



**South Dakota Chapter of The Wildlife Society
2010 Annual Meeting Program
Cedar Shore Resort & Convention Center
Oacoma, South Dakota
March 1-3, 2010**



Monday, March 1st

- 11:00 am -1:00 pm - Registration and Free Lunch (lunch sponsored by the Truax Company)
- 1:00 pm -1:05 pm - Welcome and Introductions
- 1:05 pm – 4:25 pm - Special Session: “*Technological advances and its role in wildlife management.*”
- 1:00 pm – 5:00 pm - Poster Presentation – **Lily Sweikert (Turner Endangered Species Fund)**—A temporary experimental release of black-footed ferrets (*Mustela nigripes*) on Bad River Ranches, South Dakota.

Session 1 – Technological Advances and Its Role in Wildlife Management (Chad Switzer, Moderator)

- 1:00 – 1:05 Opening Remarks
- 1:05 – 1:35 **Chris Marsh (SD Game, Fish & Parks)** – Integrating technology into a pen and paper world.
- 1:35 – 2:05 **Scott Mikkelson & Bruce Nachtigall (SD Game, Fish & Parks)** – Wildlife DNA forensics.
- 2:05 – 2:35 **Chris Kochanny (Sirtrack Tracking Solutions)** –A historical perspective and the future of radio telemetry technology in wildlife stewardship.
- 2:35 – 2:55 **Jim Strain & Jay Wickham (SD Wildland Fire)** – Crossover applications from wildfire to wildlife.
- 2:55 – 3:15 Break
- 3:15 – 3:45 **Mike Wimberly (South Dakota State University)** – Applying geospatial technologies to study connections between wildlife and human health.
- 3:45 – 4:05 **Bob Klaver (USGS-EROS)** – EROS: A source of data and collaboration for wildlife biologists.
- 4:05 – 4:25 **Carter Johnson (South Dakota State University)** – Climate change, prairie wetlands, and ducks: where west meets east.
- 4:30 – 6:00 Student Mixer
- 6:00 pm Social and Fund Raiser Auction

Tuesday, March 2nd

- 8:30 am-12:00 pm - SDTWS Business Meeting
12:00 pm-1:00 pm - Lunch

Session 2 – Contributed papers (John Kanta, Moderator)

- 1:00 – 1:20 **Chad Switzer (SD Game, Fish & Parks)** –Survival, reproduction, home range, and habitat use of translocated Eastern wild turkeys in the Wessington Hills, South Dakota.
- 1:20 – 1:40 **Nancy Drilling (Rocky Mountain Bird Observatory)** –2009 Black Hills owl surveys.
- 1:40 – 2:00 **Larry Gigliotti (SD Game, Fish & Parks)** –The future of waterfowl hunting in South Dakota.
- 2:00 – 2:20 **Gary Brundige (SD Game, Fish & Parks)** –Managing resources in Mountain Pine Beetle disturbed habitats.

- 2:20 – 2:40 **Dave Ode & Chris Marsh (SD Game, Fish & Parks)** –Mapping sagebrush steppe in northwestern South Dakota from digital infrared imagery.
- 2:40 – 3:00 **Break**
- 3:00 – 3:20 **Silka Kempema (SD Game, Fish & Parks)** –Monitoring black-tailed prairie dog acreage and distribution in South Dakota using GIS.
- 3:20 – 3:40 **Mark Rumble (US Forest Service)** –Spatial resource use of black-backed woodpeckers in recently burned forest and mountain pine beetle infestations in the Black Hills, SD.
- 3:40 – 4:00 **Lowell Schmitz (SD Game, Fish & Parks)** –Movements of elk relative to management unit boundaries in the Black Hills, South Dakota.
- 4:00 – 4:20 **Scott Guffey (SD Invasive Species Management Association)** –A coordinated approach to the management of invasive species in South Dakota.
- 4:20 – 4:40 **Kyle B. Monteith (Presenter), K.L. Monteith, J. A. Jenks, R.T. Bowyer, and D.M. Leslie, Jr.** Fecal nitrogen as an index to diet quality: sex-specific effects.

6:00 pm - Social

7:00 pm - Awards Banquet

Guest Speaker: Chris Kochanny –“Under adverse field conditions...tales and stories of 20 years of radio-tracking.”

Wednesday, March 3rd

Session 3 - Contributed papers (Travis Runia – Moderator)

- 8:00 – 8:20 **Nathan Baker (Presenter), C. Dieter, K. Bakker**—An evaluation of nesting and fledging success for six species of colonial tree-nesting waterbirds in northeast South Dakota.
- 8:20 – 8:40 **Keith Fisk (Presenter), K.C. Jensen, K. Bakker and R. Klaver** –An evaluation of duck and ring-necked pheasant nest survival and nest density in relation to patch size and landscape level variables in eastern South Dakota.
- 8:40 – 9:00 **Tom Berdan (Presenter), K.C. Jensen, B. Klaver** –Survival of male Merriam’s wild turkeys in the Northern Black Hills, SD.
- 9:20 – 9:40 **Troy Grovenburg (Presenter), C. Jacques, R. Klaver, C. DePerno, T. Brinkman, C. Swanson and J. Jenks** –Influence of landscape characteristics on migration strategies of white-tailed deer.
- 9:40 – 10:00 **Heather McWilliams (Presenter), K.C. Jensen, B. Klaver** –Estimating forage production for waterbirds and waterbird responses to habitat management at LaCreek National Wildlife Refuge.
- 10:00 – 10:20 **Break**
- 10:20 – 10:40 **Evan C. Phillips (Presenter), Angela R. Jarding, Susan P. Rupp, and Lowell E. Schmitz** Development of an Elk Sightability Model for the Black Hills, South Dakota
- 10:40 – 11:00 **Cory Mosby (Presenter), J. Jenks, R. Klaver, T. Grovenburg** –Microhabitat selection and home range size of bobcats in the southern Black Hills of South Dakota.
- 11:00 – 11:20 **Erica Mize (Presenter) and H. Britten** –Preliminary plague assay results of fleas collected from Badlands and Wind Cave National Parks and on Buffalo Gap National Grassland in South Dakota.
- 11:20 – 11:50 **Nick Docken (Presenter) and C. Dieter** –Nest success of upland nesting ducks and ring-necked pheasants in a predator reduced environment in northeastern South Dakota.
- 11:50 – Noon Announcements and meeting adjournment

MEETING SPONSORS:

The Truax Company (Minneapolis, MN), CPS Timberland (Spearfish, SD), Millborn Seeds Inc. (Brookings, SD), and The Greater Dacotah Chapter of SCI (Rapid City, SD).



Founded in 1936 as The Society of Wildlife Specialists, The Wildlife Society (TWS) has evolved into an international nonprofit organization of professional wildlife ecologists and managers. Members number over 9,000 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. To seek the highest standards in all activities of the wildlife profession.

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 7 subdivisions of TWS.

Chapter Meetings and Activities

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 meet at least 4 times each year to discuss issues that do not require full chapter approval. The chapter also communicates with its membership through a newsletter, *The Prairie Voice*, published within 30 days of Executive Board meetings. The newsletter includes board meeting minutes, committee activity reports, a summary of chapter correspondence, updates on professional conferences, and profiles of chapter members.

