

NATURAL AREAS CONFERENCE
WORKSHOP: MONITORING RARE SPECIES AND NATURAL AREAS
September 10, 1985

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| 8:30-10:00 | 1. Introduction: Why monitor natural areas and species?
Speaker: Mark Heitlinger, Midwest Regional Office of The Nature Conservancy (Minnesota) | 20 min. |
| | 2. Overview of current monitoring projects
Speaker: Mary Palmer, North Carolina Plant Conservation Program | 20 min. |
| | 3. Prioritization or selection of monitoring projects
Speaker: Guy Denny, Ohio Division of Natural Areas & Preserves (20 min.)
Discussion led by Robert Sutter, North Carolina Plant Conservation Program (30 min.) | 50 min. |
| 10:20-12:00 | 4. Monitoring natural areas
Introduction: Jennifer Windus, Ohio Division of Natural Areas & Preserves
A. Photographic methods - ground photo stations
Speaker: Randy Nyboer, Illinois Department of Conservation
B. Mapping methods - from aerial photos & ground survey
Speaker: Gary Reese, Missouri Department of Conservation
C. Special features' methods - plant communities, water chemistry
Speakers: Paul Matthiae, Wisconsin Bureau of Endangered Resources
Barbara Andreas, Cuyahoga Community College (Ohio)
D. Visitor impact studies
Speaker: Ron Hiebert, Indiana Dunes National Lakeshore
E. Habitat manipulation
Speakers: John Schwegman, Illinois Department of Conservation
Jora Young, The Nature Conservancy (Ohio) | 20 min.
15 min.
15 min.
15 min.
15 min.
15 min. |
| LUNCH | | |
| 1:15-3:15 | 5. Monitoring plant species
Introduction: Robert Sutter, North Carolina Plant Conservation Program
A. Counting plants
Speaker: Eric Menges, Butler University (Indiana)
B. Censusing plots
Speaker: Marlin Bowles, Illinois Natural Land Institute
C. Demographic monitoring
Speakers: Eric Menges, Butler University (Indiana)
Steve Chaplin, Midwest Regional Office of The Nature Conservancy (Minnesota)
D. Manipulative demographic monitoring
Speaker: Robert Sutter, North Carolina Plant Conservation Program
E. Discussion | 10 min.
20 min.
20 min.
30 min.
20 min.
20 min. |
| 3:30-5:00 | 6. Experimental design
A. Statistical considerations
Speaker: Ralph Boerner, The Ohio State University
B. Open discussion of methods led by Robert Sutter, North Carolina Plant Conservation Program:
Plots - shape, size, and number
Plot placement - randomization, transects
Controls
Treatments - types, randomization
Marking & measuring individuals
Streamlining, simplifying, and reducing costs
(informal show-and-tell by all monitoring programs) | 20 min.
20 min. |

Informal discussion and slides after dinner.

TWELFTH ANNUAL NATURAL AREAS CONFERENCE

Camp Kern, Oregonia, Ohio
September 9-12, 1985

Co-sponsored by: Ohio Department of Natural Resources
Division of Natural Areas and Preserves
and the Natural Areas Association

A G E N D A

September 9, 1985 - Monday

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| 2:00-4:00 p.m. | Natural Areas Journal Editorial Advisory Board Meeting - Lodge. |
| 4:00-6:00 p.m. | N.A.A. Board of Directors Meeting - Lodge |
| 4:00-6:00 p.m. | Registration - Lodge |
| 6:00-7:15 p.m. | Dinner - Cafeteria |
| 7:15-8:00 p.m. | Registration - Lodge |
| 7:30-8:15 p.m. | Introduction to the Conference
Richard Moseley, Jr., Chief, Division of Natural Areas & Preserves |
| | Tom Sherman, Deputy Director, Department of Natural Resources |
| | Bob McCance, President, Natural Areas Association |
| | Mike Sherman, Assistant Director, Camp Kern |
| 8:15-9:15 p.m. | Slide Show by Guy Denny, Assistant Chief, Division of Natural Areas & Preserves, "Ohio's Rare Plants and Unusual Habitats" |
| 9:15-? | Continuation of N.A.A. Board of Directors Meeting (if necessary) |
| 9:15- | Mixer - Cafeteria |

September 10, 1985 - Tuesday

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| 7:15-8:15 a.m. | Breakfast - Cafeteria |
| 7:30-8:30 a.m. | Registration - Lodge |
| <u>Locations for All Sessions:</u> | |
| Session "A" - In Main Lodge | |
| Session "B" - In Geology Room (4 min. walk from Lodge) | |
| Session "C" - In Sugar Woods Room (6 min. walk from Lodge) | |

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| 8:30-10:00 a.m. | SESSION I |
| Session 1A | Monitoring Workshop, Lodge (all day - see last sheet of this agenda). |
| Session 1B | "Preserve Management Plan Development - The Process", Geology Room |
| | - Walt Matia, Director of Stewardship, The Nature Conservancy, "Preserve Management Planning - Some Experiences of TNC". |

- Don McFall, Natural Areas Program Manager, Illinois Department of Conservation, "Planning Procedures of the Illinois Department of Conservation".

