

Cedar Shore Resort and Convention Center
Oacoma, South Dakota

27 February – 1 March 2017

MONDAY, 27 FEBRUARY

11:00 1:00 **Registration and Lunch (Sponsored by Truax Company)**

1:00 1:15 **Welcome and Introductions**

Special Session – Precision Conservation: The Interface of Wildlife, Agriculture, and People

1:15 2:00 **Precision Ag Business Planning: A New Approach to Conservation Delivery**
Rachel Bush, Pheasants Forever, Inc.

2:00 2:30 **Ranching for Conservation: Sustaining Biodiversity, Livelihoods, and Communities**
Dusty Downey, Audubon Rockies

2:30 3:00 **Sustainable Farming and Wildlife**
Bryan Jorgensen, Jorgensen Land & Cattle

3:00 3:15 **BREAK (Sponsored by the Great Plains Natural Science Society)**

3:15 4:00 **A First Look at the Distribution, Status, and Future Role of South Dakota's Native Grasslands and Woodlands**
Pete Bauman, South Dakota State University Extension

- 4:00 5:00 **What Nature is Worth: An Anthropological Inquiry**
Fredrick Errington, Trinity College, and Deborah Gwertz, Amherst University
- 5:00 5:30 **Social**
- 5:30 **Supper**
- 6:30 **Fundraising Auction**
- 8:00 10:00 **Social**

TUESDAY, 28 FEBRUARY

- 8:00 8:30 **Committee Meetings** (this is scheduled time to allow for standing and special committees to meet, if desired)
- 8:30 10:00 **South Dakota TWS Annual Chapter Business Meeting**
- 10:00 10:15 **BREAK (Rolls and Coffee)**
- 10:15 12:00 **Central Mountains and Plains Section Annual Business Meeting**
- 12:00 1:00 **Luncheon**
- 1:00 1:20 **Highlights from the Second South Dakota Breeding Bird Atlas**
Eileen Dowd-Stukel, South Dakota Department of Game, Fish and Parks, and Nancy Drilling, Bird Conservancy of the Rockies
- 1:20 1:40 **Breeding Biology of Northern Saw-whet Owls (*Aegolius acadicus*) in Northwestern South Dakota**
Nancy Drilling and Charlie Miller, Bird Conservancy of the Rockies
- 1:40 2:00 **Working Lands Habitat on Saline Soils: New Programs and Partnerships on Marginal Acres**
Sam Fryman, Pheasants Forever, Inc.
- 2:00 2:20 **Using Technology to Guide Deer Management Decisions in South Dakota**
Andy Lindbloom and Kevin Robling, South Dakota Department of Game, Fish and Parks
- 2:20 2:50 **Ungulate Migrations in Wyoming: Incorporating New Science into Wildlife Policy and Management**
Bob Lanka, CMPS Representative to The Wildlife Society Council, and Wyoming Game and Fish Department
- 2:50 3:20 **BREAK (Sponsored by North Dakota Natural Science Society)**

Session One – Contributed Papers

- 3:20 3:40 **Prevalence of *Yersinia pestis* from Small Mammal Fleas in Lower Brule, SD: Comparisons to Host Blood using Lateral Flow Tests for the Presence of F1 Antibodies**
Lauren P. Maestas and Hugh B. Britten, University of South Dakota
- 3:40 4:00 **Decoding the Historical Echos and the Invisible Metrics of the Fall Flights of Wild Ducks**
Kenneth F. Higgins, Retired, U.S. Geological Survey, South Dakota Cooperative Fish and Wildlife Research Unit
- 5:00 6:00 **Social**
- 6:00 7:00 **Supper**
- 7:00 8:00 **Keynote Speaker – “Agriculture and its Externalities: Irony and Paradox”**
Dr. Barry Dunn, President of South Dakota State University



- 8:00 8:30 **Award Presentations**

WEDNESDAY, 1 MARCH

Session Two – Contributed Papers

- 8:00 8:20 **Distribution and Habitat Selection of Swift Fox (*Vulpes velox*) in the Northern Great Plains**
Emily L. Mitchell, Tammy L. Wilson, Donelle Schwalm, and Jonathan A. Jenks, South Dakota State University
- 8:20 8:40 **The Hazards of Disease: Strain-Specific Consequences of *Mycoplasma ovipneumoniae* Bighorn Sheep Epidemics**
Brandi L. Felts, Daniel P. Walsh, E. Frances Cassirer, Thomas E. Besser, and Jonathan A. Jenks, South Dakota State University

