

## 2001: A SPATIAL ODYSSEY SEARCHING FOR A NATURAL BALANCE

OCTOBER 3-6, 2001

CAPE CANAVERAL FL, USA

28th Annual Natural Areas Association Conference Hosted by

LOCATION: RADISSON RESORT

# Natural Areas Association

## DYNAMAC

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#### Special points of interest:

- Invasive Species Symposium hosted by the National Association of Exotic Pest Plant Councils
- Fire Forum hosted by NAA's Management and Technology Committee
- Indian River Lagoon Blocomplexity Symposlum hosted by Hubbs-SeaWorld Research Institute
- Communicating Nature Special Session hosted by Natural Areas Association
- Natural Areas In Your State Symposium hosted by Program Assistance Committee of the Natural Areas Association

## **Sponsors**

Archbold Biological Station
Bureau of Land Management
Dynamac Corporation
Exotic Pest Plant Council of Florida
Florida Department of Environmental Protection:
Division of Invasive Plant Management
Division of Recreation and Parks
Hubbs-SeaWorld Research Institute
Monsanto Company
National Park Service
Northwest Florida Water Management District

Northwest Florida Water Management District
South Florida Water Management District
Southwest Florida Water Management District
St. Johns River Water Management District
Suwanne River Water Management District
The Nature Conservancy of Florida
U.S. Forest Service

U.S. Forest Service
U.S. Geological Survey

## **Contributors**

Brevard County Environmentally Endangered Lands
Program

~USDA = 88/2

## **Welcome and Keynote Presentations**

Wednesday, October 3, 1:00-1:20 pm

CARL BECKER, Natural Areas Association President

Opening and Introductions.

ROSS HINKLE, NASA Life Sciences Support Contract—Dynamac Corporation, Kennedy Space Center, FL. Welcome to 2001 A Spatial Odyssey Searching for a Natural Balance.

Wednesday, October 3, 1:20-2:10 pm

NOSS, REED F. Conservation Science, Inc., 7310 NW Acorn Ridge, Corvallis, OR.

Considering connectivity in conservation planning.

## **Plenary Presentations**

Wednesday, October 3, 2:10-2:50 pm

# D = 105 M SIMBERLOFF, DAN. University of Tennessee, Nashville, TN.

We can win the war against introduced species.

Thursday, October 4, 8:20-9:00 am

PLATT, WILLIAM J. Louisiana State University, Baton Rouge, LA.

Experimental fire ecology: general concepts and prescribed fire management of pine savanna landscapes.

Thursday, October 4, 9:00-9:40 am

BELLEVILLE, BILL, JAN DEBLIEU, AND JANISSE RAY.

The landscapes we love.

Everyone has a landscape to which they feel a special attachment. And with the world's natural areas under siege, everyone has seen their special places threatened by development and pollution. In this plenary session, writers Bill Belleville, Jan DeBlieu and Janisse Ray will talk about the great Southern landscapes they love and the threats that face each one.

Saturday, October 6, 8:20-9:00 am

HINKLE, C. ROSS, Dynamac Corporation, Mail Code: DYN-1, Kennedy Space Center, FL. Understanding the Biocomplexity of the Indian River Lagoon System - Bridging the Gap to Sustainability.

Saturday, October 6, 9:00-9:40 am

BRUNCKHORST\*, DAVID J. AND P. COOP. Institute for Rural Futures and UNESCO Centre for Bioregional Resource Management, University of New England, Armidale, New South Wales, Australia. Triumph of the Commons: Cross-property synergies for ecological conservation and restorative land use.

## **2001 Natural Areas Association Awards Banquet**

Friday, October 5, 7:00-11:00 pm

Presentation of the NAA 2001 George B. Fell and the Natural Areas Stewardship Awards Banquet Guest Speaker—Larry Richardson, U.S.F.W.S. Panther Refuge, FL.

Silent/Live Auction, Raffle & Entertainment



"Everyone has a landscape to which they feel a special attachment."

## General Agenda

Wednesday, Oct. 3, 2001

1:00 - 3:00 pm Keynote and Plenary - SALON II/III

3:00 - 3:20 pm Break

SALON II/III	JAMAICA	BERMUDA	ANTIQUA
Invasive Species	Natural Area	Program Assistance	Education Outreach
Symposium	Management	Workshop	

3:20- 5:00 pm Concurrent Sessions

6:30 - 9:30 pm SPATIAL ODYSSEY SOCIAL at KENNEDY SPACE CENTER

Buses will pick-up at the Radisson at 6:15 pm and return guests between 8:30 -9:30 pm

Thursday, Oct. 4, 2001

8:20 - 9:40 am Plenary Speakers - SALON II/III

9:40 - 10:00 am Break

10:00 - 11:40 am Concurrent Sessions

SALON II/III	JAMAICA	BERMUDA	ANTIQUA
FIRE Forum	"Landscapes We Love"	Program Assistance	Conservation Biology in
	Workshop	Workshop	Landscapes

12:00 - 1:00 pm LUNCH - Buffet Served Poolside

1:20 - 2:40 pm Concurrent Sessions

SALON II/III	JAMAICA	ANTIQUA
FIRE Forum	The Spatial Odyssey	Invasive Species

2:40 - 3:00 pm Break

3:00 - 4:20 pm Concurrent Sessions

SALON II/III	JAMAICA	ANTIQUA
FIRE Forum	Plant Ecology	Public Involvement

5:00 - 6:00 pm NAA Business Meeting and Elections

6:00 - 8:00 pm Annual National Association of EPPC Meeting-JAMAICA

7:30 - 9:30 pm Communicating Nature Special Session - SALON II/III

#### Friday, Oct. 5, 2001

7:00 am - 5:00 pm

FIELD TRIPS—Check departure time for your trip!

5:30 - 7:00 pm

Poster Session Social-MONTEGO

7:00 - 9:00 pm

NAA 2001 AWARDS BANQUET

9:00 - 11:00 pm

Silent/Live Auction & Entertainment

## Conference Agenda (continued)

Saturday, Oct. 6, 2001

8:00 - 9:40 am Plenary Speakers - SALON II/III

9:40 -10:00 am Break

10:00 - 11:40 am Concurrent Sessions



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SALON II/III	JAMAICA	ANTIQUA	MARTINIQUE	7
Biocomplexity Symposium	Endangered Species	Public Involvement NA (NV + I)	Policy and Economics	3

11:40 am - 1:00 pm LUNCH—On Your Own 1:00 - 3:00 pm Concurrent Sessions

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SALON II/III	JAMAICA	ANTIQUA
Restoration and Disturbance	Conservation in Practice	Management and Technology Workgroup on Fire and Invasives

3:00 - 3:30 pm Closing and Acknowledgements - SALON II/III

### **ANNOUNCEMENTS**

#### SILENT AUCTION

Items for the Silent Auction are located in SALON I and will be open for bids Wednesday through Friday during conference activities.