- John Feingold, Trust for Public Land, Massachusetts, "Developing Natural Area Management Plans in State Governments without Preserve Systems".

Session 1C "The Role of Interpretation for Natural Areas Programs", Sugar Woods

- Jim Malkowski, Past President, Nat. Association of Interpretive Naturalists, "The National perspective on interpretation of natural areas, nature preserves and protected lands".

- Sam Vaughn, Indiana Dunes National Lakeshore, "Preservation Through Use".

- Wanda Doolen, Naturalist, Sam Baker State Park (Missouri), "A naturalist's perspective on a state natural areas program: methods and techniques of interpreting a preserve system".

10:00-10:20 a.m. Break

10:20-Noon **SESSION 2**

Session 2A Monitoring Workshop, Lodge (all day).

Session 2B "Facility Development and Maintenance in Natural Areas", Geology Room

- Dr. Julie McQuary, Department of Horticulture and Landscape Architecture, Washington State University. "Facility Development in Natural Areas".

- Audience Participation - Response and Discussion.

Session 2C "Scenic River Conservation: Linear Natural Areas", Sugar Woods

- Stu Lewis, Administrator, Ohio Scenic Rivers Program. "Purpose and Philosophy of the Ohio Scenic Rivers Program".

- Ohio Scenic Rivers Staff, "Conservation techniques along Scenic Rivers - stream bank stabilization, special projects, environmental review and land acquisition".

"Influencing local governments to save rivers".

Noon-1:00 p.m. Lunch, Cafeteria.

Session 7B

Moths and Birds

"Preserves as Refuges for Butterflies and Moths".

- Reed Watkins, Chairman, Ohio Survey of Lepidoptera.
- John Shuey, The Ohio State University.
- Eric Metzler, Ohio Department of Natural Resources.

- Dan Rice, Zoologist, Ohio Division of Natural Areas & Preserves. "Advantages of a Breeding Bird Atlas to Natural Area Inventories".

10:00-10:20 a.m. Break

10:20-Noon **SESSION 8 (Main Lodge Only)** Agency Plans

- Art Stewart, Acting Chief, Natural Landmarks Branch, National Park Service. "Status of the National Natural Landmarks Program".

- Dr. DeVon Nelson, Regional Ecologist, U.S. Forest Service, Milwaukee, WI. "Research Natural Areas and Forest Service Plans in the East".

- Natural Areas Association new president. "The Goals Ahead".

Noon-1:00 p.m. Lunch

Conference Adjournment 1:00 p.m.

6:00-7:00 p.m. Dinner

7:00-8:00 p.m. Break

Evening Program 8:00 p.m. - ?

Cafeteria - Mixer

Lodge - Slide Shows by conference participants. Sign up for a time slot on lodge door.

September 11, 1985 - Wednesday

7:15 - 8:15 a.m. Breakfast

8:30 - 10:00 a.m. **SESSION 5**

Session 5A & 6A "Restoration Ecology and Ecological Management", Lodge.

- Keith Wendt, Minnesota Natural Heritage Program, DNR, "Introduction: Restoration and its role in natural areas management".

- William Jordan III, University of Wisconsin Arboretum, "An Overview: 50 years of restoration and management at the University of Wisconsin Arboretum".

- Tom Bonnickson, University of Wisconsin, Department of Forestry, "Restoring and maintaining naturalness in forest ecosystems".

Session 5B Plant Conservation Laws: Their value to natural area programs and strategies for passage, Geology Room.

- Paul Somers, Tennessee Natural Heritage Program, "Tennessee Plant Conservation Law - Strategy and Results".

- Tom Hampton, New Jersey Department of Natural Lands Management, "Promoting Passage of a Plant Conservation Law in New Jersey".

- Linda McMahan, Center for Plant Conservation (previously with Plant Conservation Project of World Wildlife Fund - US), "The value of plant conservation laws and their status in the United States".

Session 5C" Landowner Negotiations and Registry Programs .

