation and the need for scientific engagement in the ever-growing biodiversity crisis.

***Senior Scientific Assistant/Scientific Assistant, Herpetology, 1979-1989.***

Joining the AMNH as a technical officer in 1979, my responsibilities were assisting curators in their research and the management (cataloging and data retrieval) of the preserved collection of amphibians and reptiles, which at that time included about 300,000 specimens.

**Michael W. Klemens, LLC**

***Managing Director, 2002-current.***

Provides technical services on a for-profit basis to NGO's, government agencies, municipalities, and private entities on the integration of biodiversity conservation and best management practices as they pertain to land-use decision making and ecologically-appropriate (i.e., "green") development.

**Center for Humans and Nature**

***Senior Consultant, 2007-current.***

I am currently developing of a program to link the Consortium of Colleges and University of the Hudson Valley, American Museum of Natural History, New York Historical Society, and the Center for Human and Nature in a multi-year exploration of the cultural norms that underlie our collective relationship with the natural world. The ultimate goal of this program is to create a forum that will allow communities (broadly defined) to envision their sustainable future free from the traditional encumbrances of positional arguments and pre-conceived outcomes. The project seeks to develop a culture of democratic ecological citizenship through engagement and participation within the Hudson Valley region.

**Pace University, School of Law, Land Use Law Center**

*Course Lecturer, Land Use Leadership Alliance (LULA) Training Program, 1998-current*

This innovative program seeks to instill a different culture in land-use decision-making, by making information available to local leaders, and training them in how to use that information in a conflict-neutral manner. My involvement in the program is teaching modules on biodiversity conservation at the local level, integration of sustainable development techniques, and community visioning techniques.

**University of Maine, Department of Plant, Soil, and Environmental Sciences**

*Adjunct Graduate Faculty, 2003-current*

Co-supervising and advising MSc students.

**PAST CONSERVATION, RESEARCH, AND EDUCATION POSTS**

**Columbia University, Center for Environmental Education and Conservation**

*Research Associate, 1998-2006.*

**University of Massachusetts, Amherst**

*Adjunct Assistant Professor, 1996-2002.*

**IUCN -The World Conservation Union**

*Editor, Species, Journal of the World Conservation Union, Species Survival Commission, 1999-2000.*

*Vice Chairman, Tortoise and Freshwater Turtle Specialist Group, 1991-1998.*

*Action Plan Director, Tortoise and Freshwater Turtle Specialist Group, 1989-1998.*

*Member, African Amphibian and Reptile Specialist Group, 1992-current.*

*Member, Repatriation and Relocation Specialist Group, 1993-current.*

**University of Kent, Durrell Institute of Conservation and Ecology**

*Visiting Research Fellow, 1990-1995.*

**Turtle Recovery Program**

*Founder/Director, 1989-2000.*

**Simon's Rock College**

*Adjunct Faculty, 1986-1988.*

**Massachusetts Division of Fisheries and Wildlife**  
*Cooperating Wildlife Researcher, 1984-1990.*

**United States Department of the Interior, National Park Service**  
*Herpetologist, Roosevelt-Vanderbilt National Historic Site, 1988.*

**University of Michigan, Museum of Zoology**  
*Curatorial Assistant, 1978-1979.*

**University of Connecticut, Museum of Natural History**  
*Curatorial Assistant, 1975-1978.*

**Town of Vernon, Connecticut**  
*Environmental Educator, Valley Falls Park, 1975-1977.*

## **CURRENT APPOINTMENTS: COMMISSIONS, BOARDS & PANELS**

**State of Connecticut Department of Environmental Protection**  
*Landscape Stewardship Steering Committee  
& Non-harvested Wildlife Amphibian and Reptiles Advisory Committee*

**Town of Salisbury, Connecticut Planning and Zoning Commission**  
*Elected (municipal elections) November 2007*

**Westchester Land Trust**  
*Advisory Board*

**Federated Conservationists of Westchester County**  
*Advisory Board*

**The Bay Foundation and the Josephine Bay Paul and C. Michael Paul Foundation, Inc.**  
*Biodiversity Leadership Awards Elector*

**The H. John Heinz III Center for Science, Economics and the Environment**  
*Urban and Suburban Work Group Member, Designing a Report on the State of the Nation's Ecosystems Project*

## **PAST APPOINTMENTS: COMMISSIONS, BOARDS & PANELS**

**New Jersey Highlands Water Protection and Planning Council**

**New Jersey Landscape Project**  
*Technical Advisory Committee*



**City of Rye, NY**

*Chairman, Master Plan Update Task Force, 2000-2003.*

*Chairman, Planning Commission, 1997-2003.*

*Vice Chairman, Planning Commission, 1996-1997.*

*Member, Planning Commission, 1992-1996.*

**New York League of Conservation Voters, Westchester Chapter Board**

*Board Member, 2000-2001.*

**American Rivers**

*Science and Technical Advisory Board, 1992-2001.*

**Stewart Airport Lands Citizens Advisory Committee (gubernatorial appointment)**

*1998-1999.*

**Hudsonia, Ltd.**

*Board of Directors, 1995-1999.*

**The Jay Heritage Center, Rye, New York**

*Interpretive Planning Panel, 1998.*

**Westchester Land Trust**

*Board of Directors, 1997-1999.*

**PROFESSIONAL DISTINCTIONS**

**Herpetological Journal**

*Editorial Board, 1992-1994.*

**Chelonian Conservation and Biology**

*Editorial Board, 1993-2006.*

**Nature in Fragments: The Legacy of Urban Sprawl, Spring Symposium, 2000**

*Conference Co-organizer, 2000.*

**Society for the Study of Amphibians and Reptiles**

*Conservation Committee Chairman, 1998-1999.*

**Land Use Law Center, Pace University School of Law**

*Community Leadership Alliance Graduate, 1997.*

**Catalogue of American Amphibians and Reptiles**

*Editor, Testudines, 1991-1994.*

**Conservation, Restoration, and Management of Tortoises and Turtles-**

**An International Conference**

*Chairman and Conference Organizer, 1993.*

**AWARDS & TRIBUTES**

**American Planning Association, Connecticut Chapter**

*2007 Award for excellence in “integrating complex ecological processes into local land-use decisions.*

**Resolution from the City of Rye**

*Commending Michael Klemens for his service to the City (Conservation Commission Advisory Committee/Planning Commission/Chair of Planning Commission.) March 10, 2004.*

**Office of the County Executive Certificate of Appreciation**

*Westchester County, October 2003. In grateful appreciation for service rendered to the County of Westchester.*

**Science and Technical Advisory Committee Achievement Award**

*American Rivers, October 2001. In recognition of outstanding contribution and commitment to river conservation.*

**21 New Yorkers to Watch in the 21<sup>st</sup> Century**

*Daily News, January 1, 2000, p. 22.*

**Orange Environment Award**

*November 13, 1999.*

**The Edith G. Read Conservation Award**

*For drafting Rye City’s Wetlands Ordinance, 1991.*

**The Nature Conservancy, Connecticut Chapter**

*Recipient, White Oak Award for Conservation Research, 1980.*

**American Museum of Natural History**

*Associate Patron*

**PUBLICATIONS**

Bogart, J. P. and M. W. Klemens. 2008. **Additional distributional records of *Ambystoma laterale*, *A. jeffersonianum* (Amphibia: Caudata) and Their Unisexual Kleptogens in Northeastern North America.** American Museum of Natural History Novitates: 3627: 58 pp., 8 figures, 7 tables.