#### **SLIDE PREVIEW**

The NASSAU ROOM will be available daily from 7:30 am to 11:00 pm for you to review your slides for presentation.

#### **CONFERENCE OFFICE**

The BONAIRE ROOM is the conference office. If you need assistance check with the registration desk or see Terry Odell in the Conference Office. Enjoy the Conference!

#### **DINING OUT**

There are many local restaurants within walking distance from the Radisson. Port Canaveral also has many nightspots. Local information has been provided in your registration material. Feel free to ask the Radisson staff if you have questions or need directions.

#### WHERE'S THE BEACH

The Atlantic Ocean is approximately 1-mile due east of the hotel. There are several places to access the beach within Cape Canaveral. There are sharks out there so be CAREFUL!

#### SPECIAL MEALS

Vegetarian meals will be provided for guests that have indicated a meal preference on their registration forms. Please be considerate in requesting/taking a vegetarian dish if you did not

## Wednesday, October 3, 2001

## 1:00-3:00 pm—SALON II/III Keynote and Plenary

#### 1:20-2:10 pm

NOSS, REED F. Conservation Science, Inc., 7310 NW Acorn Ridge, Corvallis, OR. **Considering connectivity in conservation planning.** 

#### 2:10-2:50 pm

SIMBERLOFF, DAN. University of Tennessee, Nashville, TN. **We can win the war against introduced species.** 

#### 3:20-5:00 pm—SALON II/III

<u>Symposium:</u> Assessment of Invasive Pest Plants in Conservation; Important Implications for Management, Research and Policy

Hosted by the National Association of Exotic Pest Plant Councils

Sponsored by Florida Department of Environmental Protection and the Florida Exotic Pest Plant Council Organizer and Chair: Brian Bowen, Tennessee State Natural Areas Program Administrator, Tennessee Department of Environment and Conservation/Division of Natural Heritage Coordinator, Southeast Exotic Pest Plant Council

#### 3:20-3:40 pm

RANDALL, JOHN M. The Nature Conservancy, Wildland Invasive Species Program, University of California, Davis, CA. Mapping and assessing invasive plants at the landscape scale: can remote sensing, GIS and spatially explicit models help us?

#### 3:40-4:00 pm

HUSTON, MICHAEL. Environmental Sciences Division, Oak Ridge National Laboratory. **Environmental predictors of the probability, intensity, and duration of invasions by exotic plant species.** 

#### 4:00-4:20 pm

STOCKER, RANDALL K.\* AND A. FOX. Center for Aquatic and Invasive Plants, IFAS, University of Florida, Gainesville, FL Assessing the Assessments – Regional Efforts Lead to National Program?

#### 4:20-4:40 pm

DOREN, BOB. Florida International University. **Invasive Exotic Plants, Florida's Dilemma and Florida's Opportunity.** 

#### 4:40-5:00 pm

JUBINSKY, GREG. Environmental Program Manager Bureau of Invasive Plant Management. Florida Department of Environmental Protection's Upland Invasive Exotic Plant Management Program.

#### 3:20-5:00 pm -ANTIQUA

#### **Contributed Papers: Education and Outreach**

Chair: Craig Huegel, Dept. of Environmental Management, Tarpon Springs, FL

#### 3:20-3:40 pm

COLVERSON, PETER J. The Nature Conservancy, Gainesville, FL. The Natural Areas Training Academy.

#### 3:40-4:00 pm

JEFFORDS, MICHAEL R. Illinois Natural History Survey, Champaign, IL. **Photo-informatics, chaos theory, fractals, and the presentation of visual information.** 

## Wednesday, October 3, 2001

### 3:20-5:00 pm -ANTIQUA (continued)

**Contributed Papers:** Education and Outreach

Chair: Craig Huegel, Dept. of Environmental Management, Tarpon Springs, FL

#### 4:00-4:20 pm

BRENNAN, K. M. Palm Beach County Department of Environmental Resources Management, West Palm Beach, FL. **Using natural areas for ecoguide training.** 

#### 4:20-4:40 pm

GREEN, DEBORAH. Sabal Press, Longwood, FL. Paradise Preserved: Natural History of Canaveral National Seashore and Merritt Island National Wildlife Refuge

#### 4:40-5:00 pm

POST, SUSAN L.\*, ROBERT WIEDENMANN, MICHAEL JEFFORDS, AND DAVID VOEGTLIN. Illinois Natural History Survey, Champaign, IL. The color purple—a story about integrating a biological control program into education outreach.

#### 3:20-5:00 pm—JAMAICA

### **Contributed Papers:** Natural Areas Management in Florida

Chair: Dennis Hardin, Florida Division of Forestry, Tallahassee, FL

#### 3:20-3:40 pm

GORDON, DORIA R. \*<sup>1</sup>, A. C. COX<sup>1</sup>, G. S. SEAMON<sup>2</sup>, AND L. PROVENCHER<sup>3</sup>. 1-The Nature Conservancy, University of Florida Gainesville, FL, 2-The Nature Conservancy, Bristol, FL, 3-The Nature Conservancy, Kissimmee, FL. **Understory restoration in longleaf pine sandhills.** 

#### 3:40-4:00 pm

TAYLOR, D. SCOTT. Brevard Mosquito Control District, Valkaria, FL. Saltmarsh mosquito impoundment management in east central Florida.

#### 4:00-4:20 pm

BRANDT, LAURA A. U.S. Fish and Wildlife Service – A.R.M. Loxahatchee NWR, Boynton Beach, FL. Inventory, monitoring, and research for better management of our national wildlife refuges: examples from the Arthur R. Marshall Loxahatchee National Wildlife Refuge.

#### 4:20-4:40 pm

LIU, HONG. Florida International University, Miami, FL. **Breeding system and pollination of** *Chamaecrista keyensis*, a narrowly endemic herb of the Lower Florida Keys and implications forconservation.

