



SYMPOSIUM SUMMARY: COOPERATIVE FISHERIES RESEARCH IN MARINE AND FRESHWATER SYSTEMS: FROM POLICY TO PRACTICE

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Collaborative is the new cooperative: Chris McGuire from The Nature Conservancy (right) and Jeff Kneebone from the Massachusetts Division of Marine Fisheries (left) working in collaboration with commercial fishermen to acoustically tag winter-spawning cod in the Gulf of Maine.

Cooperative research between scientists and stakeholders is a time-tested model that has gained traction through emerging citizen science initiatives and formalized policy by fishery agencies. In addition to building overall trust in the management process, the inclusion of stakeholders in data collection and experimental design has the capacity to leverage limited funds and produce information that surpasses independent academic efforts. Stakeholders contribute an innate and historical knowledge of resource distribution and environmental patterns, and provide established infrastructure and a "boots on the ground" capacity to mobilize research programs. The scope of possibilities for cooperative research is huge and the processes are dynamic, but there are many commonalities across disciplines. This symposium invited speakers to review the successes (and challenges) of established case studies and discuss emerging

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cooperative research approaches from marine and freshwater fisheries. The call for papers grew into almost two days of talks and posters, spanning a wide spectrum of species (sea cucumbers to sharks), salinities (Great Lakes to the Gulf of Mexico), and success stories (cod in New England to trophy bass in Florida). A common thread throughout the symposium was that maximum impacts and successes were dependent upon stakeholders who could “champion” research efforts. Speakers took the theme seriously, by talking about the *process* of cooperative research as much (or more) than simply results. The lively discussion and scope of continuing cooperative research initiatives has generated momentum to continue the symposium at AFS 147 in Tampa next year. We hope to see you there! [Read the abstracts here.](#)

—Angela Collins, University of Florida IFAS Extension/Florida Sea Grant, and Nick Trippel, Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute



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SYMPOSIUM

Cooperative Fisheries Research in Marine and Freshwater Systems: From Policy to Practice Session I (Symposium)

Monday, August 22, 2016 09:40 AM - 05:00 PM

Sheraton at Crown Center - Chouteau B

Abstract

Cooperative research between scientists and stakeholders is a time-tested model that has gained additional traction through formalized policy by fishery agencies and the emerging trend of citizen science initiatives. The benefits are many. Stakeholder-scientist networks have the capacity to leverage limited funds and produce information that surpasses independent academic efforts. Stakeholders typically have innate and historical knowledge of resource availability and environmental patterns, as well as readily available infrastructure and a "boots on the ground" capacity to mobilize research or monitoring programs. Inclusion of stakeholders in the data collection process encourages trust in the regulatory and management process. Cooperative research encompasses a huge spectrum of possibilities across marine and freshwater fisheries. Although marine and freshwater systems are fundamentally different, there are also commonalities, and as initiatives shift from traditional "pay-for-hire" models to true transdisciplinary science, there is great potential for these groups to learn from each other. This symposium invites speakers to discuss these issues through reviews of established case studies or emerging cooperative fishery research approaches from either marine or freshwater ecosystems. The goals for this symposium include i.) to highlight cooperative fisheries research in marine and freshwater systems, ii.) to provide examples where administrative policies have promoted the scope of cooperative research, or where the research itself has influenced management policy, and iii.) to create a forum to discuss lessons learned – what works (and why)?

Chairs

[Angela Collins](#)

University of Florida IFAS Extension

[Richard S. McBride](#)

National Marine Fisheries Service

[Nick Trippel](#)

Florida Fish and Wildlife Conservation Commission

Moderators

[Richard S. McBride](#)

National Marine Fisheries Service

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[Angela Collins](#)

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Missouri Department of Conservation

Organizers

[Angela Collins](#)

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Florida Fish and Wildlife Conservation Commission

[Quinton Phelps](#)

Missouri Department of Conservation

[Dave Herzog](#)

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Papers

09:40 AM

[A Framework for Cooperative Research and Management](#)

[Richard S. McBride](#)¹, [Angela Collins](#)², [Dave Herzog](#)³, [Quinton Phelps](#)³ and [Nick Trippel](#)⁴,
(1)National Marine Fisheries Service, (2)University of Florida IFAS Extension, (3)Missouri
Department of Conservation, (4)Florida Fish and Wildlife Conservation Commission

10:00 AM

[Cooperative Research at the Northwest Fisheries Science Center: Improving Fisheries Management through Scientific Partnerships](#)

[Keith L. Bosley](#)¹, [Kelly S. Andrews](#)², [John Harms](#)¹ and [Peter Lawson](#)³, (1)NOAA Fisheries,
Northwest Fisheries Science Center, (2)NOAA Northwest Fisheries Science Center, (3)NMFS