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- LaBruna, D. T. and M. W. Klemens. 2007. **Croton-to-Highlands Biodiversity Plan: Somers Addendum**. MCA Technical Paper 7-A, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- LaBruna, D. T. and M. W. Klemens. 2007. **Eastern Westchester Biotic Corridor: Bedford Addendum**. MCA Technical Paper 4-A, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Klein, M. S., M. W. Klemens, and D. H. Merriam. 2006. **Where's Waldo? Finding federal wetlands after the *Rapanos* decision**. Zoning and Planning Law Report 29(8):1-16.
- LaBruna, D. T., M. W. Klemens, J. D. Avery, and K. J. Ryan. 2006. **Pocantico Hills Biodiversity Plan, Rockefeller State Park Preserve and Associated Private Lands: A Public-Private Land Stewardship Initiative**. MCA Technical Paper 12, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Gruner, H. J., M. W. Klemens, and A. Persons. 2006. **Farmington Valley Biodiversity Strategy**. MCA Technical Paper No. 11, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Klemens, M. W., M. Shansky, and H. J. Gruner. 2006. **From Planning to Action: Biodiversity Conservation in Connecticut Towns**. MCA Technical Paper No. 10, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Johnson, E. and M. W. Klemens (eds). 2005. **Nature in Fragments: The Legacy of Sprawl**. Columbia University Press, NY 382 pp.
- Johnson, E. and M. W. Klemens. 2005. **The Impacts of Sprawl on Biodiversity**. Pp. 18-53 *In* Johnson, E. A. and M. W. Klemens. *Nature in Fragments: The Legacy of Sprawl*. Columbia University Press, NY.
- Miller, N. A., and M. W. Klemens. 2005. **Freshwater Wetland Biodiversity in an Urbanizing World**. Pp. 57-89 *In* Johnson, E. A. and M. W. Klemens. *Nature in Fragments: The Legacy of Sprawl*. Columbia University Press, NY.
- Daly, J. and M. W. Klemens. 2005. **Integrating Conservation of Biodiversity into Local Planning**. Pp. 313-334 *In* Johnson, E. A. and M. W. Klemens. *Nature in Fragments: The Legacy of Sprawl*. Columbia University Press, NY.

- Klemens, M. W. and E. A. Johnson. 2005. **Creating a Framework for Change.** Pp. 349-362 *In* Johnson, E. A. and M. W. Klemens. *Nature in Fragments: The Legacy of Sprawl.* Columbia University Press, NY.
- Miller, N. A., M. W. Klemens, and J. E. Schmitz. 2005. **Biodiversity Conservation through Local Land Use Planning: An Assessment of Needs and Opportunities in the New Jersey Townships of Chester, Lebanon, and Washington.** MCA Technical Paper No. 9, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Miller, N. A., M. W. Klemens, and J. E. Schmitz. 2005. **Southern Wallkill Biodiversity Plan: Balancing Development and the Environment in the Hudson River Estuary Watershed.** MCA Technical Paper No. 8, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Miller, N. A. and M.W. Klemens. 2004. **Croton-to-Highlands Biodiversity Plan: Balancing Development and the Environment in the Hudson River Estuary Catchment.** MCA Technical Paper No. 7, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Klemens, M.W. 2003. Keynote Address: **New Directions for Turtle Conservation.** Pp. 1-3 *In* Conservation and Ecology of Turtles of the Mid-Atlantic Region: A Symposium ed. by C. Swarth, W. Roosenburg, and E. Kiviat. Bibliomania!, Salt Lake City, UT
- Calhoun, A. J. K. and M. W. Klemens. 2002. **Best Development Practices (BDPs) for Conserving Pool-breeding Amphibians in Residential and Commercial Developments.** MCA Technical Paper No. 5, Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, NY.
- Klemens, M.W. 2002. **Conserving Vernal Pools for Biodiversity and Public Health.** Pp. 71-74 *In* Proceedings of the 48<sup>th</sup> Annual Meeting: Northeastern Mosquito Control Association, Inc.
- Klemens, M.W. April-May 2002. **Intelligent Planning for Wildlife and Wild Places,** Westchester Environment, Vol. 2002 No. 2. Federated Conservationists of Westchester County, Inc.
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- Klemens, M. W. 2001. **Bog Turtle (*Clemmys mühlenbergii*)—Northern Population Recovery Plan,** U.S. Fish and Wildlife Service, Northeast Region, Hadley, MA, 103 pp.

- Lawson, D. P. and M. W. Klemens. 2001. **Herpetofauna of the African Rain Forest: Overview and Recommendations for Conservation.** Pp. 291-307 *In* Vedder, A., W. Weber, L. White, and L. Naughton-Treves (eds.). African Rain Forest Ecology and Conservation: An Interdisciplinary Perspective. Yale University Press, New Haven, CT.
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- Klemens, M. W. 2000. **From Information to Action: Developing More Effective Strategies to Conserve Turtles.** Pp. 239-258 *In* Michael W. Klemens (ed.) *Turtle Conservation.* Smithsonian Institution Press, Washington, D.C.
- Mitchell, J. C., and M. W. Klemens. 2000. **Primary and Secondary Effects of Habitat Alteration.** Pp. 5-32 *In* Michael W. Klemens (ed.) *Turtle Conservation.* Smithsonian Institution Press, Washington, D.C.
- Thorbjarnarson, J., C. J. Lagueux, D. Bolze, M. W. Klemens, and A. B. Meylan. 2000. **Human Use of Turtles: A Worldwide Perspective.** Pp. 33-84 *In* Michael W. Klemens (ed.) *Turtle Conservation.* Smithsonian Institution Press, Washington, D.C.
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- Klemens, M. W. 1999. (Abstract) **The anurans of the Ennedi Massif (northeastern Tchad): a case of island biogeography.** *In* Tenth meeting of the African Amphibian Working Group, 6-9 June 1999, University of Stellenbosch, South Africa (unpaginated).
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- Klemens, M. W. 1998. **Keynote address: Ephemeral wetlands – ephemeral protection.** Pp. 15-17 *In* Fellman, Bruce (ed.) *Our hidden wetlands: The*