#### 4:40-5:00 pm

KOPTUR, SUZANNE<sup>1</sup>, J. R. SNYDER<sup>2</sup>, M.S. ROSS<sup>3</sup>, C. BORG<sup>3</sup>, AND H. LIU<sup>1</sup>. 1 – Florida International University, Miami, FL, 2 – USGS Biological Resources Division, Ochopee, FL, 3-Southeast Environmental Research Center, Miami, FL. **Key Deer herbivory following fire in Lower Keys Pine Rockland.** 

## Wednesday, October 3, 2001

3:20-5:00 pm—BERMUDA

**Symposium:** Forming a Natural Areas Program in Your State (Session 1 of 2)

Hosted by the Program Assistance Committee of the Natural Areas Association.

Organizer: Ruark Cleary, Bureau of Invasive Plant Management, Tallahassee, FL

Chair: Carl Becker, President, Natural Areas Association and Illinois Dept. of Natural Resources.

3:20-3:40 pm

KNIGHT, GARY. Florida Natural Areas Inventory, Tallahassee, FL. **Discovering Nature: a scientific foundation** for natural areas programs.

3:40-4:00 pm

BACONE, JOHN. Indiana Department of Natural Resources, Indianapolis, IN. **The Indiana Nature Preserves Act:** a legal system of dedication.

4:00-4:20 pm

THOM, RICHARD H. Missouri Department of Conservation, Jefferson City, MO. **Establishing a comprehensive**, statewide natural areas system: some thoughts on getting started.

4:20-5:00 pm

BECKER, CARL<sup>1\*</sup>, DUANE DEFREESE<sup>2\*</sup>, BOB DJUPSTROM<sup>3\*</sup>, CLAY HENDERSON<sup>4\*</sup>, and DEAN SAUNDERS<sup>5\*</sup>. 1-Illinois Department of Natural Resources, Springfield, IL, 2-Hubbs-Sea World Research Institute, Orlando, FL, 3-Minnesota Scientific and Natural Areas, St. Paul, MN, 4-H&K Conservation Solutions, Orlando, FL, 5-Saunders Real Estate, Lakeland, FL. **Establishing a Natural Areas System in Florida: a panel discussion.** 

### **Presentations**

Thursday, October 4, 2001

8:20-9:40 am—SALON II/III Plenary

PLATT, WILLIAM J. Louisiana State University, Baton Rouge, LA. Experimental fire ecology: general concepts and prescribed fire management of pine savanna landscapes.

BELLEVILLE, BILL, JAN DEBLIEU, AND JANISSE RAY. The landscapes we love.

Everyone has a landscape to which they feel a special attachment. And with the world's natural areas under siege, everyone has seen their special places threatened by development and pollution. In this plenary session, writers Bill Belleville, Jan DeBlieu and Janisse Ray will talk about the great Southern landscapes they love and the threats that face each one.

10:00-11:40 am—SALON II/III Jamauca

**Symposium:** The Landscapes We Love

Organizer: Jeffrey Smith DeBlieu, The Nature Conservancy, Kill Devil Hills, NC

Bill Belleville, Jan DeBlieu and Janisse Ray will follow up on their plenary presentations with brief opening comments and will then lead an open discussion about hope. How can conservation professionals, activists, writers and others work together to sustain their energy and hope in the constant battle to save cherished landscapes from social and environmental threats?

## Thursday, October 4, 2001

#### 10:00-11:40 am-BERMUDA

**Symposium:** Natural Areas Next Door: Natural Areas Programs at the Local Level (Session 2)

Hosted by the Program Assistance Committee of the Natural Areas Association.

Organizer: Ruark Cleary, Bureau of Invasive Plant Management, Florida Department of Environmental Protection,

Tallahassee, FL

Chair: Jim Anderson, Lake County (Illinois) Forest Preserve.

#### 10:00-10:20 am

BIRCH, ANNE.\* Brevard County Environmentally Endangered Lands Program, Melbourne, FL. Financing the Future: local government endangered lands programs.

#### 10:20-10:40 am

BUCH, RAMESH P.\* AND EMILIE M. YOUNG \*2. 1- Alachua County Environmental Protection Department, Gainesville, FL, 2- Miami-Dade County Environmentally Endangered Lands Program, Miami, FL. Comparing land conservation programs in a highly urbanized Miami-Dade County to more rural Alachua County, Florida.

#### 10:40-11:00 am

BIRCH, ANNE and C. ROSS HINKLE, Brevard County Environmentally Endangered Lands Program and Dynamac Corporation. Environmentally Endangered Lands Acquisition and Conservation Program in Brevard County, Florida.

#### 11:00-11:20 am

COX, DAVID L., PhD.\* David Cox Consulting, Vero Beach, FL. Local Benefits of Natural Areas Acquisition: Critters, Cash & Kids.

#### 10:00-11:40 am—ANTIGUA

## **Contributed Papers:** Conservation Biology in Landscapes

Chair: Hilary Swain, Archbold Biological Station, Lake Placid, FL

#### 10:00-10:20 am

WEST, PAUL<sup>1</sup>, M. REUTER<sup>2</sup>, S.L. HORN\* <sup>2</sup>, R.L. SPARKS<sup>3</sup>, AND A. BESHARA<sup>4</sup>. 1 – The Nature Conservancy, Wisconsin Chapter, Madison, WI, 2 – The Nature Conservancy, Illinois Chapter, Peoria, IL, 3 – Illinois Water Resources Center, University of Illinois, Urbana, IL, 4 – The Nature Conservancy, Global Resources Center, Arlington, VA. An Action Plan for Landscape-scale Conservation in the Upper Mississippi River Ecosystem.

#### 10:20-10:40 am

GREENBERG, CATHRYN H. \*<sup>1</sup>, D. J. LEVEY<sup>2</sup>, C. KWIT<sup>2</sup>, S.F. PEARSON<sup>3</sup>, J.P. MCCARTY<sup>4</sup>, S. SARGENT<sup>5</sup>, AND R. MUM-ME<sup>5</sup>. 1- U.S. Forest Service, Asheville, NC. 2-University of Florida, Gainesville, FL, 3-Department of Natural Resources, Olympia, WA, 4-University of Nebraska, Omaha, NE, 5-Allegheny College, Meadville, PA. **Assessing the Importance of Fleshy Fruit to Vertebrate Biodiversity: A Long-Term Study.** 

### 10:00-11:40 am—ANTIGUA (Continued)

### **Contributed Papers:** Conservation Biology in Landscapes

Chair: Hilary Swain, Archbold Biological Station, Lake Placid, FL

#### 10:40-11:00 am

ODDY, DONNA M.\*<sup>1</sup>, AND I.J. STOUT<sup>2</sup>. 1-Dynamac Corp., Kennedy Space Center, FL, 2-University of Central Florida, Orlando, FL. **Demography of the threatened Southeastern beach mouse** (*Peromyscus polionotus niveiventris*) at its last stronghold.