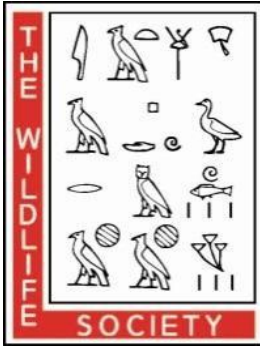
- 8:40 9:00 **Brood Rearing Resource Selection of Greater Sage-Grouse on the Eastern Fringe of Their Range**
Lindsey Bischoff and Jonathan Jenks, South Dakota State University, Andrew Gregory, Bowling Green, and Travis Runia, South Dakota Department of Game, Fish and Parks
- 9:00 9:30 **Evaluation of Gamebird Production in Roundup© Ready Alfalfa used for Seedbed Preparation during Perennial Grassland Conversion on State Game Production Areas in Eastern South Dakota**
Neal Martorelli, South Dakota State University, and Joshua Stafford, U.S. Geological Survey, South Dakota Cooperative Fish and Wildlife Research Unit
- 9:30 9:40 **BREAK**
- 9:40 10:00 **Abbey Grasslands: Rebuilding and Ark from the Ground Up**
 Tracy Rosenberg, Sisseton Wahpeton College
- 10:00 10:20 **Effects of Neonicotinoid Insecticides on Physiology and Reproductive Characteristics of Captive Adult Female and Fawn White-tailed Deer**
Elise Hughes Berheim, Jonathan A. Jenks, Jonathan G. Lundgren, and Eric S. Michel, South Dakota State University, and William F. Jensen, North Dakota Game and Fish
- 10:20 10:40 **Characteristics of Successful Puma Kill Sites of Elk in the Black Hills, South Dakota**
Chad P. Lehman and Christopher T. Rota, South Dakota Department of Game, Fish and Parks, Mark A. Rumble, U.S. Forest Service, and Joshua J. Millspough, University of Missouri
- 10:40 11:00 **Legislative Perspective on Conservation in South Dakota**
 Corissa Krueger, The Nature Conservancy
- 11:00 11:15 **BREAK**
- 11:15 12:00 **Present Student and Open Presentation Awards**
Gun Raffle Drawing
Closing Comments and Adjourn Meeting

Session Three – Contributed Posters

Bridging Wildlife Nutrition and Disease: Serochemical Evidence of Pneumonia Progression and Recovery in Bighorn Sheep

Spencer A. Carstens, Brandi L. Felts, David Knudsen, E. Frances Cassirer, Daniel P. Walsh, Thomas E. Besser, and Jonathan A. Jenks, South Dakota State University

THE WILDLIFE SOCIETY



Founded in 1937 as The Society of Wildlife Specialists, The Wildlife Society has evolved into an international nonprofit organization of professional wildlife ecologists and managers. Members number over 10,000 from 40 different countries, and include administrators, biologists, conservation officers, educators, managers and researchers.

The objectives of TWS are to:

1. Promote sound stewardship of wildlife resources and the environments upon which wildlife and humans depend;
2. Undertake an active role in preventing human-induced environmental degradation;
3. Increase awareness and appreciation of wildlife values; and
4. Seek the highest standards in all activities of the wildlife profession.

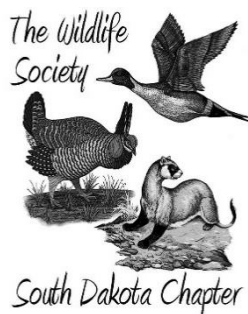
CENTRAL MOUNTAINS AND PLAINS SECTION OF THE WILDLIFE SOCIETY



The Central Mountains and Plains Section (CMPS) was initiated on February 2, 1954 to promote networking, cooperative efforts, and information exchange among wildlife professionals and TWS Chapters in our region. The CMPS region encompasses seven states—CO, KS, NE, ND, SD, UT, and WY. The Annual Section Meeting is hosted each year by one of the member states. A

CMPS newsletter is published three times per year (spring, summer, and fall/winter) and made available electronically to all Section members. A Student Travel Grant is available to assist students wishing to travel to TWS Annual Conferences. A Professional Achievement Award and a Citizen's Conservation Achievement Award are presented annually. The CMPS Mission Statement, Objectives, bylaws, Executive Board members, travel grant and awards information, past newsletters, Annual Board Meeting minutes, and more are available on the CMPS website.

SOUTH DAKOTA CHAPTER OF THE WILDLIFE SOCIETY



The South Dakota Chapter of TWS (SDTWS) was initiated on February 19, 1966 with 56 charter members. SDTWS is affiliated with the Central Mountains and Plains Section, one of eight subdivisions of TWS. The full membership of SDTWS meets annually in the spring to exchange scientific information through presented papers, debate current issues in wildlife management and land use, and conduct Chapter business. The Chapter's Executive Board of Directors, consisting of President, Past-President, President-Elect, Secretary-Treasurer, and two standing Board Members, meets at least four times each year to discuss issues that do not require full Chapter approval. The Chapter also communicates with its members through a newsletter, *The Prairie Voice*, published within 30 days of Executive Board meetings. SDTWS has a current membership of 171 people interested in the welfare of South Dakota wildlife.

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