- proceedings of a symposium on vernal pools in Connecticut. Yale University and Connecticut DEP.
- Klemens, M. W., A. M. Nikundiwe, and L. S. Ford. 1997. **Amphibians and reptiles of Tarangire National Park.** *In* Second Report on Biodiversity Surveys and Training in Tarangire and Udzungwa Mountains National Parks, Tanzania, March 1995-July 1996.
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- Klemens, M. W. 1996. (Abstract) **Amphibian biodiversity in Tanzanian National Parks.** Pp. 5 *In* Ninth Symposium on African Amphibians, 9-12 September, 1996, University of Bristol, UK.
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- Tarangire National Park, Tanzania.** Unpublished Report, 13 pp.
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## **INVITED PAPERS & PRESENTATIONS**

### **Status of Amphibians and Reptiles in the Tri-State New York Metro Region.**

Highstead Arboretum, Redding, CT. October 18, 2008.

### **Mediation: Wood Turtle (*Clemmys insculpta*) Research/Conservation and**

**Agriculture: Great Swamp.** Pawling NY August 4, 2008.

**Effective Preservation of Biological Communities: Local and Regional Strategies.**

Keynote Speaker. Annual Meeting of the Winnakee Land Trust. Norrie Point Environmental Center, Staatsburg, NY. July 30, 2008

**Effective Preservation of Biological Communities: Local and Regional Strategies.**

Lake George Watershed Conference: 4<sup>th</sup> Annual Forum on Water Quality & Resource Conservation, Fort William Henry Conference Center, Lake George, NY, June 18, 2008,

**Planning and Designing for Biodiversity**

Adirondack Research Consortium, 15<sup>th</sup> Annual Conference on the Adirondacks, Lake Placid, NY May 21-22, 2008.

**Effective Preservation of Biological Communities: Local and Regional Strategies.**

Keynote Address: Planning for Biodiversity: Strategies for Developers and Municipalities sponsored by the Hudson Valley Smart Growth Alliance, Marist College, April 29, 2008.

**Status of Amphibians and Reptiles in the Tri-State New York Metro Region.** The

Hotchkiss School, Lakeville, CT. February 14, 2008.

**Effective Preservation of Biological Communities: Local and Regional Strategies.**

Yale University, New Haven, CT. February 5, 2008.

**The North Castle Biodiversity Plan.** Town Hall, Armonk, NY. January 9, 2008.

**Planning and Designing for Biodiversity.** Bedford-Somers Continuing Education

Course for Land-use Decision Makers: Biodiversity Lecture Series. Katonah Library, Katonah, NY . December 6, 2007

**Effective Preservation of Biological Communities: Local and Regional Strategies.**

Keynote Address, Connecticut Association of Inland Wetlands and Conservation Commissions (CACIWC) 30<sup>th</sup> Annual Meeting and Environmental Conference, Wallingford, CT. November 10, 2007.

**Keeping Connected: Securing Biodiversity in a Changing Landscape.** New York

City Bar Association Annual Conference on Animals and the Law. NY, NY. September 29, 2007.

**Stream Pirates, Clones and Island Hoppers: A Herpetological View of Coastal New England.** Henry L. Ferguson Museum. Fishers Island, NY August 19, 2007.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** United States Society for Ecological Economics, 4<sup>th</sup> Biennial Conference. Pace University NY City Campus. June 25, 2007.

**The Metropolitan Conservation Alliance: Confronting Sprawl Through Enlightened and Use Planning in the NYC Watershed.** Open Space Institute Lunch Seminar. NY, NY May 9, 2007.

**The Metropolitan Conservation Alliance: Confronting Sprawl Through Enlightened Land Use Planning in the NYC Watershed.** Presented in conjunction with Nature-Network to Ted Kheel and Nurture New York's Nature. NY, NY. May 9, 2007.

**Keynote Address: Dutchess County Planning Federation: Annual Awards Dinner. Bridging the Gap Between Conservation Science and Land-use Planning.** Poughkeepsie, NY. April 30, 2007.

**Bedford Biodiversity Study.** Bedford Town Hall, Bedford, NY. April 4, 2007.

**Biodiversity Conservation in a Rapidly Developing Environment.** Penn State Schuylkill Library. Co-sponsored by the Schuylkill Conservation District, Schuylkill County Sportsmen's Advisory Board, DCNR-Bureau of Forestry, and the Schuylkill County Conservancy. March 28, 2007.

**Local Land Use Planning and Herpetofauna Conservation.** NYTTS Seminar, American Museum of Natural History, NY, NY. March 25, 2007.

**Biodiversity Planning and Agriculture.** Marlborough, NY. February 28, 2007.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** Ridgefield Conservation Commission. Ridgefield, CT. April 6, 2006.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** Great Swamp Biodiversity Partnership Workshop. Dover, NY. March 30, 2006.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** Philipstown Town Council. Philipstown, NY. March 9, 2006.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** University of Chicago. Chicago, IL. February 9, 2006.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** Chicago Wilderness. Peggy Notebaert Nature Museum. Chicago, IL. February 8, 2006.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** Lake Forest College. Chicago, IL. February 7, 2006.

**Nature in Fragments: Confronting Sprawl Through Enlightened Land Use Planning.** Professor Caleb Gordon's Conservation Biology Class. Lake Forest College. Chicago, IL. February 7, 2006.

**Our Extraordinary Backyards: Realizing the Croton-to-Highlands Biodiversity Plan.** Keynote address. *Our Extraordinary Backyards*. Workshop co-sponsored by WCS/MCA, Westchester Land Trust, and Cortlandt Land Trust. Cortlandt, NY. January 21, 2006.

**Gotham's Footprint: Can Science and Planning Save our Biological Heritage?** CUNY Nature of New York Course. New York, NY. November 29, 2005.

**The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** South Carolina Coastal Conservation League. Charleston, SC. November 28, 2005.

**The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** Humans, Nature, and Democracy Conference. Graduate Center, New School for Social Research, New York, NY. November 17-18, 2005.

**The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** Scenic Hudson. Poughkeepsie, NY. October 31, 2005.

**The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** Association of New Jersey Environmental Commissions 32<sup>nd</sup> Annual Environmental Congress. The Conference Center at Mercer. Mercer Community College, West Windsor, NJ. October 21, 2005.