#### 11:00-11:20 am

BREININGER, DAVID\* AND DONNA ODDY. Dynamac International, Kennedy Space Center, FL. Florida scrub-jay source-sink population dynamics in pine flatwoods.

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## Thursday, October 4, 2001

#### 11:20-11:40 am

BLACKADAR, JANET E.\*<sup>1</sup>, G.J. FORBES, AND S.P. BASQUILL<sup>2</sup>. 1-University of New Brunswick, Fredericton, NB, Canada, 2-Atlantic Canada Conservation Data Center, Sackville, NB. **Human-induced changes in the forest land-scape of Kejimkujik National Park from pre-European settlement to the present.** 

#### 10:00-11:40 am—SALON II/III

### Symposium: FIRE Forum - Ecological Fire Management I

Organizer and Chair: Randy R. Heidorn, Deputy Director for Stewardship, Illinois Nature Preserves Commission, Springfield, IL.

#### 10:00-10:20 am

BECKAGE, BRIAN\* AND W. J. PLATT. Louisiana State University, Baton Rouge, LA. The link between global climate and fire regime in Everglades National Park.

#### 10:20-10:40 am

SCHMALZER, PAUL A. Dynamac Corporation, Kennedy Space Center, FL. **Growth of oak-saw palmetto scrub through 10 years after fire.** 

#### 10:40-11:00 am

GLITZENSTEIN, JEFF S.\*<sup>1</sup>, DONNA R. STRENG<sup>1</sup>, DALE D. WADE<sup>2</sup>. 1-Tall Timbers Research Station, Tallahassee, FL, 2-USDA Forest Service, Southern Research Station, Athens, GA. **Effects of fire return interval on species composition and richness of South Carolina/east Florida longleaf pine flatwoods /savannas.** 

#### 11:00-11:20 am

RICKARD, JAMES K.\*<sup>1</sup>, DALE WADE<sup>2</sup>. 1- U.S. Fish and Wildlife Service, 2-U.S. Forest Service, Athens GA. **Herbaceous plant response to 2-year burning cycles applied at different calendar dates during the growing season.** 

#### 11:20-11:40 am

THAXTON, JARROD M.\* AND W. J. PLATT. Louisiana State University, Baton Rouge, LA. **Effects of small-scale fuel load variation on fire and shrubs in pine savanna.** 

### 1:20-2:40 pm— SALON II/III

#### **Symposium:** Fire Forum - Ecological Fire Management II

Organizer and Chair: Randy R. Heidorn, Deputy Director for Stewardship, Illinois Nature Preserves Commission, Springfield, IL.

#### 1:20-1:40 pm

HERKERT, JAMES R.\*1 AND WILLIAM D. GLASS<sup>2</sup>. 1-The Nature Conservancy, Peoria, IL, 2-Illinois Department of Natural Resources, Wilmington, IL. **The effects of prescribed fire on grassland birds: an analysis and comparison of long- and short-term responses.** 

#### 1:40-2:00 pm

PANZER, RON. Northeastern Illinois University, Chicago, IL. Compatibility of management burning with the conservation of insects within small, isolated prairie reserves.

#### 2:00-2:20 pm

STALMANS, MARC\*<sup>1</sup>, E. T.F. WITKOWSKI, AND K. BALKWILL. School of Animal, Plant and Environmental Sciences, University of the Witwatersrand, Johannesburg, Republic of South Africa; 1- present address: Mpumalanga Parks Board, Nelspruit, South Africa. Landscape management using a *laissez-faire* approach to fire in the Songimvelo Game Reserve, Mpumalanga, South Africa (1987-2000).

## Thursday, October 4, 2001

### 1:20-2:40 pm— SALON II/III (continued)

Symposium: Fire Forum - Ecological Fire Management II

Organizer and Chair: Randy R. Heidorn, Deputy Director for Stewardship, Illinois Nature Preserves Commission, Springfield, IL.

#### 2:20-2:40 pm

HUEGEL, CRAIG N. AND ANDY STEVENS\*. Department of Environmental Management, Tarpon Springs, FL. An innovative approach to prescribed fire in an urban Florida county.

#### 1:40-2:40 pm—ANTIQUA

Contributed Papers: Invasive Species

Chair: Katie Greenberg, US Forest Service, Asheville, NC.

#### 1:40-2:00 pm

CASTILLO, DANIEL. Florida International University, Miami, FL. Population analyses of managed cat (*Felis Catus*) colonies located in Miami-Dade County, Florida, Parks.

#### 2:00-2:20 pm

SOEHN, DANA A.\* AND K.D. JOHNSON. Great Smoky Mountains National Park, Gatlinburg, TN. Exotic Plant Field Species at Backcountry Horse Campsites in Great Smoky Mountains National Park.

#### 2:20-2:40 pm

MAGEE, TERESA K.\*<sup>1</sup>, P.L. RINGOLD<sup>2</sup>, AND M.BOLLMAN<sup>1</sup>. 1-Dynamac Corporation, Corvallis, OR, 2- U.S. Environmental Protection Agency, NHEEL-WED, Corvallis, OR. **An approach to assessing the condition of riparian plant communities in the John Day and Deschutes River Basins of eastern Oregon** 

#### 1:20-2:40 pm—JAMAICA

#### Contributed Papers: The Spatial Odyssev

Chair: Michael Ross, Florida International University, Miami, FL.

#### 1:20-1:40 pm

HARDIN, DENNIS\*<sup>1</sup>, DAVID W. CRUMPACKER<sup>2</sup>, AND ELGENE O. BOX<sup>3</sup>. 1-Florida Division of Forestry, FL; 2- University of Colorado, CO; 3- University of Georgia, GA. **Predicted effects of climatic change on trees and forest communities by the Florida plant species—climatic envelope model.** 

#### 1:20-2:40 pm—JAMAICA (continued)

#### **Contributed Papers:** The Spatial Odyssey

Chair: Michael Ross, Florida International University, Miami, FL.

#### 1:40-2:00 pm

BURZYCKI, GWEN

Miami-Dade Department of Environmental Resources Management, Miami, FL. The use of GIS/GPS technology to map invasive exotic plant distribution in the South Dade Wetlands, southeastern Florida

#### 2:00-2:20 pm

HOCTOR, T.\*, C. GOODISON\*, M. CARR, P. ZWICK, K. WHITNEY, AND W. ROBINSON RIETH. University of Florida, Gainesville, FL. Application of a GIS model to identify an ecological network for conservation planning in the southeastern United States.

