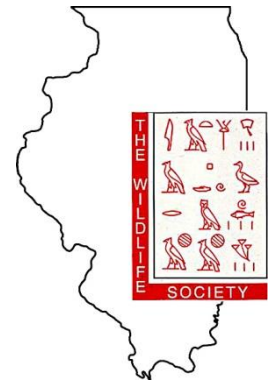


58TH ANNUAL MEETING Illinois Chapter of The Wildlife Society

Lewis and Clark Community College
Godfrey, IL
April 10–12, 2022



MEETING PROGRAM

SUNDAY, APRIL 10

Lewis and Clark Community College, The Commons

3:00 – 5:00 ICTWS Executive Board Meeting

5:00 – 9:00 Registration and Social/Networking (*light refreshments provided*)

MONDAY, APRIL 11

Lewis and Clark Community College, The Commons

7:30 Registration

7:50 – 8:50 Breakfast

8:50 – 8:55 Introduction, Tih-Fen Ting

SESSION 1: WATERFOWL & OSPREY (*Moderator Andy Gilbert*)

8:55 – 9:15 **True Metabolizable Energy of Targeted and Unfavorable Seed Species in Waterfowl Management within the Midwest**
Therin M. Bradshaw, Matthew R. Williams, Heath M. Hagy, Joseph D. Lancaster, Andrew D. Gilbert, Chelsea S. Kross, Joshua M. Osborn, Aaron P. Yetter, and Auriel M. V. Fournier, Illinois Natural History Survey

9:15 – 9:35 **Evaluation of Selected Physiological Responses to Sub-lethal *Cyathocotyle bushiensis* and *Sphaeridiotrema* spp. Experimental Infections in Captive Lesser Scaup (*Aythya affinis*)**
Cheyenne R. Beach*, Rebecca A. Cole, Joseph D. Lancaster, Aaron P. Yetter, Christopher N. Jacques, Heath M. Hagy, and Auriel M.V. Fournier, Western Illinois University and Illinois Natural History Survey

9:35 – 9:55 **Trends in Youth Hunting Participation during the Illinois Youth Waterfowl Season: 1996-2020**
Eric M. Walberg, Craig A. Miller, Daniel J. Stephens, and Brent D. Williams, Illinois Natural History Survey

* *Student Presentation*

9:55 – 10:15 **Population Viability Analysis of Two Hacked Osprey (*Pandion haliaetus*) Populations in Central Illinois**
Andrew J. Stokes* and Tih-Fen Ting, University of Illinois Springfield

10:15 – 10:35 **Break**

SESSION 2: WILDLIFE DISEASE & MANAGEMENT (*Moderator T.J. Benson*)

10:35 – 10:55 **Managing a One Health Approach to Tickborne Diseases in Illinois**
Heather L. Kopsco, Samantha Crist, Craig Miller, Jerry Vaske, Dawn Carson, Alexandria Miller, Margaret Gronemeyer, Nohra Mateus-Pinilla, and Rebecca L. Smith, University of Illinois College of Veterinary Medicine

10:55 – 11:15 **Effectiveness of Disease Management in Reducing the Burden of Chronic Wasting Disease on Local Illinois Deer Populations**
Csaba Varga, Patrick McDonald, William M. Brown, Paul Shelton, Alfred L. Roca, Jan E. Novakofski, and Nohra E. Mateus-Pinilla, University of Illinois Urbana-Champaign

11:15 – 11:35 **Impact of Maternal Infection with Chronic Wasting Disease (CWD) on Fetal Characteristics in White Tailed Deer**
Jameson Mori, Jan Novakofski, and Nohra Mateus-Pinilla, Illinois Natural History Survey

11:35 – 11:55 **Chronic Wasting Disease Management in Perspective: The Evolving Challenge**
Nohra Mateus-Pinilla, Illinois Natural History Survey

11:55 – 1:00 **Lunch** (*Provided with Registration*)

SESSION 3: MAMMALS (*Moderator Bob Bluett*)

1:00 – 1:20 **Quandaries in Our Understanding of Franklin's Ground Squirrels in Illinois**
Tih-Fen Ting, University of Illinois Springfield

1:20 – 1:40 **Detecting Effects of Anthropogenic Landscape Change on Mesopredator Distributions in Illinois at Multiple Spatial Scales**
Robert L. Emmet, Maximilian L. Allen, Thomas J. Benson, and Kirk W. Stodola, Illinois Natural History Survey