**The Link Between Intact Ecosystems and Livable Human Communities.** Association of New Jersey Environmental Commissions 32<sup>nd</sup> Annual Environmental Congress. The Conference Center at Mercer. Mercer Community College, West Windsor, NJ. October 21, 2005.

**The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** Washington, CT Environmental Council. Washington, CT. July 14, 2005.

**Gotham's Footprint: Can Science and Planning Save our Biological Heritage?** CUNY Nature of New York Course. New York, NY. June 13, 2005.

**Integrating Biodiversity Principles into Land Use Decisions.** Connecticut Land Use Leadership Alliance (LULA). June 3, 2005.

**Wildlife Conservation in an Urbanizing World.** WCS International Conservation Committee. Bronx Zoo. May 5, 2005.

**Wildlife Conservation in an Urbanizing World.** WCS Lunchtime Lecture Series. Central Park Zoo. May 4, 2005.

**Integrating Biodiversity Principles into Land Use Decisions.** Connecticut Land Use Leadership Alliance (LULA). Ellington, CT. April 29, 2005.

**Finding the Forest between the Trees: The Challenges of Ecologically Scaling Land Use Decisions.** *Conserving our Local Landscapes: Build Your Tool-Kit of Land Management Practices.* Symposium funded by The Henry Philip Kraft Family Memorial Fund of the Westchester Community Foundation. Edith May Conference Center, Briarcliff Manor, NY. April 28, 2005.

**Biodiversity & Local Land Use Planning.** *Southern Wallkill Biodiversity Meeting* – Towns of Chester, Goshen, and Warwick. Warwick Town Hall, Warwick, NY. April 27, 2005.

**The Ecological Basis for Conservation Overlay Districts.** Dutchess County Environmental Management Council. Farm and Home Center, Millbrook, NY. April 21, 2005.

**Postcards from the Edge: Nature at the Suburban-Rural Frontier.** *Nature Network Launching Conference.* The Graduate Center, City University of New York, New York, NY. April 14, 2005.

**Status of Amphibians and Reptiles in the Tri-State New York Metro Region.** *Nature Network Launching Conference.* The Graduate Center, City University of New York, New York, NY. April 13, 2005.

**Planning with Nature in New Jersey.** *Biodiversity & Land Use Planning Workshop* – New Jersey Townships of Chester, Washington, and Lebanon. Lebanon Township Municipal Building, Glen Gardner, NJ. March 19, 2005.

**Moving Forward: The Eastern Westchester Biotic Corridor and Beyond.** *Our Extraordinary Backyards.* Lewisboro Land Trust & Waccabuc Landowners Council. Waccabuc County Club, Waccabuc, NY. March 5, 2005.

**Planning for Nature and Wetlands, Biodiversity.** *Planning for Nature Workshop.* Connecticut Southwest Conservation District. The Center Building, Woodbridge, CT. February 19, 2005.

- Tools for Local Land Use Planning.** *Planning for Nature Workshop.* Connecticut Southwest Conservation District. The Center Building, Woodbridge, CT. February 19, 2005.
- The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** New Jersey Intermunicipal Meeting – Chester, Lebanon, and Washington Townships. Lebanon Township Municipal Building, Glen Gardner, NJ. January 27, 2005.
- Planning for Nature.** *Planning for Nature Workshop.* Connecticut North Central Conservation District. Tolland County Agricultural Center, Vernon, CT. January 22, 2005.
- Wetlands, Biodiversity, and Tools for Local Land Use Planning.** *Planning for Nature Workshop.* Connecticut North Central Conservation District. Tolland County Agricultural Center, Vernon, CT. January 22, 2005.
- The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** Falls Village Inland Wetlands/Conservation Commission. Housatonic Valley Regional High School, Falls Village, CT. January 21, 2005.
- Gotham's Footprint: Can Science and Planning Save our Biological Heritage? .** CUNY *Nature of New York* course. The School of Professional Studies at the University Center, New York, NY. December 12, 2004.
- Natural Systems, Human Systems, Planning and Design.** American Institute of Architects – *Conservation, Planning and Architecture: Biodiversity at Home and Abroad Session One: The MCA.* Center for Architecture, New York, NY. November 15, 2004.
- The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** Warwick Valley Chamber of Commerce Annual Membership Dinner. Warwick Valley Country Club, Warwick, NY. November 12, 2004.
- Croton-to-Highlands Biodiversity Plan.** Town of New Castle Town Board Meeting. New Castle, NY Town Hall. November 9, 2004.
- Gaining Ground Clinics: Celebrating Successful Local Leaders. Natural Resource Protection.** The New York State Judicial Institute, Pace University School of Law. White Plains, NY. November 6, 2004.
- The Wild Choice: Intelligent Planning for Wildlife and Wild Places.** Rockefeller Brothers Fund. Tarrytown, NY. November 4, 2004.
- Protecting Biodiversity While Planning for Growth.** Pace University Land Use Law Center, Land Use Leadership Alliance. Hudson Valley Center, New Windsor, NY. October 29, 2004.

**Moving Forward: The Eastern Westchester Biotic Corridor and Beyond.** Eastern Westchester Biotic Corridor Implementation Meeting. North Salem, NY. October 21, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Association of New Jersey Environmental Commissions (ANJEC), *Beyond Home Rule: Protecting the Environment through Regional Planning*. Mercer County Community College, West Windsor, New Jersey. October 15, 2004.

**Creative Planning to Conserve Wildlife: An Update from the Bronx Zoo's Backyard.** WCS International, Bronx Zoo. Bronx, NY. September 15, 2004.

**Croton-to-Highlands Biodiversity Plan.** Town of Putnam Valley Town Board Meeting. Putnam Valley, NY Town Hall. September 22, 2004.

**Croton-to-Highlands Biodiversity Plan.** Town of Yorktown Town Board Meeting. Yorktown, NY Town Hall. September 7, 2004.

**Will Better Land Use Decisions Protect our Region's Biodiversity?** Society for Conservation Biology 18th Annual Meeting. Columbia University, New York, NY. July 30 – August 2, 2004.

**Extreme Frogs: A Celebration of the Second Plague.** American Museum of Natural History. *Extreme Frogs*. Kaufman Theater, New York, NY. June 29, 2004.

**Croton-to-Highlands Biodiversity Plan: Implementation Phase.** Meeting with the towns of Cortlandt, New Castle, Putnam Valley, and Yorktown to discuss implementation strategies and priorities. Town of New Castle, NY. June 14, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Westchester Land Trust & Westchester Community Foundation Conference. *Smart Growth from the Ground Up: How Community-Based Planning is Reshaping our Region's Land Use Policies*. Manhattanville College, Purchase, NY. May 18, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** *Norfolk Inland Wetlands Agency*. Norfolk, CT. April 24, 2004.

