

*REPORT:*

**THE RAPTOR RESEARCH FOUNDATION FALL MEETING**

November 23-25, 1974

University of Minnesota, St. Paul, Minnesota

by

Byron E. Harrell

The 1974 annual meeting was held at the Northstar Ballroom of the St. Paul campus Student Center of the University of Minnesota. The host committee consisted of Mark Fuller, Chairman, Gary Duke, P. B. Hofslund, Tom Nicholls, Chris Ray, Pat Redig, Paul Segmeir, and H. B. Tordoff. Groups that joined in sponsorship of the program included: Office of Special Programs, Bell Museum of Natural History, College of Veterinary Medicine, College of Biological Sciences, Department of Ecology and Behavioral Biology, Minnesota Falconers Association, Department of Entomology, Fisheries and Wildlife, University of Minnesota student chapter of the Wildlife Society. A booklet of abstracts of papers was prepared for participants. An excellent raptor art show included 85 works of over 35 North American artists. The session chairmen organized their respective sessions. Special guest speakers were Dr. Dean Amadon of the American Museum of Natural History, New York, who spoke on eagle adaptations, and Dr. J. E. Cooper, Clinical Research Centre, Middlesex, England, who spoke on anesthesia and vaccination in raptors.

In the following program an asterisk (\*) indicates the author who presented the paper.

*Friday, November 22*

Registration and informal get-together.

*Saturday, November 23*

H. B. Tordoff—Welcome and Overview of Raptor Research in Minnesota.

Dean Amadon—Eagles and Some of Their Adaptations.

**Bald Eagle Research Session**—L. D. Frenzel, Chairman

John E. Mathisen—Some Aspects of Bald Eagle Research and Management on the Chippewa National Forest, Minnesota.

L. D. Frenzel and Joel Kussman—Evaluation of Color-marking Techniques Used on Chippewa National Forest Bald Eagle Study.

Jon E. Swenson—Some Observations on the Status of Breeding Bald Eagles in Yellowstone National Park.

James P. Mattsson—Significance of Adult Territorial Behavior and Sub-adult Bald Eagle Activity at Sucker Lake, Michigan.

Paul Nickerson and Carl Madsen—A Successful Bald Eagle Egg Transplant

Sergei Postupalsky—Adoption of Nestlings and Acceptance of Man-made Nests by Bald Eagles.

Carl G. Thelander—Bald Eagle Reproduction in California, 1972-1974.

[L. D. Frenzel—Need for Revision of Bald Eagle Nest Protection Regulations; abstract only.]

**General Session**—P. B. Hofslund, Chairman

Donald A. Spencer—Raptors and the Chemical-oriented Future.

William Mattox—Migration and Chlorinated Hydrocarbons of the Peregrine Falcon in Greenland.

R. Fyfe and J. J. Armbruster—Western Canadian Raptor Banding.

Clayton M. White—Preliminary Data on Peregrine Populations in Victoria, Australia.

**Raptor Rehabilitation Session**—Roger Thacker, Chairman

P. T. Redig—Surgical Approaches to the Long Bones of Raptors.

Tom Donald—Successful Rehabilitation of Saskatchewan Prairie Falcons Parasitized by *Ornithodoros concanescens* (presented by Lynn Oliphant).

John C. Snelling—Rehabilitation of Raptors Donated to the Oklahoma City Zoo.

Tom A. Buchanan—Raptor Rehabilitation and Zoos.

**Telemetry Session**—T. C. Dunstan, Chairman

R. A. Huemphner and Mark R. Fuller—Winter Ruffed Grouse-Raptor Interactions.

Sara Jane Johnson—Social Behavior of Juvenal Red-tailed Hawks.

T. H. Nicholls—Territorial Behavior of Barred Owls as Determined by Radiotelemetry.

U. Banasch and R. Fyfe—Monitoring Prairie Falcon Movements Using Telemetry.

[L. H. Rummel, M. C. Perry, and E. M. Martin—Telemetric Observations of a Male and a Female Red-shouldered Hawk; abstract only.]

Telemetry Equipment Demonstration and Discussion

*Sunday, November 24*

**Population Dynamics Session**—C. M. White, Chairman

James A. Mosher—Raptor Populations in the Wasatch Mountains, Central Utah.

M. N. Kochert—Golden Eagle-Jackrabbit Relationship in Southwest Idaho.

N. D. Woffinden—Ferruginous Hawk Nesting Habitat Vacancy during a Jackrabbit Decline.

R. Howard—Breeding Biology of the Ferruginous Hawk in Northern Utah and Southern Idaho.

C. A. Campbell—Ecology and Reproduction of Red-shouldered Hawks in Southern Ontario.

W. A. Burnham—Peregrine Falcons in West Greenland and Factors Influencing Their Dynamics.

W. G. Hunt—Speculations on Natural Regulation of Population Size in the Peregrine Falcon.

James A. Gessaman and Scott W. Sawby—Kestrel Nest Box Study.