SESSION 4: NIGHTJAR & GRASSLAND BIRDS (*Moderator Bob Bluett*)

1:40 – 2:00 **Metabarcoding of Eastern Whip-poor-will Fecal Samples Suggests Strong Reliance on Moths: Implications for Conservation**
Thomas J. Benson, I. F. Souza-Cole, A. A. Skinner, J. R. Wright, C. M. Tonra, F. R. Thompson, III, S. N. Matthews, J. T. Foster, R. L. Mau, and M. P. Ward, Illinois Natural History Survey

* *Student Presentation*

2:00 – 2:20 **Employing Automated Radio-Telemetry to Estimate Space Use of Breeding Eastern Whip-poor-wills**
Sarah H. Stewart*, Ian F. Souza-Cole, Thomas J. Benson, and Michael P. Ward, Illinois Natural History Survey

2:20 – 2:40 **Grassland Bird Responses to Bison and Prescribed Fire Disturbances in Illinois and Indiana Tallgrass Prairies**
Antonio Del Valle* and Holly P. Jones, Northern Illinois University

2:40 – 3:00 **Break**

SESSION 5: INDIVIDUAL TOPICS (*Moderator Ben Williams*)

3:00 – 3:20 **Arthropod Evaluation of Horizontal and Vertical Garden Systems Planted with *Ocimum basilicum* (Basil) and the Integration of the Pollinator Attractor *Aster novae-angliae* (Pink Chiffon Aster)**
Brooke Prater*, Mark Woolbright, and Bill Retzlaff, Southern Illinois University Edwardsville

3:20 – 3:40 **Snakes on the Plains: The Impacts of Habitat Structure on Snake Communities in Illinois Grasslands**
Alex Glass* and Michael W. Eichholz, Southern Illinois University Carbondale

3:40 – 4:00 **A Comparison of Illinois Hunters**
J.T. Buckley, D.J. Stephens, C.L. Twellmann, and C.A. Miller, Illinois Natural History Survey

4:00 – 4:20 **Engagement Opportunities with The Wildlife Society**
Gary E. Potts, Past President and Fellow, The Wildlife Society

4:20 – 4:50 **What's in It: A Detailed Look at the ICTWS Membership Survey Results**
Tih-Fen Ting and Justin Shew, ICTWS Executive Board

POSTER SESSION

Lewis and Clark Community College, The Commons

5:00 – 6:00 **Comparisons Between Litter Size and Fetal Development for Chronic Wasting Disease in White-Tailed Deer**
Melanie Bergman*, Evan London, Jameson Mori, Jan E Novakofski, Nohra Mateus-Pinilla, Nelda A. Rivera, and Yi-Ying Tung, University of Illinois Urbana-Champaign

Tracking Variation in Mammal Abundance and Species Richness Along Riparian Corridors in Virginia
Lauren Brunk*, Gabriella Jukkala, Sasha Tetzloff, and Jinelle Sperry, University of Illinois Urbana-Champaign and U.S. Army Corps of Engineers

* *Student Presentation*

**Reducing Mammal Mortality in Treefrog Polyvinyl Chloride (PVC) Pipe Studies:
Reinforcing Borg et al. 2004**

Sage Chiles*, Justin J Shew, Simon Harper, Nicole Morris, Emma DeVeydt, and Jacob Decker, NGRREC

**The Use of Motus Tracking System to Investigate the Migratory Behavior of Rails at a
Local and Regional Scales**

Chad A. Cremer*, Mike Avara, Auriel M.V. Fournier, and Mike Ward, University of Illinois Urbana-Champaign

**Mammal and Game Species Response to Aerial Herbicide Applications as a Method of
Control for Invasive Bush Honeysuckle (*Lonicera maackii*)**

Jacob Decker*, Justin Shew, Sage Chiles, Emma DeVeydt, and McKenzie Williams, NGRREC and Southern Illinois University Edwardsville

**Assessing I3S to Collect Individual Photo ID Recapture Information of Gray Treefrogs
(*Hyla versicolor*)**

Emma DeVeydt*, Justin Shew, McKenzie Williams, and Jacob Decker, NGRREC and Webster University

**Behavior and Activity Patterns of the Illinois Chorus Frog (*Pseudacris streckeri
illinoensis*)**

Amy Docter*, Spencer Orvis, and Richard Essner, Southern Illinois University Edwardsville