#### 2:20-2:40 pm

KENNEDY, SUZANNE M. AND MARK D. EHLE. Brevard County Natural Resources Management Office, Melbourne, FL. A method for mapping and prioritizing natural community for conservation planning using GIS.

## Thursday, October 4, 2001

3:00-4:20 pm-SALON II/III

**Symposium:** Fire Forum Session 3: Issues Associated with Fire Management

Organizer and Chair: Randy R. Heidorn, Deputy Director for Stewardship, Illinois Nature Preserves Commission, Springfield, IL.

3:00-3:20 pm

ESHEE, JR., WILLIAM D.\* AND P. LIDDELL, JR. Mississippi State University, Mississippi State, MS. **Legal Trends** and Implications of Using Prescribed Fire.

3:20-3:40 pm

MARYNOWSKI, SUSAN\*<sup>1</sup> AND JAMES BRENNER\*<sup>2</sup>. 1-Pandion Systems, Gainesville, FL, 2-Florida Division of Forestry, Tallahassee, FL. Focus on fire - raising awareness and improving support for prescribed burning through the Fire in Florida's Ecosystems program.

3:40-4:00 pm

PRUSAK, ZACHARY A.<sup>1</sup> AND BRIAN TOLAND<sup>2</sup>. 1-Brevard County Parks and Recreational Department, Environmentally Endangered Lands (EEL) Program, Melbourne, FL, 2-Brevard County Office of Natural Resources Management, Viera, FL. **Brevard County's Valkaria Airport and Scrub-jays: Partners in Fire Management.** 

4:00-4:20 pm

NYBERG, DENNIS\*<sup>1</sup>, J.M. MARZALIK<sup>1</sup>, AND S. BULBULKA<sup>2</sup>. 1-University of Illinois at Chicago, Chicago, IL, 2-Burbank, IL. Volunteer prescribed burning: seven years in the Palos Forest Preserves of Cook County Illinois.

3:00-4:20 pm—JAMAICA

**Contributed Papers: Plant Ecology** 

Chair: Larry Barden, University of North Carolina at Charlotte

3:00-3:20 pm

RAYACHHETRY, MIN\*<sup>1</sup>, THAI VAN<sup>2</sup>, TED CENTER<sup>2</sup>, AND PAUL PRATT<sup>2</sup>. 1-Fort Lauderdale Research and Education Center, University of Florida, Fort Lauderdale, FL; 2-USDA-ARS, Invasive Plant Research Laboratory, Fort Lauderdale, FL. **Regenerative potential of** *Melaleuca quinquenervia* canopy seed reservoir in south Florida and Australia.

3:20-3:40 pm

DRAY, F. ALLEN\* $^{1,2}$ , G.S. WHEELER $^2$ , AND T.D. CENTER $^2$ . 1-Florida International University, Miami, FL, 2 – US Dept of Agriculture, Agricultural Research Service, Invasive Plant Research Lab, Fort Lauderdale, FL. **Genetic variation** within *Melaleuca quinquenervia* in Florida, and its effect on performance of biological control insects.

3:40-4:00 pm

WENNY, DAN. Illinois Natural History Survey, Savanna, IL. **Seed predation of two native tree species that invade grasslands.** 

4:00-4:20 pm

NAVARRETE-TINDALL, N.E.<sup>1\*</sup>, J.W. VAN SAMBEEK<sup>2</sup>, AND R.L. MCGRAW<sup>1</sup>. 1-University of Missouri-Columbia, MO, 2-USDA Forest Service, North Central Station, Columbia, MO. *Amorpha canescens, A. fruticosa, and A. nitens* adaptation to different light levels.

## Thursday, October 4, 2001

3:00-4:40 pm-ANTIQUA

**Contributed Papers: Public Involvement in Natural Areas** 

Chair: Abigail Rome, Independent Consultant

3:00-3:20 pm replaced by "Pablic involuement en invasive exoties"

YANOSKY, ALBERTO, JOSE L. CARTES, AND ANA M. MACEDO. Prócer Argüello 208 c/Quesada, Asunción, Paraguay. Private Efforts for the Conservation of Paraguayan Natural Areas.

3:20-3:40 pm

MARTIN, TRICIA A.\* AND CAROL TAYLOR. The Nature Conservancy, Lake Wales, FL. Volunteers in monitoring and management of nongame species on the Lake Wales Ridge

3:40-4:00 pm

NILON, CHARLES H.\*<sup>1</sup>, AND R. NEIL MOISEY <sup>2</sup>. 1-University of Missouri-Columbia, Columbia, MO, 2-University of Montana, Missoula, MT. Local residents' use and perception of greenspaces and natural areas in inner city St. Louis, Missouri.

4:00-4:20 pm

LINARES, FLAVIO\*. Peace Corps/Guatemala. 8a. Calle 6-55, Zona 9 - 01009 - Guatemala City, Guatemala. Contribution to the Natural Reserves Protection and Conservation by the Community Environmental Management Project-Peace Corps/G.

## **Field Trips**

Friday, October 5, 2001

Whooping Cranes & Forever Florida Ranch
 Schedule: 6:30 am – 4:30 pm
 Hosts: Florida Forever Ranch and Steve Nesbitt, Florida Fish and Wildlife Conservation Commission

**2. Exploring The Scrub Ecosystems of South Brevard County** Schedule: 8:00 am – 4:00 pm Hosts: Zach Prusak, Brevard Co. Environmentally Endangered Lands Program and Dave Breininger, Dynamac Corp.