C. J. Henny—The Osprey Nesting Population along the South Atlantic Coast.

**Raptor Physiology Session**—G. E. Duke, Chairman

J. A. Gessaman and S. W. Sawby—Metabolism of an Incubating Kestrel.

James A. Mosher—Review of Raptor Energetics.

J. E. Cooper—Halothane Anesthesia in Raptors.

Steven C. Pierson and Mark R. Fuller—Methoxyfluorane Anesthesia in Raptors—Preliminary Results.

D. D. Rhodes and G. E. Duke—Cineradiographic Study of Gastric Motility in Captive Great Horned Owls.

G. E. Duke, O. A. Evanson, and A. Jegers—Meal to Pellet Intervals in 14 Species of Captive Raptors.

**Raptor Research Foundation Business Meeting**

**Raptor Management Session**—R. Fyfe, Chairman

M. N. Kochert—Raptor Research in the Snake River Birds of Prey Natural Area.

E. Mattingly—Falconry as a Means of Reducing Bird-Aircraft Strike Hazards at Whiteman Air Force Base, Missouri.

R. Fyfe and H. Armbruster—Raptor Management in Western Prairie Falcons.

[T. Smylie—Hacking Captive Produced Prairie Falcons; not given.]

**Ethology Session**—R. W. Nelson, Chairman

R. W. Nelson and J. A. Campbell—Captive Breeding and Behavior of Arctic Peregrines (a film and commentary).

**Informal Session**

David Bird—Slides on Gyrfalcons on Ellesmere Island.

Joseph Simonyi—Movie on Captive Breeding of Red-tailed Hawk.

R. W. Nero—Movie on Great Grey Owl.

*Monday, November 25*

**Ethology Session**—R. W. Nelson, Chairman

Joseph Murphy—Informal Report on Wedge-tailed Eagle.

R. D. Porter—Clutch Size Experiments with Captive American Kestrels.

L. W. Oliphant—Behavior of Merlins Nesting in an Urban Environment.

R. W. Nelson—Informal presentation on nesting immature Prairie Falcons.

J. A. Mosher—Golden Eagle Nest Size Selection.

R. W. Nelson—On the Diagnosis and “Cure” of Imprinting in Falcons Which Fail to Breed in Captivity.

[M. W. Collopy—Food Caching among American Kestrels Wintering in North-western California; abstract only.]

**Pathology Session**—P. T. Redig, Chairman

J. C. Cooper—The Role of Vaccination in Maintenance of Captive Raptors.

A. A. Kocan—Parasitic Diseases of Captive Raptors.

**Captive Breeding Session**—T. Cade, Chairman

J. Campbell—Breeding Merlins in Captivity.

David M. Bird and P. C. Lague—Successful Captive Breeding of American Rough-legged Hawks.

L. G. Swartz—Isolation of Pair Members during the Pre-breeding Period and Exclusion of Human Contact as Factors in Egg-laying in Captive Northern *anatum* Peregrines.

R. Ulbricht—Controlling and Manipulating the Behavioral Aspects of Captive Breeding—Forcing Immature Large Falcons to Breed Naturally.

J. C. Snelling—Experimental Incubation of American Kestrel and Red-shouldered Hawk Eggs.

R. W. Nelson—The Two Week Factor.

D. M. Bird and P. C. Lague—A Technique for Forced Artificial Insemination in American Kestrels, *Falco sparverius* (Linnaeus).

L. Boyd—Informal slides on Artificial Insemination.

R. Ulbricht—Therapeutic Backups in Preventing Human Imprinting—Transferring Sexual Preferences from Man to Bird.

[J. H. Enderson—Captive Breeding of Peregrines; abstract only.]

Informal Reports on Captive Breeding.

Persons in attendance are listed below according to state or country.

*Canada*: Alberta—Ursula Banasch, Steve Bradley, John A. Campbell, Richard Fyfe, Alora Nelson, R. Wayne Nelson, Philip Trefry; Manitoba—Nikki Gerrard, Peter Gerrard, David Hatch, Jerald Jacobson, R. W. Nero; Ontario—Craig A. Campbell; Quebec—David M. Bird, Eleanora MacLean; Saskatchewan—Robert Goodhope, Lynn Oliphant.

*England*: John Cooper.

*Peru*: Tony Luscombe.

*Scotland*: Laurence Frank.

*Alaska*: David D. Cornman, Jerry Swartz.

*California*: Jim B. Cranmer, Fidele de la Torre, Hans J. Peeters, James Rousch, Carl Thelander, Brian Walton.

*Colorado*: David E. Allen, William C. Andersen, Gerald D. Craig, Babette Cran-son, James H. Enderson, Paul Gertler, David E. Green, Alan Harmata, Charles Henny, Mr. & Mrs. Gordon Kearns, Patricia Kennedy, Steve Paulsen, Dale W. Stahlecker.

