

Scientific Program

Thursday, 9 November - Morning

Holidome

- 8:10 AM **Jim Bednarz**, *Introductions and housekeeping*
- 8:15 AM **Les Wyatt**, President of Arkansas State University, *Welcoming Remarks*
- 8:20 AM **Hugh C. Durham, IV**, Director of the Arkansas Game and Fish Commission, *Opening Address*
- 8:30 AM **Mike Kochert**, President of the Raptor Research Foundation, *President's Remarks*

NORTH AMERICAN RAPTOR MONITORING STRATEGY (NARMS) WORKSHOP (CONCURRENT SESSION)

Moderators: NARMS Steering Committee

Crowley's Ridge Room

- 8:50 AM **NARMS Steering Committee**
Opening Remarks
- 9:00 AM **Karen Steenhof**, Laura Bond, Lynda Leppert, and Kirk K. Bates
The Midwinter Survey: An Approach to Monitoring Bald Eagle (Haliaeetus leucocephalus) Populations
- 9:20 AM **Kelly J. McKay** and Peter C. Petersen
Midwestern Raptor Population Trends as Determined by Forty Years of Christmas Bird Count Data
- 9:40 AM **Mark W. Miller** and Keith L. Bildstein
Use of Christmas Bird Counts to Estimate Regional Trends of North American Raptors, 1962-1999
- 10:00 – 10:20 AM Coffee Break
- 10:20 AM **John Sauer**
Trend Analyses of Christmas Bird Count Data on a Continent-Wide Basis

Thursday, 9 November - Morning

- 10:40 AM **Nick Bolgiano**, Laurie Goodrich, and Jeff P. Smith
Can a Synthesis of Data Sources Improve the Monitoring of Sharp-shinned Hawks?
- 11:00 AM **Mark Fuller**, Jon Bart, Mike Kochert, and Loren Ayers
Design for Estimating Status and Monitoring Golden Eagle Populations in the Western U.S.A.
- 11:20 AM Paul Grindrod, **Jeff P. Smith**, and Stephen W. Hoffman
*Migration Counts Indicate Broad-Winged Hawks Increasing in West—
Evidence of Breeding Range Expansion?*
- 11:40 AM **Geoff Holroyd** and Courtney J. Conway
Monitoring Burrowing Owls in Western North America.
- 12:00 PM **Lisa Takats**, Charles M. Francis, Geoffrey L. Holroyd, James R. Duncan,
Kurt M. Mazur, Richard J. Cannings, Wayne Harris, and Denver Holt
Guidelines for Nocturnal Owl Monitoring in North America
- 12:20 – 1:40 PM Lunch Break

CONCURRENT GENERAL SESSION I

Moderator: Michael McMillian, Archbold Biological Station

Craighead Room

- 8:40 AM **Ken De Smet**
*Status of the Burrowing Owl, Ferruginous Hawk, and Loggerhead Shrike in
Southeastern Manitoba, 1987-2000*
- 9:00 AM **Michael McMillian**
Long-term Trends in Osprey Nesting Populations on Lake Istokpoga, Florida
- 9:20 AM **John J. Keane** and Brian Woodbridge
*Distribution and Status of the Northern Goshawk (*Accipiter gentilis*) in
California*
- 9:40 AM **Wendy J. Burroughs**
*Utilization of Distribution Power Poles by Three Raptor Species and How
Utility Involvement and Community Partnerships Have Reduced Raptor
Electrocution in Tucson, Arizona*
- 10:00 - 10:20 AM Coffee Break

Thursday, 9 November - Morning

CONCURRENT GENERAL SESSION II

Moderator: Robert Rosenfield, University of Wisconsin at Stevens Point

Craighead Room

- 10:20 AM ***Joanna L. Coleman**, David M. Bird, and Eugene A. Jacobs
Nesting Ecology of the Sharp-shinned Hawk (Accipiter striatus) in Southern Quebec
- 10:40 AM ***Michelle M. Donaghy Cannon**, Brian J. Cannon, James C. Bednarz, Jennifer L. Bollmer, and Patricia G. Parker
Fledging Success and Parental Care in the Cooperatively Polyandrous Galapagos Hawk (Buteo galapagoensis)
- 11:00 AM ***Jeremy L. Jackson**, William D. Reed, James C. Bednarz, Loretta K. Potter, and Ronald E. Cossey
The Density of Nesting Red-shouldered Hawks in the St. Francis Sunken Lands, Arkansas
- 11:20 AM ***John Shook**
Productivity and Diet of Northern Hawk Owls (Surnia ulula) in Interior Alaska
- 11:40 AM ***Jennifer L. Norris**, Chris Kellner, and James Bednarz
Nesting Success and Post-fledgling Survival of Loggerhead Shrikes (Lanius ludovicianus) in Northeastern and Central Arkansas
- 12:00 PM ***Ruth E. Tingay**, Eric Hallerman, Melanie Culver, and Richard T. Watson
Sex, Lies and Dominance: Behavior and Paternity of Extra-Pair Madagascar Fish Eagles (Haliaeetus vociferoides)
- 12:20 - 1:20 PM Lunch Break