**Modeling Osprey (*Pandion haliaetus*) Habitat Suitability in Illinois to Enhance Nest
Platform Placement**

Adam Eckert* and Tih-Fen Ting, University of Illinois Springfield

**Redesigning Primers and Optimizing PCR Conditions for Amplifying and Sequencing of
the Prion Protein Gene PRNP Using DNA from Illinois White-tailed Deer**

Yasuko Ishida, Daniel B. Raudabaugh, Nicholas Haley, Jan Novakofski, Alfred L. Roca and Nohra E. Mateus-Pinilla, University of Illinois Urbana-Champaign

**Chromatin Conformation Capture Sequencing Empowers Chromosome Assembly of
the White-tailed Deer (*Odocoileus virginianus*) Genome**

Evan W. London, Alfred L. Roca, Jan E. Novakofski, and Nohra E. Mateus-Pinilla, University of Illinois Urbana-Champaign

**A DNA Sequencing Strategy for Studying Novelty-seeking Behavior in White-tailed
Deer (*Odocoileus virginianus*)**

Rachel E. Lupas*, Nohra E. Mateus-Pinilla, Jan E. Novakofski, Nelda A. Rivera, Evan London, Daniel Raudabaugh, YiYing Tung, Myra Esmail, Melanie Bergman, and Lauren Brunk, University of Illinois Urbana-Champaign

* Student Presentation

Using Genotypic Methods to Assess Antimicrobial Resistance in the Fecal Microbiome of Resident Canada Geese (*Branta canadensis*)

Nicole F. Pietrunti*, Auriel M.V. Fournier, Nohra Mateus-Pinilla, and Thanh H. Nguyen, Illinois Natural History Survey

Effects of Bush Honeysuckle on Illinois Avian Species of Greatest Conservation Need

Philip Rathz* and Justin Shew, NGRREC and Lewis & Clark Community College

Survey of Prion Protein Variation in Illinois White-tailed Deer from Jo Daviess, LaSalle, and Winnebago Counties

Daniel B. Raudabaugh, Yasuko Ishida, Nicholas J. Haley, William M. Brown, Jan Novakofski, Alfred L. Roca, and Nohra E. Mateus-Pinilla, Illinois Natural History Survey

Historical Changes in Bluetongue and Epizootic Hemorrhagic Disease in Illinois Wild White-Tailed Deer

Nelda A. Rivera, Sheena J. Dorak, Csaba Varga, Mark G. Ruder, Peg Gronemeyer, Douglas R. Dufford, Daniel J. Skinner, Alfred L. Roca, Jan Novakofski, and Nohra E. Mateus-Pinilla, Illinois Natural History Survey

Shadow of the Prion Protein in Chronic Wasting Disease Wild White-tailed Deer (*Odocoileus virginianus*)

Nora Ryan*, Daniel Raudabaugh, Evan London, Nohra Mateus-Pinilla and Jan Novakofski, University of Illinois Urbana-Champaign

Comparison of Artificial Cover Materials Used for Herpetofaunal Surveys in West-Central Missouri

Melissa Schindler and Leslie K. Vincent, NGRREC and Lewis & Clark Community College

Prion Protein (PRNP) Gene's Relation between Maternal and Fetal White-tailed Deer (WTD)

YiYing Tung*, Nelda A. Rivera, Daniel Raudabaugh, Rachel Lupas, Myra Esmail, Melanie Bergman, Evan London, Jan Novakofski, and Nohra E. Mateus-Pinilla, University of Illinois Urbana-Champaign

Habitat Use, Competition, Distribution, and Their Management Implications for the Three Species of Geese Found in Illinois

Jasmine Weber-Pierson* and Michael Eichholz, Southern Illinois University Carbondale

Survival of Wintering American Kestrels (*Falco sparverius*) in Central Illinois

Frances Whalen* and Tih-Fen Ting, University of Illinois Springfield

BANQUET

Lewis and Clark Community College, The Commons

6:00 – 8:00 Dinner, Silent Auction for ICTWS Student Travel Grant Program, Student Awards

* *Student Presentation*

TUESDAY, APRIL 12

Lewis and Clark Community College, The Commons

7:30 – 8:00 Breakfast

8:00 – 8:05 Introduction, Justin Shew

WORKSHOP

8:05 – 10:45 **Google Earth Engine for Ecologists**
Presenter Dr. Ramiro Daniel Crego, Post-doctoral Research Fellow at Smithsonian Conservation Biology Institute, Conservation Ecology Center, and National Zoological Park

10:45 – 11:00 **Break**

11:00 – 12:15 **Business Meeting**