**Croton-to-Highlands Biodiversity Plan Press Conference.** Turkey Mountain Nature Preserve, Town of Yorktown, NY. April 22, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Annual meeting of the *Goshen Land Trust*. St. Thomas Church, Goshen, CT. April 16, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Meeting of the *Association of New Jersey Environmental Commissions (ANJEC)*. March 29, 2004.

**Keeping Connected: Securing Biodiversity in a Changing Landscape.** Conference of New England Governors and Eastern Canadian Premiers, Suffolk University Law School, Boston, MA. March 15-16, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation in Connecticut.** The Hotchkiss School, Lakeville, CT. March 2, 2004.

**Amphibians & Reptiles of Connecticut: 1975-Present.** Hotchkiss School. Lakeville, CT. March 2, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation in the Wallkill Valley.** Inter-Municipal Biodiversity Project Meeting, Goshen Town Hall, Goshen NY. February 2, 2004.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation in the Wallkill Valley.** Inter-Municipal Biodiversity Project Meeting, Lloyd Town Hall, Lloyd, NY. February 4, 2004.

**Intelligent Planning for Wildlife and Wild Places.** The Linnaean Society of New York. New York, NY. January 13, 2004.

**Linking Conservation to Scale in Westchester County.** Manhattanville College, Purchase, NY. December 10, 2003.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Connecticut Land Trust, Norwalk, CT. November 18, 2003.

**Wetlands: Is there life after Avalon?** Connecticut Association of Conservation and Inland Wetland Commissions, Wallingford, CT. November 15, 2003.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Connecticut Association of Conservation and Inland Wetland Commissions, Wallingford, CT. November 15, 2003.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** CERC – Graduate Seminar, Columbia University, New York, NY. November 11, 2003.

**Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Croton-to-Highlands Corridor Meeting – Towns of Cortlandt, New Castle, Putnam Valley, & Yorktown, NY. October 27, 2003.



- Whose Water Is It?** Dutchess County Environmental Management Council, Vassar College, NY.
- What is Biodiversity?** Audubon Greenwich, Greenwich, CT. October 24, 2003.
- Wetlands and Vernal Pools.** Westchester County Park Curators Vernal Pool Walk/Lecture, Rye, NY. October 10, 2003.
- Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** Eastern Connecticut District Workshop, Norwich, CT. September 29, 2003.
- Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** New York Bar Association, Fall Meeting, Hancock, MA. September 20, 2003
- Assembling the Pieces: A Bricks and Mortar Approach to Conservation.** The Society for Conservation Biology, Annual Meeting, Duluth, MN. June 28 – July 1, 2003.
- Planning for Nature: Integrating Biodiversity into Local Land-Use Decisions.** CT River Coastal Conservation District, Inc. – Planning for Nature Workshop, Haddam, CT. June 14, 2003.
- Intelligent Planning For Wildlife and Wild Places.** Sherman Conservation Commission – Conservation and Responsible Growth Workshop, Sherman, CT. June 7, 2003.
- Planning for Nature: Integrating Biodiversity into Local Land-Use Decisions.** Torrington, CT. May 17, 2003.
- Intelligent Planning for Wildlife and Wild Places.** Pomperaug River Watershed Coalition, Inc., Southbury, CT. April 30, 2003.
- Conservation Practices and Strategies in the New York City Region.** Society Wide Educator Meeting: Conservation Update – "WCS, leading the fight to save and protect our planet's Living Landscapes", Bronx Zoo, Bronx, NY. April 21, 2003.
- Sustaining Biodiversity at the Suburban-Rural Frontier.** Knollwood Garden Club, Greenwich, CT. April 8, 2003.
- Intelligent Planning for Wildlife and Wild Places.** CT Green Building Council; CT Chapter American Society of Landscape Architects – "Let Nature Do the Work!", New Haven, CT. March 21, 2003.
- Planning for Nature.** Planning For Nature Workshop, New Paltz, NY. March 19, 2003.
- MCA Program and FoSA Analysis.** Town of Lloyd Town Board Workshop, Lloyd, NY. March 5, 2003.

**Intelligent Planning for Wildlife and Wild Places.** Shawangunk Biodiversity Partnership: Eighth Annual Winter Lecture Series. SUNY New Paltz, New Paltz, NY. February 27, 2003.

**Local Conservation Issues.** The Little Garden Club of Rye, Rye, NY. February 11, 2003.

**Biodiversity and the Empire State: Conserving our Landscapes.** TNC, CERC, & SIPA – "Biodiversity on the Brink: Challenges in Science and Policy." Columbia University, New York, NY. February 6, 2003.

**Assessing the Needs of the Towns Within the Croton-to-Highlands Corridor.** Meeting of towns within the Croton-to-Highlands Corridor. Cortlandt, New Castle, Putnam Valley, and Yorktown, NY. January 16, 2003.

**Conserving Vernal Pools for Biodiversity and Public Health.** Northeastern Mosquito Control Association Annual Meeting. Mystic, CT. December 2, 2002.

**Discovering and Defending the City's Wildlife: A Conversation with Conservationists.** New York Public Library Public Program. Urban Neighbors, Urban Neighborhoods: Celebrating and Protecting New York's Wildlife and Green Spaces. New York, NY. November 7, 2002.

**Intelligent Planning for Wildlife and Wild Places.** Let Nature Do the Work. Federated Conservationists of Westchester County Informational Seminar. Pace University, Pleasantville, NY. October 18, 2002.

**Conservation at the Suburban-Rural Frontier.** Litchfield County Conservation District Annual Meeting. Bridgewater, CT. October 17, 2002.

**Connecticut Chapter of the American Planning Association Meeting.** Biodiversity Protection and Conservation Area Overlay Districts. Rocky Hill, CT. June 21, 2002.

**Land Trusts, Public Officials and Scientists: Collaborating on Quality Communities.** Tenth Anniversary New York Land Trust Conference. Saratoga Springs, NY. June 1, 2002.

**Biodiversity Protection: New Opportunities for Land Trusts and Public Agencies.** Tenth Anniversary New York Land Trust Conference. Saratoga Springs, NY. June 1, 2002.