3. Tosohatchee State Reserve

Hosts: Shane Belson, Florida Park Service

Schedule: 8:00 am - 5:00 pm

4. Disney Wilderness Preserve Hike/Swamp Buggy Tour

Host: The Nature Conservancy

Schedule: 8:00 am - 5:00 pm

Schedule: 7:00 am - 5:00 pm

5. St. Sebastian River State Buffer Preserve
Hosts: Keith Fisher, Florida Department of Environmental Protection CAMA

7. Pine Island Conservation Area Canoe/Hike Trip

Schedule: 8:00 am – 4:00 pm

Hosts: Lisa Smith and Mike Knight, Brevard Co. Environmentally Endangered Lands Program

8. Paddling the Merritt Island National Wildlife Refuge Schedule: 7:00 am - 1:30 pm

Hosts: Rick Shaffer, A Day Away Kayak Tours

**9.** Beginnings of the St. Johns River – Upper Basin Schedule: 7:00 am – 5:00 pm

Hosts: Ken Synder and Ed Garland, St. Johns River Water Management District

**10. Indian River Lagoon Boat Tour** Schedule: 8:30 am – 12:30 pm

Hosts: Captain Ron Thorstad, Space Coast Nature Tours

## **Field Trips**

## Friday, October 5, 2001

11. Banana River/Newfound Harbor/Sykes Creek Tour

Hosts: Bob Day, St. Johns River Water Management District

Schedule: 8:00 am - 12:00 pm

12. Habitat Restoration within the Archie Carr National Wildlife Refuge Schedule: 8:00 am - 5:00 pm

Hosts: Ray Moji and Mike Kantner, Brevard Co. Environmentally Endangered Lands Program

14. Juvenile Fisheries Monitoring Program

Schedule: 8:00 am - 12:00 pm

Hosts: Rich Paperno, Florida Marine Research Institute - Melbourne

15. Pelican Island National Wildlife Refuge Boat Tour

Schedule: 8:00 am - 3:00 pm

Hosts Paul Tritak, USFWS and Ron John, Florida Park Service

16. Enchanted Forest Sanctuary / Dicerandra Scrub Sanctuary | Schedule: 8:00 am - 3:30 pm

Hosts: Tami Robinson, Brevard Co. Environmentally Endangered Lands Program

17. Wekiwa Springs State Park

Hosts: Greg Walker, Florida Park Service

Schedule: 8:00 am—5:30 pm

## **Posters Presentations**

Friday, October 5, 2001

5:30-7:00 pm -MONTEGO

**Poster Session: Conservation in Landscapes** 

COOPRIDER, M.A., R.L. LARIMORE\*, AND J.E. EBINGER. Illinois Natural History Survey, Champaign, IL. Soils and vegetation of the Oliver's Grove region, Livingston County, Illinois.

MAZZOTTI, FRANK J.\*<sup>1</sup>, LEONARD G. PEARLSTINE<sup>1</sup>, AND LAURA A. BRANDT<sup>2</sup>. 1-Fort Lauderdale Research and Education Center, University of Florida, Davie, FL, 2-USFWS, A.R.M. Loxahatchee NWR, Boynton Beach, FL. **A Multi-Species/Habitat Ecological Evaluation of Alternative Everglades Restoration Plans.** 

BASEY, GARY L. AND K. BADGER. Ball State University, Muncie, IN. Using GIS and remote imagery to monitor the effects of fire management on plant communities at Big Oaks National Wildlife Refuge.

**Poster Session: Fire** 

LARIMORE, RICHARD L.\*, D. T. BUSEMEYER\*, AND J. E. EBINGER, Illinois Natural History Survey, Champaign, IL. *Asimina triloba* (L.) Dunal (pawpaw, Annonaceae) in the prairie peninsula of Illinois.

SCHAUB, RON. Dynamac Corporation, Kennedy Space Center, FL. **The Fire Weather Information Machine** (FWIM) – A Sub-System of the Fire Management and Analysis Network (FireMAN).

HUFFMAN, JEAN M. Louisiana State University, Baton Rouge, LA. Fire History of a Florida Barrier Island.

DOLAN, BENJAMIN J.\* AND G.R. PARKER. Purdue University, West Lafayette, IN. Understory response to disturbance: An investigation of prescribed burning and understory thinning treatments.

**Poster Session: Invasive Species** 

GAULT, ELIZABETH M.<sup>1</sup> AND R. WIEDENMANN<sup>2</sup>. 1-University of Illinois, Champaign, IL, 2- Illinois Natural History Survey, Champaign, IL. **The association of** *Alliaria petiolata* with native vegetation.

WIEDENMANN, ROBERT N., SUSAN POST, MICHAEL JEFFORDS, AND DAVID VOEGTLIN. Illinois Natural History Survey, Champaign, IL. Loosestrife on the run.

## **Posters Presentations**

## Friday, October 5, 2001

WALK, J.W.<sup>1</sup>, T.L. ESKER<sup>2</sup>, A.J. YOUNG<sup>2</sup>, AND MARK PHIPPS<sup>3</sup>. 1-University of Illinois, Urbana, IL, 2-Illinois Department of Natural Resources, Newton, IL, 3-Illinois Department of Natural Resources, Alton, IL. Range Expansion of the Exotic Eurasian Collared-Dove into Illinois.

Poster Session: Managing and Restoring Landscapes

LOWERY, LAURA C.\*¹, KATHY BRONSON², RONALD LOWERY³, AND CAROLYN SEKERAK³. 1-Ocala National Forest, Lake George District, FL, 2-Ocala National Forest, Seminole District, FL, 3-Ocala National Forest, Lake George District, FL, 4-Ocala National Forest, Seminole District, FL. **Use of a Geographic Information System to plan habitat management activities for Florida scrub-jay** (*Aphelocoma coerulescens*) in Ocala National Forest, Florida.

DATTILO-BAIN, KEITHA M.¹, C.A. DUNLEVY², AND P.A. SCHMALZER³. 1-Dynamac Corporation, Environmental Support Contract, MS-ESC, Patrick Air Force Base, FL, 2-Kimley-Horn & Associates, Raleigh, NC; 3-Dynamac Corporation, NASA Biological Sciences Branch, MS-DYN-2, Kennedy Space Center, FL. Rapid Quality Assessment for Scrub Habitat Restoration Efforts at Cape Canaveral Air Force Station, Florida.

HOFSTETTER, STEPHEN. Miami-Dade County DERM, Miami, FL. At the crossroads between property acquisition and wildlife management of the south Dade wetlands basin.

SNYDER, KENNETH L.\*, K. J. PONZIO, M. A. LEE, S. J. MILLER, AND M. C. MINNO. St. Johns River Water Management District, Palatka, FL. **Restoring pasture to floodplain marsh: the process.** 

BARKER, J.R.\*<sup>1</sup>, M. BOLLMAN<sup>2</sup>, AND P.L. RINGOLD<sup>3</sup>. 1-Dynamac Corporation, Corvallis, OR, 2-Dynamac Corporation, Corvallis, OR; 3-US EPA, Corvallis, OR. **Tree dominance in a riparian coniferous forest**.

