

2012 Adaptive Management Conference Series Schedule

Tuesday, June 12

8am – 8:55am Catered Breakfast

8:55 – 9:00am Daily welcome, introductions, logistics

9am – 12pm Topic: Applications and Computational Approaches

9:00 – 10am – Plenary: Fred Johnson¹, B. Ken Williams², and James Nichols³

¹USGS, Southeast Ecological Science Center, ²USGS, Cooperative Research Units Program,

³USGS, Patuxent

Implications of Resilience Thinking for a Decision-Analytic Approach to Biodiversity Conservation

10:00 – 10:30am – David Smith¹, Jonathan Daily¹, Conor McGowan², Jim Nichols³, John Sweka⁴, and Jim Lyons⁵

¹USGS, Leetown Science Center, ²USGS, Alabama Coop Unit, ³USGS, Patuxent, ⁴USFWS, Northeast Fishery Center, ⁵USFWS, Division of Migratory Birds

Evaluating some aspects of the framework for adaptive management of Delaware Bay horseshoe crab and red knots

10:30 – 10:45am – Break

10:45 – 11:30am – Clint Moore¹, Jill Gannon², and Terry Shaffer²

¹Georgia Cooperative Fish and Wildlife Research Unit, University of Georgia, ²USGS, Northern Prairie Wildlife Research Center

The native prairie adaptive management initiative: innovations, challenges, and process ownership

11:30 – 12:00pm – Katriona Shea¹, Michael Tildesley², Michael Runge³, Christopher Fonnesbeck⁴, and Matthew Ferrari⁵

¹Pennsylvania State University, Department of Biology, ²Centre for Immunity, Infection, and Evolution, University of Edinburgh, ³USGS, Patuxent, ⁴Vanderbilt University, Department of Biostatistics, ⁵Pennsylvania State University, Center for Infectious Disease Dynamics

An adaptive management framework for control of infectious disease: foot and mouth

12:00 – 1:15pm

Lunch

1:15 – 2:15pm

Topic: Applications and Computational Approaches

1:15 – 1:45pm – Jon Conrad

Cornell University, Dyson School of Applied Economics and Management

Differential games in a stochastic fishery

1:45 – 2:15pm – Jery Stedinger

Cornell University, School of Civil and Environmental Engineering

Dynamic Programming for Reservoir System Operation: Computational Improvements and Descriptions of Uncertainty

2:15 – 2:30pm

Break

2:30 – 4:15pm

Topic: Solution framework for MDP

2:30pm – 3:00pm – Krishna Pacifici, and Paul Fackler

North Carolina State University, Department of Agriculture and Resource Economics

Addressing structural and observational uncertainty in resource management: the Generalized POMDP model

3:00 – 3:45pm – Paul Fackler

North Carolina State University, Department of Agriculture and Resource Economics

A modeling and solution framework for MDPs

3:45 – 4:15pm – Paul Fackler¹, Krishna Pacifici¹, Julien Martin², James Nichols³, and Carol McIntyre⁴; Presenter: Julien Martin

¹North Carolina State University, Department of Agriculture and Resource Economics, ²Florida Fish and Wildlife Conservation Commission, ³USGS, Patuxent, ⁴National Park Service, Fairbanks, Alaska

Application of POMDP to the adaptive management of hiking activities near Golden Eagles in Denali

6:00 – 8:00pm

Appetizer reception at the Boatyard Grill

Wednesday, June 13

8am – 8:55am Catered Breakfast

8:55 – 9:00am Daily welcome, introductions, logistics

9am – 12pm Topic: Computational Methods

9:00 – 10:00am – Plenary Talk: Carla Gomes

Cornell University, Institute for Computational Sustainability, Department of Computer Science

Computational sustainability

10:00 – 10:30am – Bistra Dilkina

Cornell University, Department of Computer Science

Optimal cost-effective conservation planning for landscape connectivity

10:30 – 10:45am Break

10:45 – 12:00pm Discussion: Problem classification and standardization of model specification
(Moderator: Paul Fackler, NCSU)

12:00 – 1:15pm Lunch

1:15 – 2:45pm Topic: Topics in Optimization

1:15 – 1:45pm – Adrian Lopes and Jon Conrad

Cornell University, Dyson School of Applied Economics

Poaching and the dynamics of a protected species

1:45 – 2:15pm – Rich Woodward¹ and David Tomberlin²

Presenter: David Tomberlin

¹Texas A & M, ²NOAA Fisheries

Robust dynamic optimization and fisheries management

2:15 – 2:45pm – Michael Runge¹ and Eve McDonald-Madden²

¹USGS, Patuxent, ²The University of Queensland/CSIRO

Triggering double-loop learning: detecting the failure of a model set

2:45 – 3:00pm	Break
3:00 – 4:30pm	Discussion: Continued discussion on problem classification/model specification, and advances in the science of adaptive management
6:00 – 9:00pm	Dinner Cruise, Cayuga Lake Cruises

Thursday, June 14

8am – 8:55am Catered Breakfast

8:55 – 9:00am Daily welcome, introductions, logistics

9am – 12pm Topic: Challenges and Applications in SDM/AM

9:00 – 9:30am – Drew Tyre

University of Nebraska, School of Natural Resources

Beyond adaptive management: How uncertainty shapes ecologists' contribution to managing socio-ecological systems

9:30 – 10:00am – Kelly Robinson¹ and Cecil Jennings^{1,2}

¹University of Georgia, Cooperative Fish and Wildlife Research Unit, ²USGS

Maximizing YOY spot *Leiostomus xanthurus* export from a South Carolina estuary: an evaluation of coastal impoundment management alternatives via structured decision-making

10:00 – 10:30am – Michael Conroy¹, Andrea Goijman^{1,2}, Jeffrey Thompson², María Elena Zaccagnini², Jaime Bernardos², Verónica Rusch²

¹Warnell School of Forestry and Natural Resources, University of Georgia ²Instituto Nacional Tecnología Agropecuario, Argentina

Capacity building for structured decision making and adaptive resource management in Argentina

10:30 – 10:45 Break

10:45 – 11:15am – Andrea Goijman^{1,2}, Michael Conroy¹, Rebecca Moore¹, María Elena Zaccagnini²

¹Warnell School of Forestry and Natural Resources, University of Georgia ²Instituto Nacional Tecnología Agropecuario, Argentina

Application of SDM/ARM to balancing conservation of bird diversity with landowner values in Enre Rios, Argentina

11:15 – 11:45am - Angela Romito¹, Michael Conroy¹, and James Peterson²

¹Warnell School of Forestry and Natural Resources, University of Georgia, ²USGS, Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University

Structured decision making as an approach for addressing interagency and cross-jurisdictional management challenges: Two case studies involving the management of sea otters and brown bears in Alaska

11:45 – 12:30pm Roundtable discussion: SDM/AM Challenges