**Eastern Westchester Biotic Corridor.** North Salem Town Board Meeting. North Salem, NY. May 28, 2002.

**Defenders of Wildlife National Workshop on Land-Use Planning &**

- Biodiversity Conservation.** Aspen Wye River Conference Center, Maryland. February 28-March 1, 2002.
- Sustaining Ecosystems in Westchester County: Making Smart Growth Work for Wildlife.** Backyard Biodiversity: Conservation at the Community Level. Irvington Garden Club. February 19, 2002.
- Uncovering and Covering: The Region's Unexplored Environmental Stories - Society of Environmental Journalists 2002 Boston-to-Baltimore Briefing.** Sponsored by SEJ, EOHSI, the Hudson River Foundation and the New Jersey Center for Environmental Indicators. January 18, 2002.
- Biodiversity and Land-Use Advisory Meeting.** Island Press, Washington, DC. December 17-18, 2001.
- Examples of Regional Biodiversity Initiatives.** Farmington River Watershed Workshop, Simsbury, CT. November 30, 2001.
- Sustaining Ecosystems in Westchester County: Making Smart Growth Work for Wildlife.** PACE University Lecture, Anna Gorgeou class, White Plains, NY. November 29, 2001.
- Sustaining Ecosystems in Westchester County: Making Smart Growth Work for Wildlife.** Westchester Land Trust Conference: Growing Smarter: How to Plan for Quality Communities, White Plains, NY. November 17, 2001.
- Sustaining Ecosystems in a Changing Landscape.** Farmington River Watershed Association (FRWA) Meeting, Simsbury, CT. November 15, 2001.
- Sustaining Ecosystems in a Changing Landscape.** PACE University Seminar, Dr. Josh Schwartz class, Pleasantville, NY. October 19, 2001.
- Sustaining Ecosystems in a Changing Landscape.** Stamford Land Conservation Trust Annual Meeting, Stamford, CT. October 16, 2001.
- Biodiversity and Agriculture.** Wallkill Valley Community Leadership Alliance Training Program. Cold Spring, NY. October 15, 2001.
- The Metropolitan Conservation Alliance: Protecting Wildlife at the Rural/Suburban Frontier.** Conservation Medicine in the New York Bioscape: A Research, Education, and Policy Agenda - Wildlife Trust, Tarrytown, NY. October 5, 2001.
- Conservation Strategies Combined with Local Land-Use Planning.** Tools for

Watershed Management Workshop. Brooklyn, NY. October 3, 2001.

**The Geological and Ecological Framework of the Wallkill Valley.** Wallkill Valley Community Leadership Alliance Training Program. Cold Spring, NY. October 1, 2001.

**Wise Use in the Absence of Wisdom.** Property and the Commons: Rights and Responsibilities, Humans and Nature Consortium, July 17-18, 2001. Sponsored by The Hastings Center. Chicago, IL. July 18, 2001.

**Wallkill Valley Conservation: Placing Growth in an Ecological Context.** Informative Slideshow & Public Discussion: Wildlife in the Wallkill Valley - How we can learn about and protect it. Sponsored by the Wallkill River Task Force - Ulster Branch. New Paltz, NY. July 11, 2001.

**Sustaining Ecosystems in a Changing Landscape.** Orange County Land Trust Dinner. Warwick Center, Warwick, NY. June 14, 2001.

**Stormwater Design and Its Impact on Biodiversity.** 2001 Southeast NY Stormwater Conference and Trade Show, June 13-14. Sponsored by the Lower Hudson Coalition of Conservation Districts and Hudson Valley Regional Council. Fishkill, NY. June 13, 2001.

**Repatriation, Relocation, and Translocation: Real Solutions.** 57th Annual Northeast Fish and Wildlife Conference, April 22-25, 2001. Sponsored by the New York State Department of Environmental Conservation. Saratoga Springs, NY. April 24, 2001.

**Biodiversity and Agriculture.** 2001 APA National Planning Conference, March 10-14, 2001. Sponsored by the American Planning Association. New Orleans, LA. March 12, 2001.

**Wildlife-Friendly Transportation Planning.** 2001 APA National Planning Conference, March 10-14, 2001. Sponsored by the American Planning Association. New Orleans, LA. March 11, 2001.

**Sustaining Biodiversity in a Changing Landscape.** Massachusetts Association of Conservation Commissions - 2001 Annual Meeting. Worcester, MA. March 3, 2001.

**Strategies for Providing Biodiversity Data to Key Decision-Makers (panel speaker).** Status of the States: Innovative State Strategies for Biodiversity Conservation. National Biodiversity Symposium. Sponsored by the Environmental Law Institute, January 17-18, 2001. Washington, DC. January 18, 2001.

**Justice: Humans, Nature and Time.** Humans, Nature, and Environmental Justice, Humans and Nature Consortium, January 15-16, 2001.  
Sponsored by The Hastings Center. St. Helen Island, SC. January 16, 2001.

**Biodiversity Conservation at the Suburban-Rural Frontier: New Opportunities for Land Trusts.** National Land Trust Rally 2000, October 12-22, 2000. Sponsored by the Land Trust Alliance. Portland, OR. October 22, 2000.

**Sustaining Biodiversity in a Changing Landscape.** Presentation to the Selectmen and interested public officials in the towns of Granby, East Granby, Simsbury, Avon, Canton, and Farmington Towns, Farmington Valley, CT. September 21, 2000.

**Sustaining Biodiversity in a Changing Landscape-Special Multi-Town Meeting.** Hosted by the Planning & Zoning Board/Inland Wetland Commission, Ridgefield Town Hall Annex, Ridgefield, CT. June 21, 2000.

**Biodiversity at the Rural Suburban Frontier: A U.S. Perspective.** The Consultative Group on Biological Diversity 2000 Annual Meeting, The Colony Hotel, Kennebunkport, ME. June 15, 2000.

**Wild New York: Local Conservation Strategies in the Metropolitan Region.** Wine and Cheese Evenings with Experts, Wild New York Speaking Engagement, Central Park Zoo New York, NY. May 3, 2000.

**Sustaining Biodiversity in a Changing Landscape.** The Institute of Ecosystems Study and the Conservation Committee of the Millbrook Garden Club Lecture, Millbrook, NY. April 28, 2000.

**No Place Like Home – The Metropolitan Conservation Alliance.** Wildlife Conservation Society Annual Meeting 2000, Lincoln Center, New York, NY. April 17, 2000.

**Ecological Effects of Poorly Planned Development.** Nature in Fragments: The Legacy of Urban Sprawl, Spring Symposium, American Museum of Natural History, New York, NY. April 13, 2000.

**Conservation of Wetland Landscapes in the NY Metropolitan Region: Science, Awareness, Policy, and Practice.** Environmental Protection Agency, Vernal Pools of the Northeast Conference, University of Rhode Island, Kingston, RI. April 1, 2000.

**Keynote Address: Wetlands and Wildlife: Conservation Issues.** Connecticut Association of Wetland Scientists 2000 Annual Meeting, Ramada Plaza Hotel, Meriden, CT. February 17, 2000.