WILLIAMS, CHARLES E.\*<sup>1</sup>, B. BROKAW<sup>1</sup>, AND W.J. MORIARITY<sup>2</sup>. 1—Clarion University, Clarion, PA, 2-USDA Forest Service, Allegheny National Forest, Warren, PA. **In-stream large woody debris loading and forest age on the Allegheny High Plateau: implications for riparian forest management.** 

ROSS, MICHAEL S.\*<sup>1</sup>, J. F. MEEDER<sup>1</sup>, P. L. RUIZ<sup>1</sup>, D. L. REED<sup>1</sup>, E. GAISER<sup>1</sup>, R. ALLEMAN<sup>2</sup>, AND SARAH BELLMUND<sup>3</sup>. 1-Florida International University, Miami, FL; 2-South Florida Water Management District, West Palm Beach, FL. **The L-31E Pilot Project: Coastal Restoration in Biscayne National Park.** 

WALTERS, LINDA\*<sup>1</sup>, LISA WALL<sup>1</sup>, AND R. GRIZZLE<sup>2</sup>. 1- Dept. of Biology, Univ. of Central Florida, Orlando, FL, 2- Jackson Estuarine Laboratory, Univ. of New Hampshire, Durham, NH. Recruitment of the oyster Crassostrea virginica on intertidal reefs in areas with intense boating activity.

O'REILLY-DOYLE, KATHY. Partners for Fish and Wildlife Program, U.S. Fish and Wildlife Service, Naples, FL. **Partners for Fish and Wildlife.** 

#### **Poster Session: Policy**

MATIUKAS, GINTARAS. Cornell University/ Lithuanian Ministry of Environment. Ithaca, NY. Nature Protection Areas System in Lithuania - Vision and Reality.

#### **Poster Session: Temporal Changes**

PERGAMS, OLIVER\* AND DENNIS NYBERG. University of Illinois at Chicago, IL. Museum collections of mammals corroborate the exceptional decline of prairie habitat in the Chicago region.

PERGAMS, OLIVER\* AND DENNIS NYBERG. University of Illinois at Chicago, IL. Live-trapping survey confirms analysis of museum data and the decline of prairie mammals in the Chicago region.

## Saturday, October 6, 2001

## 8:20-9:40 am—SALON II/III Plenary Speakers

#### 8:20 - 9:00 am

HINKLE, C. ROSS, Dynamac Corporation, Mail Code: DYN-1, Kennedy Space Center, FL. **Understanding the Bio- complexity of the Indian River Lagoon System – Bridging the Gap to Sustainability.** 

#### 9:00-9:40 am

BRUNCKHORST\*, DAVID J. AND P. COOP. Institute for Rural Futures and UNESCO Centre for Bioregional Resource Management, University of New England, Armidale, New South Wales, Australia. **Triumph of the Commons:**Cross-property synergies for ecological conservation and restorative land use.

#### 10:00 -11:40 am—SALON II/III

#### Symposium: Indian River Lagoon Biocomplexity

Hosted by Hubbs-Sea-World Research Institute

Organizer and Chair: Duane DeFreese, Hubbs-SeaWorld Research Institute, Orlando, FL

#### 10:00-10:20 am

GILMORE, JR, R. GRANT<sup>1</sup> AND ANSON H. HINES JR<sup>2</sup>. 1-Dynamac Corporation, Kennedy Space Center, FL, 2-Smithsonian Environmental Research Center, Edgewater, MD. **Evolution of regional biocomplexity: Aquatic diversity "hot spots"**, community patchiness along physical gradients.

#### 10:20-10:40 am

EHRHART, L. M.\*<sup>1</sup>, D.A. BAGLEY<sup>1</sup> and S.A. ECKERT<sup>2</sup>, 1-University of Central Florida; Orlando, FL. 2-Hubbs-Sea World Research Institute San Diego, CA. **Marine Turtles of the Indian River Coast: High and Low Technologies Reveal Links Throughout the Greater Atlantic Basin.** 

#### 10:40-11:00 am

WEISHAMPEL, JOHN F., Department of Biology, University of Central Florida, Orlando, FL. A Spatial Modeling Framework for Studying Biocomplexity of the Indian River Lagoon.

#### 11:00-11:20 am

DUNCAN, BREAN W. \*<sup>1</sup>, VICKIE L. LARSON<sup>2</sup>, AND PAUL A. SCHMALZER<sup>1</sup>, 1-Dynamac Corporation, Mailcode DYN-2, Kennedy Space Center, FL, 2- Dynamac Corporation, Orlando, FL.

Land Cover Alterations and Biocomplexity of the Indian River Lagoon.

#### 11:20-11:40 am

BACCHUS, SYDNEY T.\*, Applied Environmental Services, Athens, GA. Groundwater impacts: The unseen destroyer of terrestrial and nearshore natural biodiversity.

#### 10:00-11:40 am-JAMAICA

#### Contributed Paper: Endangered and Threatened Species

Chair: Joyce Maschinski, The Arboretum at Flagstaff, Flagstaff, AZ.

#### 10:00-10:20 am

PERGAMS, OLIVER\* AND DENNIS NYBERG. University of Illinois at Chicago, IL. Global conservation status of Franklin's ground squirrel (Spermophilus franklinii).

#### 10:20-10:40 am

GUO, JIAN\*, YONGHONG CHEN AND JINCHU HU. Institute of Rare Animals & Plants of Sichuan Normal College, Nanchong, P.R. China. Population Viability Analysis of Giant Panda in Yele Nature Reserve.

## Saturday, October 6, 2001

## 10:00-11:40 am-JAMAICA (continued)

### **Contributed Paper:** Endangered and Threatened Species

Chair: Joyce Maschinski, The Arboretum at Flagstaff, Flagstaff, AZ.

#### 10:40-11:00 am

BOETSCH, JOHN R.\* AND L. P. THOMAS. National Park Service, Prairie Cluster Long-Term Ecological Monitoring Program, Republic, Missouri. **Differential survivorship and fecundity of an endangered winter annual: the influence of microhabitat conditions.** 

#### 11:00-11:20 am

BLACK, DAVID W. South Florida Water Management District, West Palm Beach, FL. Characterization of the habitat of *Nemastylis floridana* (Iridaceae) in the DuPuis Management Area (Palm Beach Co., FL)

#### 11:20-11:40 am

SHARMA, JYOTSNA\*, T. P. HOLTSFORD, AND C. J. STARBUCK. University of Missouri, Columbia, MO. **Genetic Diversity in the Federally Threatened** *Platanthera praeclara* (Orchidaceae).

#### 10:00-11:20 am-ANTIGUA

### Contributed Papers: Natural Areas Identification and Inventory

Chair: Charlie Nilon, University of Missouri – Columbia.

