The NWRA Symposium is an ideal way to expand your knowledge for the direct benefit of wildlife. The Symposium program is designed to offer selections for all—from those new to the field to those who have been involved for many years. Wildlife care, disease, and research continue to expand and build on the foundation of knowledge for wildlife and the environment. Be sure you are among those on the leading edge of these new discoveries so you are in a position to offer the very best to animals in your care and keep the public informed through your educational programs.

The holidays can be a busy time of year for all of us as we juggle the animals and family, friends, gift buying, and get-togethers. Be sure to meet the January 12, 2016 early registration deadline if you wish to participate in workshop signup pre-registration. Your Symposium registration must be dated on or before January 12 to qualify for workshop pre-registration. **NOTE THAT THE WORKSHOP LECTURES MAY OCCUR THE DAY BEFORE THE WORKSHOP ITSELF AND ARE PREREQUISITES FOR PARTICIPATION IN WORKSHOPS.**

Workshop lectures are open to all attendees; only the actual workshops have limited enrollment.

Below is a daily schedule of session, topics, and speakers confirmed as of December 15, 2015.

Keep checking back regularly for updates.

**Tuesday**

**Wildlife Education and Training**, Melissa Moore, WA; Gail Buhl, MN; Jackie Kozlowski, DE
**Basic Wildlife Rehabilitation**, Maureen Lilly, WA; Emily Meredith, WA; Diane Nickerson, NJ; Sherri Cox, DVM, ON
**Patient Diagnostics**, Erica Miller, DVM, DE; Michele Goodman, VMD, PA; Cheryl Hoggard, DVM, TX; Judi Ellal, HI

**Tuesday Evening Poster Session**

**During the Icebreaker**

- Effects of Manual Restraint and Anesthetic Administration on Owl Hematology, Julia Whittington, DVM, IL
- Whole Blood Transfusion in a Duck to Correct Anemia Due to Tannin Toxicosis, Jill Murray, OK
- The Use of Cefovecin in the Red-eared Slider Turtle *Trachemys scripta elegans*, Lara Sypniewski, OK
- Enrichment for the Creatively Challenged, Debbie Sykes, TN
- You Know You’re a Wildlife Rehabber When ..., Debbie Sykes, TN
- Knemidocoptes-like Mange in Wild Red-tailed Hawk: A Case Report, Trish Jackman, CA
- Modular Caging for Avian Rehabilitation, Samantha Christie, DE
- Oiled Loon Post-wash Survival Study, Jo Joseph, CA
- Cormorant Survivability in Rehabilitation, Jo Joseph, CA
- Broken Feather Patches in Murres and Loons, Jo Joseph, CA

**Wednesday Morning**

**Opening Session**

**Keynote**: Joel Sartore, National Geographic Photographer, NE
**Adult Avian Critical Care Workshop Lecture**, Renee Schott, DVM, MN
**Fluid Therapy Workshop Lecture**, Julia Whittington, DVM, IL

**Wednesday Afternoon**

**Mammals Session**
- Squirrel Problem Solving, Kelli Knight, DVM, VA
- Diarrhea in Young Eastern Cottontail Rabbits, Renee Schott, DVM, MN
- Opossum Care: Neonates and Juveniles, Louise Tinz, AR
- Antibiotic Administration in Neonatal Opossums: Results from a Clinical Trial and Community Survey, Dave McRuer, DVM, VA
- Rear End Paralysis in Striped Skunks, Kim Bensdorp, NL; Bonnie Gulas-Wroblewski, TX
Research and Policy Session
Considerations for Planning a Wildlife Rehabilitation Research Project, Rebecca Duerr, DVM, CA
Use of Polypropylene Mesh Implantation for the Prevention or Resolution of Radioulnar Synostosis in Wild Raptors, Jessica Robertson, DVM, OK
Novel Shell Wound Care in the Aquatic Turtle, Lara Sypniewski, OK
Band Returns of Laysan Albatross Rehabilitated at International Bird Rescue 2002 – 2013, Katie Saunders, CA
Research Wildlife Rehabilitation and Release in Queensland, Andrew Tribe, Queensland
Post-release Monitoring of Hand-reared Wildlife, Halley Buckanoff, NC
The Dangers of Lead Poisoning from Spent Lead Ammunition: Policy Implications and the Important Role of Local Rehabilitators, Lena Spadacene, Washington, DC

Adult Avian Critical Care Workshop, Renee Schott, DVM, MN
Fluid Therapy Workshop, Julia Whittington, DVM, IL