**Keynote Address: Landscape Conservation: Implications for the Protection and**

- Management of Reptiles and Amphibians.** Conservation and Ecology of Turtles of the Mid-Atlantic Region Conference, National Wildlife Visitor Center, Patuxent Research Refuge, Laurel, MD. October 30, 1999.
- Linking Conservation, Land-Use Regulation, and Science.** American Planning Association Symposium, Chicago, IL. September 17-18, 1999.
- The Big Apple's Biodiversity: Prospects for Survival in the Post-Eisenhowerian Era.** Biodiversity and Climate Change: Center for Biodiversity and Conservation Spring Symposium, American Museum of Natural History, New York, NY. May 1, 1999.
- Conservation of Amphibians and Reptiles in the Northeast.** Fifty-fifth Annual Northeast Fish and Wildlife Conference, Holiday Inn, Manchester, NH. April 13, 1999.
- Sustaining Biodiversity in a Changing Landscape.** The Colebrook Land Conservancy Annual Meeting, YMCA Camp Jewel, Colebrook, CT. April 8, 1999.
- The Role of Veterinarians in Monitoring the Health Status of Free-Ranging Chelonians.** Association of Reptilian and Amphibian Veterinarians Fifth Annual Conference, Crowne Plaza, Kansas City, MO. September 28, 1998.
- Keynote Address: Ephemeral Wetlands – Ephemeral Protection?** Our Hidden Wetlands: A Symposium on Vernal Pools in Connecticut, Wesleyan University, Wesleyan, CT. November 15, 1997.
- Urban Growth and Biodiversity: Can They Co-Exist?** Lecture for the Westchester Environmental Management Council and Federated Conservationists of Westchester County, Texaco, Inc. October 27, 1995.
- Post-glacial Landscape Ecology of the Long Island Sound Basin: A Herpetological Perspective.** Jay Heritage Center Annual Meeting, Rye, NY. June 7, 1995.
- Global Conservation in a Changing Environment.** Biotechnologies for the Ecological, Evolutionary and Conservation Sciences Earth Day Symposium, University of Florida, Gainesville, FL. April 29, 1995.
- From Kilimanjaro to Storm King: International Perspectives on Conserving Local Biodiversity.** Environmental Problem Solving in Dutchess County Lecture Series, Vassar College, Poughkeepsie, NY. January 26, 1995.
- Local Wetlands and Their Associated Uplands: A Conservation Challenge.** Wetlands Watch Lecture (Sierra Club), Chappaqua, NY. November 1, 1994.
- Turtle at the Crossroads.** A Symposium on the Status and Conservation of Florida Turtles, Eckerd College, St. Petersburg, FL. April 3, 1994.

**Reptiles and Amphibians of the Metropolitan Region: Threats, Causes, Solutions.** Eco Impact Lectures, American Museum of Natural History, New York, NY. February 24, 1994.

**Conservation of Amphibians and Reptiles in the Hudson Valley.** Our Own Backyard. The Hudson River and New York Harbor: A Natural History, American Museum of Natural History, New York, NY. February 9, 1994.

**The Role of Museums and Systematics in the Biodiversity Crisis.** Durrell Institute of Conservation and Ecology, University of Kent, U.K. November 11, 1993.

**Conservation Action Planning.** World Conservation Monitoring Centre, Cambridge, U.K. November 9, 1993.

**The Biological Significance of Aquatic Ecosystems.** The Future of America's Rivers/A Celebration of the 25th Anniversary of the National Wild and Scenic Rivers Act, Washington, DC. November 5, 1993.

**Preserving Local Biodiversity: Lessons from Herpetology.** 1993 New York State Conference on the Environment, White Plains, NY. October 23, 1993.

**Baseline Health Parameters of Free-ranging Pancake Tortoises, *Malacochersus tornieri*, in Tanzania.** Conservation, Restoration, and Management of Tortoises and Turtles-An International Conference, Purchase, NY. July 11-16, 1993.

**Status and Exploitation of the Pancake Tortoise (*Malacochersus tornieri*) in Tanzania.** Eighteenth Annual Symposium, Desert Tortoise Council, Palm Springs, CA. May 14-16, 1993.

**Conservation Efforts: Past Experiences, Future Needs.** Symposium on the Status and Conservation of Turtles of the Northeast, Worcester College. March 20, 1993.

**At Risk-Local Biodiversity.** Millbrook Garden Club, Salisbury, CT. October 19, 1992.

**Worldwide Turtle and Tortoise Conservation Efforts by the Turtle Recovery Program.** Minnesota Herpetological Society, Saint Paul, MN. May 1, 1992.

**Worldwide Turtle and Tortoise Conservation Efforts.** University of Minnesota, Conservation Biology Program, Minneapolis, MN. April 30, 1992.

**Turtles in Crisis-The Problems and Possible Solutions.** Brookfield Zoological Society, Brookfield, IL. April 29, 1992.

**Tortoise and Fresh Water Turtle Recovery Program.** Chicago Herpetological Society, Chicago, IL. April 28, 1992.

- Tortoise and Fresh Water Turtle Recovery Program.** 633rd Meeting of The Kennicott Club, Chicago, IL. April 27, 1992.
- Building Conservation Partnerships to Conserve Turtles.** 17th Annual Symposium. Desert Tortoise Council, Las Vegas, NV. March 6-9, 1992.
- Nonmarine Turtle Decline.** Northeast Nongame Technical Committee Meeting, Luray, VA. September 26, 1991.
- Conservation Status of the Amphibians and Reptiles of Connecticut.** 71st Annual Meeting of the American Society of Ichthyologists and Herpetologists, New York, NY. June 15-20, 1991.
- Building a Coalition for Conserving Chelonian Biodiversity: The IUCN/SSC Action Plan.** 71st Annual Meeting of the American Society of Ichthyologists and Herpetologists, New York, NY. June 15-20, 1991.
- Massachusetts and Connecticut Bog Turtle Situations and Projects.** Bog Turtle Research Symposium, Moravian College, Lehigh, PA. April 27, 1991.
- Turtle Action Plan Initiative (IUCN).** Bog Turtle Research Symposium, Moravian College, Lehigh, PA. April 27, 1991.
- The IUCN's Tortoise and Freshwater Turtle Conservation Action Plan: Reporting the First Year of Progress.** Seminar, Middlebury College, VT. April 4, 1991.
- The IUCN/Tortoise and Freshwater Turtle Specialist Group Conservation Action Plan: Report of the First Year's Progress.** 16th Annual Symposium. Desert Tortoise Council. Las Vegas, NV. March 8-11, 1991.
- Tortoises and Freshwater Turtles: An Action Plan for Their Conservation.** Joint initiative of the American Museum of Natural History and the World Conservation Union Species Survival Commission (IUCN/SSC), Special Members Lecture, American Museum of Natural History, New York, NY. February 6, 1991.
- IUCN Global Action Plan for the Conservation of Freshwater Turtles and Tortoises and Recommendations on an Upland Habitat Acquisition Program for the Gopher Tortoise Council.** Twelfth Annual Meeting of the Gopher Tortoise Council, Brooksville, FL. October 26-28, 1990.
- Implementing the International Union for the Conservation of Nature Tortoise and Freshwater Turtle Action Plan.** Symposium on Turtles and Tortoises: Conservation and Captive Husbandry. Chapman College, Orange, CA. August 9-12, 1990.