Thursday, 9 November - Afternoon

**NORTH AMERICAN RAPTOR MONITORING STRATEGY
(NARMS) WORKSHOP (CONCURRENT SESSION)**

Moderators: NARMS Steering Committee

Crowley's Ridge Room

- 1:40 PM **Mark Fuller**, Kirk Bates, and Sam Droege
An Evaluation of North American Migrant Hawk Counts: Magnitude of Counts Accumulated, Disposition of Data, and Utility as Indices for Monitoring Populations.
- 2:00 PM **Sam Droege**
How Often and at How Many Sites do I Need to Count Raptors?
- 3:20 – 3:40 PM Coffee break
- 3:40 PM **Various Authors**
Short Progress Reports - Species Modules
- 4:10 PM **NARMS Steering Committee**
Roundtable Discussion

CONCURRENT GENERAL SESSION III

Moderator: Paul Hamel, USDA Forest Service

Craighead Room

- 1:40 PM **Daniel E. Varland**
Forest Management for Northern Spotted Owls on Rayonier Lands of the Olympic Peninsula, Washington: The Wildlife Plan
- 2:00 PM ***Huisheng Chen**
The Nest Site Characteristics Selected by Formosan Crested Goshawk (Accipiter trivirgatus formosae) in Kenting National Park, Taiwan
- 2:20 PM **William Duncan** and Doris Hausleitner
Prey Composition, Activity and Vocalizations of the Northern Pigmy Owl (Glaucidium gnoma) in Southeastern Arizona
- 2:40 PM **Wendy A. Estes** and R. William Mannan
Differences in Diet and Rate of Prey Delivery at Urban and Non-urban Nests of Cooper's Hawks (Accipiter cooperii) in Southeastern Arizona
- 3:00 PM **Michael F. Ingraldi** and Steven S. Rosenstock
Relationship Between Weather and Productivity of Northern Goshawks (Accipiter gentilis) in East-Central Arizona Scientific Program

Friday, 10 November - Morning

FERRUGINOUS PYGMY-OWL SYMPOSIUM

Moderator: Russell B. Duncan, R. B. Duncan Associates, Environmental Consultants

Craighead Room

- 8:20 AM **Russell B. Duncan**
Opening Remarks
- 8:40 AM **Dennis J. Abbate**, W. Scott Richardson, and Renee L. Wilcox
Distribution and Demographics of Cactus Ferruginous Pygmy-Owls (Glaucidium brasilianum cactorum) in Arizona: A Review of the Most Recent Survey and Monitoring Results
- 9:00 AM **Wade L. Eakle**
The Cactus Ferruginous Pygmy-owl in Arizona and its Relationship to the Corps of Engineers Regulatory Program
- 9:20 AM **Russell B. Duncan**
The Distribution of the Cactus Ferruginous Pygmy-owl (Glaucidium brasilianum cactorum) in Western Mexico Based on Museum Records and Other Accounts
- 9:40 AM **Michael F. Ingraldi**, Renee L. Wilcox, Dennis J. Abbate, and W. Scott Richardson
Nest Site Habitat Selection by Cactus Ferruginous Pygmy-owls (Glaucidium brasilianum cactorum) in Arizona: Preliminary Results
- 10:00 – 10:20 AM Coffee Break
- 10:20 AM **Renee L. Wilcox**, Michael F. Ingraldi, Dennis J. Abbate, and W. Scott Richardson
Dispersal Patterns of Fledgling Cactus Ferruginous Pygmy-owls (Glaucidium brasilianum cactorum) in Southern Arizona
- 10:40 AM **D. Colby Henley**, Lisa K. Harris, Dennis J. Abbate, Sarah Lantz, and Aaron Flesch
Successful Rearing of Young by a Male Cactus Ferruginous Pygmy-Owl (Glaucidium brasilianum cactorum)
- 11:00 AM **Glenn A. Proudfoot**, Jody L. Mays, Sam L. Beasom, and Ralph Bingham
Effectiveness of Broadcast Surveys in Determining Habitat Use of Ferruginous Pygmy-Owls in Southern Texas.
- 11:20 AM **Russell B. Duncan**
Roundtable Discussion
- 12:00 - 1:20 PM Lunch Break