Wednesday Evening
Building Aquatic Systems into Your Wildlife Hospital, Jennifer Convy, WA
CWR Study Session, Kai Williams, OR
Compassion Fatigue/Euthanasia Roundtable, Renee Schott, DVM, MN
Critical Care Techniques in Chelonian Patients Workshop Lecture, Cheryl Hoggard, DVM, TX
Pediatric Avian Critical Care Workshop Lecture, Michele Goodman, VMD, PA; Erica Miller, DVM, DE

Nutrition Session
Nutritional Imbalances in Wildlife Patients, Nicki Rosenhagen, IL
The Bag Says "Chicken Flavored," Is that a Question?, Brandy Stier, WA
Please, Just Take Two More Bites! How to Monitor Nutrition and Encourage Self-feeding in Rehabilitation Animals, Raina Domek, WA
Supplemental Nutrition – Providing for the Nutritional Needs of Wildlife Patients that Aren’t Self-feeding, Julia Whittington, DVM, IL
Tiny Birds: Feeding a Speedy Metabolism, Stephanie Herman, CA

Thursday Morning
Education Session
Techniques for Effective and Engaging Education, Melissa Moore, WA
Find Your Educational Superpower, Amanda Wrigley, IN
TBD, Gail Buhl, MN
Keeping It Positive: Training Voluntary Medical Procedures for Educational Birds, Jackie Kozlowski, DE

Mammal Zoonosis Workshop Lecture, Bonnie Gulas-Wroblewski, TX
Mammal Necropsy Workshop Lecture, Sherri Cox, DVM, ON
Avian Necropsy Workshop Lecture, Rebecca Duerr, DVM, CA
Pediatric Mammal Critical Care Workshop Lecture, Dave McRuer, DVM, VA; John Huckabee, DVM, WA
Critical Care Techniques in Chelonian Patients Workshop, Cheryl Hoggard, DVM, TX

Thursday Afternoon
Administration & Volunteers Session
Implementing Change, Stephanie Herman, CA
Diving into Fundraising, Public Relations, and Social Media!, Holly Duvall, AB
Professional Volunteers, Sabrina Saylor, IN
Building a Capture Volunteer Program, Karen Becker, BC
Integrating Online Volunteer Databases into a Wildlife Rehabilitation Organization, Michelle Neef, DE

Disease Session
Understanding Viruses: Using Canine Distemper Virus as a Model, Amy Tyler, DVM, OK
Chagas Disease in North America: Implications for Animal Rehabilitators, Sarah Gunter, TX
Public Health Concerns Associated with the Care of Free-living Birds, Julia Whittington, DVM, IL
West Nile Virus - Diagnosis and Differentiation from Other Neurologic Diseases in Raptors, David Scott, DVM, NC
Highly Pathogenic Avian Influenza (HPAI) - Understanding this Virus and its Impact for Wildlife Rehabilitators, Sherri Cox, DVM, ON
Herp Session
The Use of Alfaxalone in Reptile Species, Rebecca S. Sayre, DVM, OK
The Effects of Low Level Laser Therapy on Reptilian Wound Healing, Lara Sypniewski, OK
Effects of Traumatic Shell Fracture on Hematology Values in Chelonians, Sonja Ahlberg, ME
Review of Turtle Shell Repair Methods: New to Old, Thomas N. Tully, Jr., DVM, LA
Starting and Building a Turtle Hatching Program, Ashley Knobel, Lisa Fosco, ON
What to Do with 500 Snakes, Linda Bakker, BC

Pediatric Mammal Critical Care Workshop, Dave McRuer, DVM, VA; John Huckabee, DVM, WA

Thursday Evening
Get a Real Job!, Emily Meredith, WA; Jennifer Convy, WA

Hematology Session
Blood Smear Basics: What Can You Do with One Drop?, Julia Jones, OK
Avian Blood Transfusions: Theory and Applications, Jessica Robertson, OK
Select Analytes for Evaluation of Juvenile Grey Squirrel Health, Cheryl Hoggard, DVM, TX
US Fish and Wildlife Service Roundtable, Resee Collins, Carmen Simonton, GA

Friday Morning

Oiled Wildlife Care Session
Building Capacity for Oiled Wildlife, Jenny Schlieps, WA
Wildlife Encounters during Oil Spill Response: Keeping Personnel Safe, Rhonda Murgatroyd, TX
Rehabilitation of Oil Contaminated Mammals, Cristin Kelley, DVM, DE; Michelle Neef, DE
Rehabilitation of Individual Oiled Birds Affected by Natural Oil Seep at International Bird Rescue in Los Angeles, 2001 to 2014, Katie Saunders, CA
The Mystery Goo Spill of 2015: Medical Management during a Crisis, Rebecca Duerr, DVM, CA