**Think Globally Act Locally: The Importance of Maintaining Local Wildlife Populations.** Long Island's Natural Habitat Management Series: Managing and Protecting Long Island's Endangered Species, Suffolk Community College, Long Island, NY. June 8, 1990.

**The IUCN Global Action Plan for the Conservation of Tortoises and Freshwater Turtles.** New York Turtle and Tortoise Society Fifth Annual Seminar, Fordham University, Bronx, NY. April 28, 1990.

**Postglacial Hybridization of *Ambystoma jeffersonianum* and *Ambystoma laterale* (Amphibia: Caudata) in the northeastern United States.** First World Congress of Herpetology, Canterbury, UK. September 11-19, 1989.

## **FUNDRAISING EXPERIENCE: AWARDS RECEIVED**

### **State of Connecticut Department of Environmental Protection**

Support for "Planning for Nature in Connecticut" workshop series, Wildlife Conservation Society, Metropolitan Conservation Alliance, 2003 – 2005.  
Support for "Farmington Valley Biodiversity Project" and "From Planning to Action: Biodiversity Conservation in Connecticut Towns", Wildlife Conservation Society, Metropolitan Conservation Alliance, 2004 – current.

### **New York State Department of Environmental Conservation**

Funding for "Integrating Biodiversity Conservation into Municipal Planning Goals and Practices", Wildlife Conservation Society, Metropolitan Conservation Alliance, 2004 – 2007.  
Funding for "Integrating Biodiversity Conservation into Municipal Planning Goals and Practices for Target Communities", Wildlife Conservation Society, Metropolitan Conservation Alliance, 2001 – 2003.

### **Geraldine R. Dodge Foundation**

Support for "A Cooperative, Science-Based Approach to Improving Wildlife Management in New Jersey", Wildlife Conservation Society, Metropolitan Conservation Alliance, 2003, renewal grant 2005.

### **Westchester Community Foundation**

Renewed support for Westchester Biotic Corridor projects, Wildlife Conservation Society, Metropolitan Conservation Alliance Program. 1999 - 2007.

### **Gage Fund**

Renewed annual support for Eastern Westchester Biotic Corridor. 2002-2008

### **Surdna Foundation, Inc.**

Funding for Wildlife Conservation Society, Metropolitan Conservation Alliance Program, 1998-2000.

Funding for Wildlife Conservation Society, NY Metro Program, 1997.

**Sweet Water Trust**

Support for “Wetland Landscapes of the Northeast,” 1999-2000.

Support for “Inventory, Information, and Research Accomplishments in the Great Swamp,” Wildlife Conservation Society, NY Metro Program, 1997.

**Doris Duke Charitable Foundation**

Funding for Wildlife Conservation Society, Metropolitan Conservation Alliance Program, 1999, 2001.

**Leo Model Foundation**

Wildlife Conservation Society, Tanzania Biodiversity and Training Program, 1997.

**The Bay Foundation**

Support for “Assessment of Amphibian and Reptile Biodiversity in Tanzania’s National Parks,” 1995-1997.

**Geoffrey Hughes Foundation**

Support for Massachusetts/Connecticut bog turtle ecosystem study, 1995-1997.

**The Norcross Wildlife Foundation**

Funding for the Wildlife Conservation Society, International Programs, 1995-1997.

Support for the publication of “Amphibians and Reptiles of Connecticut and Adjacent Regions,” 1993.

Funding for Turtle Recovery Program, American Museum of Natural History, 1991-1992.

**United States Department of Agriculture (Forest Service)**

Support for "Conservation, Restoration, and Management of Tortoises and Freshwater Turtles-An International Conference," 1993.

**United States Department of Defense (Legacy Program)**

Support for "Conservation, Restoration, and Management of Tortoises and Freshwater Turtles-An International Conference," 1993.

**National Science Foundation**

Support for "Conservation, Restoration, and Management of Tortoises and Freshwater Turtles-An International Conference", 1993.

**United State Department of the Interior (Bureau of Land Management)**

Support for preparing conference proceedings "Conservation, Restoration, and Management of Tortoises and Freshwater Turtles-An International Conference," 1993.

Support for "Conservation, Restoration, and Management of Tortoises and Freshwater Turtles-An International Conference", 1992.

**Wildlife Conservation International (Now WCS International Programs)**

Field Assessment of the Status and Exploitation of the Pancake Tortoise (*Malacochersus tornieri*) in Tanzania, 1992.

**John D. and Catherine T. MacArthur Foundation**

Tropical Rainforests: Can We Regain Paradise Lost? (educational programming grant), 1990.

Capacity building in Tanzanian National Parks: Biodiversity assessment and monitoring, 1994-1998.

**FUNDRAISING EXPERIENCE: NGO, COPORATE  
& INDIVIDUAL SUPPORT**

Acorn Foundation

American Federation of Herpetoculturists

Aquarion Co.

Roland Betts

Brystie, Inc.

California Turtle and Tortoise Club

Camden House Publishing

Chelonia Institute

Chicago Zoological Society

Conservation and Research Foundation

Conservation International (*2 grant awards*)

Desert Tortoise Council (*2 grant awards*)

Martin Diamond (*multiple grant awards*)

Dorothy R. Donnelley Charitable Trust (*6 grant awards*)

Gordon Douglas

Institute for Herpetological Research.

J. P. Morgan & Co

IUCN/SSC Trade Specialist Group

Jersey Wildlife Preservation Trust (*2 grant awards*)

Knoxville Zoological Gardens

Leyland Alliance

New York Return A Gift to Wildlife (*2 grant awards*)

New York Turtle and Tortoise Society (*3 grant awards*)

Norcross Wildlife Foundation (*3 grant awards*)

Oklahoma City Zoological Park

Peter Scott Fund-IUCN (*3 grant awards*)

Sabin Conservation Fund (*7 grant awards*)

Saint Augustine Alligator Farm

Sweet Water Trust (*2 grant awards*)

Tampa Bay Herpetological Society

Tennessee Aquarium

Tipton and Maglione

US Fish and Wildlife Service

Dr. Lucy Waletzky