- Harry Tyler, Maine Critical Areas Program, "Maine's Landowner Contact Program".

- Jeff Knoop, Registry Program Director, Ohio Field Office, TNC, "Progress Report on TNC Registry Programs".

- Wendy O'Neil, Director, Michigan Natural Areas Registry, "Selling Registry and Protection: Sales Techniques for Landowner Negotiations".

10:00-10:20 a.m. Break

10:20-Noon **SESSION 6**

Session 6A (Continuation) Restoration Ecology and Ecological Management.

- Allen Steuter, Niobrara Valley Preserve, TNC, Nebraska, "Grazing as an ecological restoration tool on large prairie preserves".

- Steven Jones, West Chester University, Department of Biology, Pennsylvania, "Passive management and restoration of a sandhill prairie lizard community".

- Discussion of Restoration Ecology.

Session 6B Land Trusts as a Land Preservation Strategy .

- Rose Harvey, Project Manager, Trust for Public Land, New York, "Land Trusts as a Land Preservation Strategy".

- Russ Cohen, The Hillside Trust, Cincinnati, Ohio, "Real Life Experiences with a local land trust".

Session 6C Plant Protection and Highway Departments

- Kim Herman, Michigan Department of Transportation, "Protecting plants along highways: the highway department perspective".

- Ginny Wallace, Missouri Department of Conservation, "Native plant restoration and protection of rare plants along Missouri highways".

- Dr. David Northington, National Wildflower Research Center, Texas, "Activities of the National Wildflower Research Center".

Noon-1:00 p.m. Lunch (some field trips require brown bag lunches).

FIELD TRIPS

Noon or 1:00 to as late as 6:00 p.m.

See Field Trip List.

6:30-7:30 p.m. Dinner

8:00-9:15 p.m. Natural Areas Association Annual Meeting (open to members and non-members alike!)

Nominees:

President: Glenn Juday, Institute of Northern Forestry, Alaska.

Vice-President: Sarah Greene, U.S. Forest Service, Oregon.

Secretary/Treasurer: George Fell, Natural Land Institute, Illinois.

3-Year Terms: Dan Cheatham, University of California, CA.
Art Stewart, National Park Service, D.C.
Tom Hampton, New Jersey Office of Natural Lands Management.
Lydia Meyer, Department of Conservation, Illinois.

9:30-10:15 p.m. Techniques for Collecting and Identifying Moths,
Location to be announced, Eric Metzler, Ohio
Lepidopterists.

9:30 - ? Slide shows by conference participants. Sign up for time slots on lodge door.

September 12, 1985 - Thursday

7:15-8:15 a.m. Breakfast

8:30-10:00 a.m. **SESSION 7**

Session 7A Ex Situ Plant Preservation

- Don Falk, Center for Plant Conservation, Massachusetts, "Activities of the Center for Plant Conservation".

- Charlotte Jones-Roe, North Carolina Botanical Garden, "Activities of the North Carolina Botanical Garden".

- Brian Parsons, Holden Arboretum, Ohio, "Midwest Preservation Plans".

1:15-3:00 p.m. **SESSION 3**

Session 3A Monitoring Workshop, Lodge.

Session 3B "Constituency Development for Natural Areas Programs",
Geology Room.

- Charles Roe, North Carolina Natural Heritage Program Coordinator, "The North Carolina Experience - Growing Support for Preservation".

- Harold Grimmett, Director, Arkansas Natural Heritage Commission, "The Arkansas Experience - Influencing Influential Constituents".

- Audience, "General Discussion of Importance of Constituency Development - Problems, Strategies and Results".

Session 3C & 4C "Aerial Photo Interpretation - The Search for Natural Areas". A hands-on training session, coordinated by Jim Aldrich, Indiana Division of Nature Preserves. Restricted to 25 participants - prior registration required. Please sign up at conference registration desk. This session continues until 5:00 p.m.

3:00-3:20 p.m. Break

3:20-5:00 p.m. **SESSION 4**

Session 4A Monitoring Workshop, Lodge.

Session 4B "Strategies for Passage of State Natural Area Dedication Laws".

- Charles Roe, North Carolina Natural Heritage Program, "Passage of the North Carolina Law - Strategy and Results".

- Cliff Germain, Wisconsin Scientific Areas Program, "Adding a dedication law to the Wisconsin natural areas program".

- Nat Williams, Legislative Representative, The Nature Conservancy, "How TNC develops strategies for passage of state dedication laws".

Session 4C "Aerial Photo Interpretation" (continuation).

5:00-6:00 p.m. Break