FISH & WILDLIFE HEALTH FORUM

IDENTIFYING COMMON CHALLENGES, NEEDS, AND SOLUTIONS

NOVEMBER 14-16, 2018
USGS HEADQUARTERS IN RESTON, VA

Purpose: To improve the potential to respond to wildlife disease events in the U.S. through the evaluation of existing systems, policies, and procedures

Agenda

Tuesday, November 13

Afternoon: Optional field trip to Smithsonian Museum of Natural History exhibit "Outbreak: Epidemics in a Connected World"

Wednesday, November 14

8-8:30am	Gather, clear security, register, and enjoy coffee ☕
8:30-10:35am	Welcome and Opening Remarks *Keynote: Imagine a Perfect Response to Future Fish and Wildlife Diseases*
10:35-10:50am	Break ☕
10:50am-12pm	Group Discussion: *National Fish and Wildlife Health Initiative toolkit, 2008*
12-1pm	Lunch 🍽
1-2:45pm	Presentations: "State of the Science" (break included ☕)
3-5pm	Group Discussion: *Lessons learned – what is working?* *Case studies may be discussed including screwworm outbreak in Florida, sheep respiratory disease, false alarms of novel pathogens, Recovering America's Wildlife Act (RAWA), diagnostic laboratory methodology standardization*
5:30-7pm	Reception

PRESENTATIONS - Wednesday, November 14

Syntheses on the "State of the Science"
*Focus on ideal responses and early interventions following an outbreak
for select emerging or epidemic diseases and pathogens*

Contemporary Emerging Pathogens: *including projects funded by the Band Foundation*

- White-nose Syndrome (WNS) - *Craig Willis, PhD; University of Winnipeg*

- Snake fungal disease - *Matt Allender, DVM, PhD; University of Illinois*

- Amphibian chytrid pathogens (Bsal and Bd), susceptibility and mitigation - *Matt Gray, PhD; University of Tennessee-Knoxville and Molly Bletz, PhD; University of Massachusetts-Boston*

- Marine diseases with Seastar Wasting Syndrome case study - *Drew Harvell, PhD; Cornell University*

- Aquatic parasites of salmonids: A presentation on myxozoans - *Julie Alexander, PhD; Oregon State University*

Scientific Tools and Considerations:

- USGS Strategic Sciences Group case study on Bsal: Using preparatory exercises to help identify needs - *Camille Hopkins, DVM, PhD; U.S. Geological Survey*

- Considerations and challenges in aquatic vs. terrestrial ecosystems - *Sarah Gravem, PhD; Oregon State University*

- Trends across diseases - *Anna Savage, PhD; University of Central Florida*

Thursday, November 15

8-8:30am	Recap
8:30-9:40am	Presentations: *Fish & Wildlife Health Management Approaches*
9:40-10am	Break ☕
10am-12pm	Group Discussion: *Lessons learned – challenges and gaps*
12-1pm	Lunch 🍽
1-5pm	Group Discussion: *Lessons learned – challenges and gaps, cont'd; potential actions* (break included ☕)

PRESENTATIONS - Thursday, November 15

Fish & Wildlife Health Management Approaches

Focus on a selection of fish & wildlife health management approaches, and what we have learned

Ongoing Disease Management Challenges:

- Domestic animal and wildlife interface diseases - *Patrice Klein, MS, VMD, DACPV, DACVPM; U.S. Forest Service*

- Aquatic Animal Health Program: Overview, case study, and lessons learned - *Kathleen Hartman, DVM, PhD; USDA Animal and Plant Health Inspection Service*

- WNS: Lessons learned and current challenges - *Jeremy Coleman, PhD; U.S. Fish and Wildlife Service*

- Sylvatic Plague: Approaches attempted, what worked, lessons learned - *Mike Miller, DVM, PhD; Colorado Parks and Wildlife*

- Chronic Wasting Disease (CWD): Best management practices and current efforts - *Colin Gillin, DVM; Oregon Department of Fish and Wildlife*

Management tools and considerations:

- Decision support processes to guide preparation and response - *Riley Bernard PhD; U.S. Geological Survey*

- Adaptive Management Plan example for CWD

Friday, November 16

8:00-8:30am	Recap
8:30-9:00am	One Health Considerations *Casey Barton Behravesh, MS, DVM, DrPH, DACVPM; Centers for Disease Control and Prevention (invited)*
9:15-11:15am	Group Discussion: *Summary of needs identified and opportunities for better inter-agency management and coordination, resource and policy implications (*break included ☕*)*
11:15am-12pm	Report Out, Next Steps, and Closing Remarks

THANK YOU

Special thanks to all who contributed to the planning of the 2018 Fish & Wildlife Health Forum:

Jonathan Mawdsley, Association of Fish & Wildlife Agencies

Priya Nanjappa, Association of Fish & Wildlife Agencies *(now Conservation Science Partners)*

Elsa Haubold, U.S. Fish and Wildlife Service

Patrice Klein, U.S. Forest Service

Camille Hopkins, U.S. Geological Survey

Samantha Gibbs, U.S. Fish and Wildlife Service

Jeremy Coleman, U.S. Fish and Wildlife Service

Devin DeMario, Association of Fish & Wildlife Agencies

Jen Mock Schaeffer, Association of Fish & Wildlife Agencies

Sarah Gravem, Oregon State University

Colin Gillin, Oregon Department of Fish and Wildlife

Drew Harvell, Cornell University

Craig Willis, University of Winnipeg

Michael Adams, U.S. Geological Survey

Reid Harris, Amphibian Survival Alliance

Joseph Hoyt, University of California at Santa Cruz

Carrie Miner, University of California at Santa Cruz

Bruce Menge, Oregon State University

John Fischer, Southeastern Cooperative Wildlife Disease Study

Bob Duncan, Virginia Department of Game and Inland Fisheries