*Connecticut*: Roger Thacker.

*District of Columbia*: Richard R. Olendorff.

- Idaho:* Lester Boyd, Timothy H. Craig, Richard P. Howard, Sara Jane Johnson, Michael N. Kochert, Wayne E. Melquist.
- Illinois:* Thomas Dunstan, James F. Harper, Ronald L. Harshbarger, Bob Hinckley, Gary Larson, Jack Oar, Roger A. Olson, Robert Thorstenson, Krisa Thorstenson, Joseph Zawadowsky.
- Indiana:* B. Edwin Mattingley.
- Iowa:* Margaret E. Plouffe, Dean Roosa.
- Louisiana:* Robert S. Kennedy.
- Maryland:* Bob Nixon, Donald A. Spencer, Stanley N. Wiemeyer.
- Massachusetts:* James Baird.
- Michigan:* Patricia Adams, Ray Adams, Alfred Maley, James P. Mattson, Cynthia A. Payne.
- Minnesota:* N. Ross Adams, Cheryl Ahlstrom, Bruce Anderson, Gordon P. Anderson, Robert J. Anderson, Geri Arnold, Myles G. Bakke, Bonita Barnes, Jim Barrett, Donald Beimborn, W. J. Breckenridge, David Bruggers, Richard R. Buecctt, Elizabeth Cammack, Mrs. Elizabeth Campbell, Glenn S. Christianson, Tom Davis, John Davis, Gary E. Duck, Timothy M. Dyhr, Stephen R. Fagerlie, James D. Enser, Nina S. Fraser, L. D. Frenzel, Mark Fuller, Jon Gerard, Janet C. Green, Al Grewe, Jane Gull, Dave Halsey, Frederick Harris, Catharine Hearing, Pershing B. Hofslund, Ken Holkestad, Jeffrey Holmberg, Richard Huemphner, D. Michael Hulse, Brian Johnson, Mr. & Mrs. C. Johnson, Greg Johnson, Ronald E. Johnson, Mr. & Mrs. Greg Juenemann, Douglas C. Keran, Ronald Kneesern, Steve Lampman, Richard E. Lee, Jr., Steve Loll, Carl Madsen, James K. Malone, Lee Manske, John Mathisen, Frank McKinney, Sean Morgan, Tom Nicholls, Lewis F. Ohman, Dave Pauly, Richard Piefer, S. C. Pierson, Pam Pietz, Dan Pletscher, Mike Pramsteller, Pat Redig, Alan R. Samuelson, Roger Schnoes, Mick Sommer, Frederick C. Strand, W. Daniel Svedarsky, Franklin J. Soobada, Franklin Taylor, Robert J. Taylor, Elaine Thrune, Stephen Thrune, H. B. Tordoff, David B. Vesall, Rick Volkmar, Bruce Waage, Ryan B. Walden, Barbara Walker, Dwain Warner, David K. Weaver, Gary Weisenberger, Jim Winter.
- Missouri:* Jeffrey Peters, Judith Southern.
- Montana:* Jon E. Swenson.
- Nebraska:* Dale M. Becker, Michael A. McCoy, Allen Napier.
- Nevada:* Steve Baptiste, Dave Jamieson.
- New Hampshire:* Mike Wallace.
- New Mexico:* Philip L. Shultz.
- New Jersey:* Chris Heidenreich, Ed Henckel.
- New York:* Dean Amadon, Tom J. Cade, Phyllis Dague, James Skiff, John V. Skiff, Jim Weaver, David Zimmerman.
- North Dakota:* Jim Grier.
- Ohio:* David Lindsey, Mike Lindsey, William G. Mattox, Mike Sayers, Mike Sheard, Harvey B. Webster.
- Oklahoma:* A. Alan Kocan, John Langford, Steve Platt, Jim Reidy, John C. Snelling.

*Pennsylvania:* Benton H. Elliott, Rodney Gehrlein, William R. Heck, Jr.

*South Dakota:* Paul E. Bartelt, Byron E. Harrell, Joyce Harrell, Don Hunter, Curt Orde, Karen Steenhof, Merwyn M. Terry III.

*Texas:* Tom A. Buchanan, Curt Griffin, Grainger Hunt, J. Shawn Ogburn.

*Utah:* William Burnham, Philip K. Ensley, James A. Gessaman, James S. Mosher, Joseph R. Murphy, Richard D. Porter, Stellanie Ure, Neil Woofinden.

*Washington:* Robert H. Young.

*Wisconsin:* Alan Beske, Frederick Hamerstrom, Frances Hamerstrom, James T. Harris, E. Janeice Jensen, Ursula Peterson, Sergei Postupalsky, Jonathan Reed, Robert Ulbricht, John H. Wentland.

*Wyoming:* Frank C. Craighead, Jr.