Friday, 10 November - Morning

CONCURRENT GENERAL SESSION IV

Moderator: Phillip Hughes, National Park Service

Crowley's Ridge Room

- 8:20 AM **Daniel E. Varland** and Jack L. Delap
Raptor Monitoring Along the Outer Coast of Washington, 1995-2000
- 8:40 AM ***Amy S. Roe**, Jennifer Wong, Virginia Waldrop, William Bowerman, Cheryl Summer, and David A. Best
Bald Eagles (Haliaeetus leucocephalus) as a Biosentinel of Mercury Exposure in the Upper Midwest
- 9:00 AM ***Scott A. Kimball** and Marc J. Bechard
Effects of an Increase in Nesting Bald Eagles (Haliaeetus leucocephalus) on Home Range and Foraging Habitat Use at Lake Cascade, Idaho
- 9:20 AM ***Daniel H. Kim**, Felipe Chavez-Ramirez, and Douglas Slack
There Goes the Neighborhood: Nearest Neighbor Distances Between Wintering Raptors in South Texas
- 9:40 AM ***Andi S. Rogers**, Michael F. Ingraldi, and Stephen Destefano
Use of Remote Camera Systems to Assess Northern Goshawk (Accipiter gentilis) Diet
- 10:00 - 10:20 AM Coffee Break

CONCURRENT GENERAL SESSION V

Moderator: Brian Millsap, Florida Fish and Wildlife Conservation Commission

Crowley's Ridge Room

- 10:20 AM **Phillip Hughes**
Roost Habitat Selection by Long-eared Owls, Great-horned Owls, Cooper's Hawks, and Sharp-shinned Hawks Wintering in Unmanaged Red Pine Plantations in Illinois
- 10:40 AM **Brian A. Millsap**, Tim Breen, Laura Phillips, Elizabeth McConnell, Tony Steffer, Nancy Douglas and Sharon Taylor
Comparison of Productivity and Survival of Bald Eagles (Haliaeetus leucocephalus) from Suburban and Rural Nest Sites in West-Central Florida
- 11:00 AM **Clint W. Boal**, David E. Andersen, and Patricia L. Kennedy
Breeding Season Home Range and Habitat Use of Male Northern Goshawks (Accipiter gentilis) in Minnesota

Friday, 10 November - Morning

- 11:20 AM **Robert N. Rosenfield**, John Bielefeldt and Travis L. Booms
Is There Inter-Year Variation in Nesting Phenology and Molt in Breeding Cooper's Hawks?
- 11:40 AM **Eugene A. Jacobs** and Glenn Proudfoot
An Elevated Net Assembly for Capturing Breeding Raptors
- 12:00 - 1:20 PM Lunch Break

Friday, 10 November – Afternoon

1:20 - 2:20 PM

PLENARY PRESENTATION

Crowley's Ridge and Craighead Rooms

Sidney A. Gauthreaux Jr. and Carroll G. Belser, Clemson University
Radar Monitoring of Migrating Raptors

2:20 - 2:40 PM Coffee Break

GENERAL SESSION VI

Moderator: Carol McIntyre, National Park Service and Oregon State University

Crowley's Ridge and Craighead Rooms

- 2:40 PM **Karen Steenhof**, Mark R. Fuller, Michael N. Kochert, and Kirk K. Bates
*Post-nesting Movements and Survival of Prairie Falcons (*Falco mexicanus*) as Determined by Satellite Telemetry*
- 3:00 PM **Mark M. Vekasy** and Jeff P. Smith
Migratory Movements of Western Raptors as Determined by Satellite Telemetry
- 3:20 PM **Casey A. Lott** and Timothy D. Meehan
Using Stable Isotopes to Estimate the Origins and Destinations of Migratory Raptors
- 3:40 PM **Kimberli J. G. Miller**, Nancy J. Thomas, and Tonie Rocke
*Unexplained Neurologic Disease in Bald Eagles (*Haliaeetus leucocephalus*), American Coots (*Fulica americana*) and Waterfowl in Arkansas, Georgia, North Carolina, and South Carolina.*
- 4:00 PM **Jennifer L. Bollmer**, Rebecca T. Kimball, Michelle Donaghy Cannon, James C. Bednarz, Tjitte DeVries, Didier Sanchez, Tania Sanchez, M. Susana Struve, and Patricia G. Parker
*Genetic and Morphologic Differentiation Among Island Populations of Galapagos Hawks (*Buteo galapagoensis*)*