#### 10:00-10:20 am

SCOTT, J. MICHAEL<sup>1</sup> AND FRANK W. DAVIS<sup>2</sup>. 1-U.S. Geological Survey, Department of Fish and Wildlife, University of Idaho, Moscow, ID 2-Donald Bren School of Environmental Science and Management, University of California, Santa Barbara, CA. Nature reserves: Do they capture the full range of America's biological diversity?

#### 10:20-10:40 am

RUIZ, GIL RODRIGUEZ. Osa Conservation Area, Costa Rica. The Osa conservation area: biodiversity and problem about relationship and sustainable use of the biodiversity.

#### 10:40-11:00 am

ARAYA, SARA E., Amistad Caribe Conservation Area, Ministry of Environment and Energy. Limon, Costa Rica.

The alliance between Amistad Caribe Conservation Area and The National Institute of Biodiversity: A model for saving, knowing and using biodiversity.

#### 11:00-11:20 am

HINES, MARTINA AND MARC EVANS\*. Kentucky State Nature Preserves Commission, Frankfort, KY. Current status of natural areas inventory and natural terrestrial communities in Kentucky.

### 1:00-3:00 pm—JAMAICA

#### **Contributed Papers:** Conservation in Practice

Chair: Gary Knight, Florida Natural Areas Inventory, Tallahassee, FL

#### 1:00-1:20 pm

DIBBLE, ALISON C.\*1, J. C. BRISSETTE<sup>2</sup>, D. FUNK<sup>3</sup>, AND S. C. FAY<sup>4</sup>. 1-U.S.D.A. Forest Service, Northeastern Research Station, Bradley, ME, 2-U.S.D.A. Forest Service, Northeastern Research Station, Durham, NH, 3-U.S.D.A. Forest Service, Northeastern Research Station, Durham, NH, 4-U.S.D.A. Forest Service, White Mountains National Forest, Laconia, NH. RNA criteria applied to three sites: Is RNA status appropriate in every case?

#### 1:20-1:40 pm

DIAMOND, DAVID D.\*, TAISIA M. GORDON, RONNIE LEA, AND C. DIANE TRUE. Missouri Resource Assessment Partnership, Columbia, MO. Conservation opportunity areas for the Midwestern USA.

## Saturday, October 6, 2001

#### **Contributed Papers: Conservation in Practice (continued)**

#### 1:40-2:00 pm

OETTING, JON\*, AMY KNIGHT, AND GARY KNIGHT. Florida Natural Areas Inventory, Tallahasssee, FL.

The Florida Forever Conservation Needs Assessment: A statewide review of significant ecological esources that informs Florida's environmental land acquisition for the next ten years.

#### 2:00-2:20 pm

KNIGHT, AMY\*, JON OETTING, AND GARY KNIGHT. Florida Natural Areas Inventory, Tallahasssee, FL.

FNAI Habitat Conservation Priorities: a new analysis to determine priorities for biodiversity protection in Florida.

#### 2:20-2:40 pm

YANOSKY, ALBERTO, RENE PALACIOS, AND CLAUDIA MERCOLLI. Prócer Argüello 208 c/Quesada, Asunción, Paraguay, ayanosky@mbertoni.org.py

Ten years of Mbaracayu conservation and development: a successful model in eastern Paraguay.

#### 2:40-3:00 pm

BARBORAK, JAMES R. Conservationist Mesoamerican and Caribbean Program, The Wildlife Conservation Society, wcsfl@afn.org

The Growing Role of Latin American Municipal Governments In Protected Area Management.

#### 1:00-3:00 pm—SALON II/III

#### **Contributed Papers: Restoration and Disturbance**

Chair: Suzanne Kennedy, Brevard County Natural Resources Management, Viera, FL.

#### 1:00-1:20 pm

SLEISTER, RANDALL K. Volusia County Land Management Department, Daytona Beach, FL. Florida Scrub Jay Restoration and Protection in Volusia County, Florida.

#### 1:20-1:40 pm

RUIZ, PABLO L.\* AND MICHAEL S. ROSS. Southeast Environmental Research Center, Florida International University, Miami, FL. Population Dynamics of *Pinus elliottii* var. *densa* in Everglades National Park: A Case for Less Frequent Prescribed Fires.

#### 1:40-2:00 pm

SAH, JAY P. Department of Biological Sciences, Florida International University, University Park, Miami, FL. **Effects** of fire and grazing on structure, diversity and biomass production in seasonally flooded grasslands, Nepal.

#### 2:00-2:20 pm

McRAE, CATHERINE A.<sup>1</sup> AND LAWRENCE S. BARDEN\*<sup>2</sup>. 1- Law Engineering and Environmental Services, Inc., Charlotte, NC, 2- Department of Biology, University of North Carolina at Charlotte, Charlotte, NC. **Herbiciding and Girdling Trees: Two Techniques for Restoring a Piedmont Prairie.** 

#### 2:20-2:40 pm

SYMSTAD, AMY J. Illinois Natural History Survey, Savanna, IL, asymstad@inhs.uiuc.edu. **Establishing restoration** goals for a degraded sand prairie.

#### 2:40-3:00 pm

VLASHIN, MOJMIR. Ecological Institute Veronica of the Czech Union for Nature Conservation, Panská str.9, CZ-60200 Brno, The Czech Republic. **Logging Destroys Šhumava National Park** 

## Saturday, October 6, 2001

1:00-2:00 pm—MARTINQUE

**Contributed Papers:** Policy and Economics

Chair: Tricia Martin, The Nature Conservancy, Lake Wales, FL

1:00-1:20 pm

GREMLEY, KURT G.\*¹ AND EUGENE HENRY². 1-Hillsborough County, Tampa, FL, 2-Hillsborough County, Tampa FL. **Prospectus for using a portion of flood insurance premiums for the management of preservation lands.** 

1:20-1:40 pm

BAUER, GERALD P. US Forest Service International Institute of Tropical Forestry, Rio Piedras Puerto Rico & US Agency for International Development, Panama City, Panama.

Protected Area Management in the Panama Canal Watershed, Panama.

1:40-2:00 pm

REILLY, BRIAN\* AND T. HICKMAN. Illinois Department of Natural Resources, Springfield, IL. Changing competitors into partners for natural area protection.

1:00-3:00 pm -ANTIQUA

<u>Task Force Meeting:</u> Management and Technology Development Committee's Fire and Invasives Taskforce Meeting

3:00-3:30 pm —SALON II/III Closing and Acknowledgements

### **Exhibitors**

**SALON I Wed.-Sat., Oct 3-6, 2001** 

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