PR/Social Media Session
Perceptions of Wildlife Rehabilitation: A Survey of Responses to Pictures and Terms, Halley Buckanoff, NC; Kai Williams, OR
The Best Ways to Make Facebook Work for You, Amanda Nicholson, VA
Social Media as an Essential Tool in Rehabilitation, Megan E. Judkins, OK
Social Media and Regulatory Officials - Rallying Your Team, Shad Wilkerson, OK
Manage a Potential PR Nightmare and Live to Tell about It, Kim Rutledge, MO

Raptor Session
Interesting Raptor Cases, David Scott, DVM, NC
Tool Time! Easy-to-build Raptor Housing, Curt LeVan, VA
Remote Video Surveillance, Gary Siftar, OK
Avian Analgesia with Emphasis on Raptors, Joao Brandao, OK
To Place or Not to Place ..., Kathryn White, MN

Pediatric Avian Critical Care Workshop, Michele Goodman, VMD, PA; Erica Miller, DVM, DE

Friday Afternoon

Avian Session
Eastern United States Songbird Identification and Rehabilitation Requirements, Sabrina Garvin, VA; Lydia Hoeppner, VA
Baby Bird Basics, Veronica Bowers, CA
Raising Orphaned Killdeer, Aaron Archer, ON
The Almighty Feather, Samantha Christie, DE; Meagan Demeter, DE
It's the Little Things, Audrey Gossett, WI
Pharmacology Session
Dealing with Drugs: Things We Should Be Thinking About, Erica Miller, DVM
Controlling Pain In Wildlife Patients – Taking the ‘Ouch’ out of Touch, Julia Whittington, DVM, IL
Drugs for Bugs: It’s a Fungal Jungle Out There, Dave McRuer, DVM, VA
Treatment for Parasites in Wildlife Patients, Cheryl Hoggard, DVM, TX
Judicious use of Antibiotics in Wildlife using Evidence Based Practice Guidelines, Julia Whittington, DVM, IL

General Session
Launching a Wildlife Eviction and Exclusion Service, Bonnie Bradshaw, TX
The Purr-fect Storm, Linda Cherkassky, NJ
Physiology of Stress, Nicki Rosenhagen, IL
Defining Wildlife Health and Record Keeping, Dave McRuer, DVM, VA; Mitch Willette, DVM, MN; Renee Schott, DVM, MN

Mammal Zoonosis Workshop, Bonnie Gulas-Wroblewski, TX

Saturday Morning

Reuniting Session
Behavioral Aspects of Reuniting and Wild-fostering Birds, Anne Miller, AL
Avian Interactive Roundtable, Laura Simon, CT; Anne Miller, AL
Two Parents or One? Biological Factors in Reuniting and Fostering Strategies for Mammals, Carol Kelly, AB; Judy Boyd, AB
Reuniting Mammals: The Importance of the Maternal Bond, John Griffin, Washington, DC
Mammal Interactive Roundtable, Laura Simon, CT; Carol Kelly, Judy Boyd, AB; John Griffin, Washington, DC
Human Biology and the Challenge of Reuniting by Telephone, Laura Simon, CT

Veterinary Session
Chelation and Adjunct Treatment Options for Lead Toxicity, Renee Schott, DVM, MN
Picture This!, Kathryn White, MN
Multi-modal Anesthesia in Birds, Rebecca Sayre, DVM, OK
Using TCVM to Enhance Healing: Acupuncture Points for SQ and IM Injections, Bonnie E. Gulas-Wroblewski, Rachel Addleman Seder, DVM, TX

Mammal Necropsy Workshop, Sherri Cox, DVM, ON
Avian Necropsy Workshop, Rebecca Duerr, DVM, CA

Saturday Afternoon

Caging Session
Wildlife Caging Solutions for the Backyard and Beyond, Ben Montgomery, ON
Affordable Housing: Solutions for All Species, Denise Hays, IN

Surrogate Session
Are You My Mother? Employing Surrogate Parents in Wildlife Rehabilitation, Kelli Knight, DVM
Using Surrogate Waterfowl in Wildlife Rehabilitation – Considerations, Stories of Success (and Failure), Michele Goodman, VMD, PA

Waterbird Session
The Brooder Box – Past, Present, and Future (and How This Can Be Utilized to Increase Your Release Rate and Preserve Your Sanity), Michele Goodman, VMD, PA
In-depth Evaluation of Fishing Hook and Line Injuries at International Bird Rescue, Los Angeles from 2009-2014, Jeanette Bates, CA
Captive Rearing of Wood Ducks, Lisa Fosco, ON