Friday, 10 November – Afternoon

4:20 PM **Steven R. Sheffield**

Population Biology of the Northern Saw-whet Owl (Aegolius acadicus) in North America as Determined from Banding Station Data

Friday, 10 November, 8:00-11:00 PM

Poster Session Holidome

BRIAN L. ALLEN

A Telescopic, Rotational, Vehicle Mounted Mast for Radio Telemetry Antennas

***MICHAEL I. GOLDSTEIN** and TOBY J. HIBBITTS

Roadside Raptor Surveys in the Western Pampas of Argentina

PAUL B. HAMEL

Short-eared Owls (Asio flammeus) Using Old Fields of the Wetland Reserve Program in Mississippi

SARAH L. HAMILTON, PATRICIA J. HEGLUND, GREGORY S. KALTENECKER and

GREGORY C. GREENE

Ecology and Body Condition of the Northern Saw-whet Owl (Aegolius acadicus) and Flammulated Owl (Otus flammeolus) During Fall Migration in Southwest Idaho

***TODD E. KATZNER** and SERGEY L. SKLYARENKO

Status of Vulture Populations in a Region of Southeastern Kazakhstan

REBECCA T. KIMBALL, **JAMES C. BEDNARZ** and PATRICIA G. PARKER

The Occurrence of Cooperative Breeding in Falconiformes

***STEPHEN B. LEWIS** and KIM TITUS

Prey Delivery Rates to Northern Goshawk (Accipiter gentilis) Nests, Determined by Video Camera, in the Tongass National Forest, Southeast Alaska

CAROL L. McINTYRE, MICHAEL W. COLLOPY and DAVID DOUGLAS

Diversity of Migration Strategies and Establishment of Winter and Summer Ranges of Juvenile Golden Eagles (Aquila chrysaetos)

Friday, 10 November, 8:00-11:00 PM

Poster Session - continued

KELLY J. MCKAY, JON W. STRAVERS, GARY V. SWENSON, CASEY J. KOHRT and JOSEPH S. LUNDH

Summary of Red-shouldered Hawk (Buteo lineatus) Reproductive Success Along the Upper Mississippi River Valley, 1983-1997

KELLY J. MCKAY, JON W. STRAVERS, CASEY J. KOHRT, GARY V. SWENSON and JOSEPH S. LUNDH

Red-shouldered Hawk (Buteo lineatus) Nesting Activity and Floodplain Forest Timber Harvesting – Are They Compatible?

***PAUL M. RADLEY** and JAMES C. BEDNARZ

Habitat Use and Home Range of Fledgling Barn Owls (Tyto alba pratincola) in the Delta Region of Arkansas

DIANE L. ROWE, FREDERICK R. GEHLBACH, ***DANIEL H. KIM** and GLENN A. PROUDFOOT

Systematics of North American Screech-Owls

***NATHANIEL E. SEAVY** and CHRISTINE K. APODACA

Raptor Abundance and Habitat Use in a Highly Disturbed Forest Landscape in Western Uganda

***STEFAN WOLTMANN**

Winter Distributions Of Different Age and Sex Classes of Sharp-Shinned (Accipiter striatus) and Cooper's (A. cooperii) Hawks

Saturday, 11 November - Morning

GENERAL SESSION VII

Moderator: Steven Sheffield, U.S. Fish and Wildlife Service

Crowley's Ridge and Craighead Rooms

- 8:20 AM **Paul B. Hamel**, Christopher A. Woodson, and Fred J. Broerman
Winter Raptor Populations in Forest Restoration Areas in the Mississippi Delta, Mississippi
- 8:40 AM **Keisuke Saito**
Effects of Lead-Poisoning on Stellar's Sea Eagles and White-tailed Sea Eagles in Eastern Hokkaido, Japan
- 9:00 AM **C. Stuart Houston** and Frank Scott
Expansion of Osprey Range and Power Company Collaboration in Saskatchewan
- 9:20 AM **Nikolle L. Brown**
Swainson's Hawks (Buteo swainsoni) in the Southern San Joaquin Valley, California: An Overview
- 9:40 AM **Joan L. Morrison**, Gordon Court, Robert Kenward, Carol McIntyre, and Brian A. Millsap
Evaluation of the U.S. Fish and Wildlife Service Draft Environmental Assessment for Falconry Harvest of Nestling American Peregrine Falcons (Falco peregrinus anatum)
- 10:00 - 10:20 AM Coffee Break
- 10:20 - 12:20 PM **Business Meeting in Crowley's Ridge and Craighead Rooms**
- 2:30 PM **Busses leave from the Holiday for the River Boat Banquet**