10:20 AM

Cooperative Research in the Gulf of Mexico, Providing Data for Stock Assessments

Linda Lombardi, Gary R Fitzhugh, Beverly K. Barnett and Guy Davenport, NOAA Fisheries

10:40 AM

Cooperative Fisheries Research and Management in Missouri's Big Rivers

Dave Herzog, Sara Tripp, David Ostendorf, Molly Sobotka, John West, Quinton Phelps and Frank Nelson, Missouri Department of Conservation

11:00 AM

50 Years of Collaboration: The National Marine Fisheries Service Cooperative Shark Tagging Program

Brian Gervelis¹, Nancy Kohler², Camilla T. McCandless², Lisa Natanson² and John Hoey²,
(1)Integrated Statistics, NOAA/NMFS/NEFSC, (2)NOAA/NMFS/NEFSC

11:20 AM

The Importance of Stakeholder Collaboration to Marine Fisheries Research in Mississippi

Jeremy M. Higgs¹, Jill M. Hendon¹, James S. Franks¹, Eric R. Hoffmayer², J. Read Hendon¹ and Andrew N. Evans¹, (1)The University of Southern Mississippi, (2)National Oceanic and Atmospheric Administration

11:40 AM

Monday Lunch Break

01:00 PM

Collaborative Is the New Cooperative: An Example from Cod Spawning Research in the Gulf of Maine

Christopher McGuire¹, Douglas Zemeckis², Frank Mirarchi³, William Hoffman⁴, Steven X. Cadrin², Micah Dean⁴, Sofie van Parijs⁵ and Mark Baumgartner⁶, (1)The Nature Conservancy, (2)University of Massachusetts Dartmouth, (3)F/V Barbara L. Peters, (4)Massachusetts Division of Marine Fisheries, (5)NOAA Northeast Fisheries Science Center, (6)Woods Hole Oceanographic Institution

01:20 PM

Using Socio-Economic and Fisheries Involvement Indices to Understand Alaska Fishing Community Well-Being

Stephen Kasperski¹ and Amber Himes-Cornell^{1,2}, (1)National Marine Fisheries Service, (2)Université de Bretagne Occidentale

01:40 PM

The Great Lakes to Gulf Observatory Facilitating the Progression of Data to Knowledge to Policy

Edward Kratschmer¹, John Sloan¹, William Kruidenier², Richard Warner², Jong Lee², Johnathan Brock Angelo², Marcus Slavenas², Brian Miller³ and Isaac Chapman⁴, (1)Lewis and Clark Community College, (2)University of Illinois, (3)Illinois-Indiana Sea Grant, (4)The Horinko Group

02:00 PM

Collaboration to Address Community Change: The Bass-Walleye Project in Wisconsin

Daniel Isermann¹, Steve Carpenter², Jonathan Hansen³, Gretchen Hansen³, Tyler Tunney², Eric Pedersen², M. Jake Vander Zanden², Andrew Rypel³, Greg G. Sass³ and Joseph Hennessy³, (1)U.S. Geological Survey, Wisconsin Cooperative Fisheries Research Unit, (2)University of Wisconsin, (3)Wisconsin Department of Natural Resources

02:20 PM

Estimation of Survival and Run Timing of Adult Spring/Summer Chinook Salmon from the Columbia River Estuary to Bonneville Dam: A Cooperative Effort Between NOAA Fisheries and Columbia River Commercial Fishermen

Michelle Rub, Benjamin P. Sandford, Donald M. Van Doornik, Brian J. Burke, Kinsey Frick, Mark Sorel, Matthew Nesbit and Samuel Rambo, NOAA/NMFS/NWFSC

02:40 PM

Integrating Fishermen's Knowledge with Empirical Data: The Case of Cod (*Gadus morhua*) Spawning Groups and Alosines - CANCELED

Edward Ames, Penobscot East Resource Center and Sally Sherman, Maine Department of Marine Resources

03:00 PM

Monday Afternoon Break

03:20 PM

The Eel Passage Research Center: Bi-National Collaboration at the Interface of Research, Resource Management, and Regulatory Compliance

Paul T. Jacobson¹, Scott Ault², Jean Caumartin³, Jeff Gerlach⁴, Daniel Hatin⁵, Steve LaPan⁶, Benjamin Lenz⁴, Alastair Mathers⁷, Tracy Maynard⁸, Steve Patch⁹, Thomas Pratt¹⁰, John Sanna¹¹, Scott Schlueter¹², David Stanley¹¹ and Alan Stuart¹³, (1)Electric Power Research Institute, (2)Kleinschmidt Associates, Inc., (3)Hydro-Québec, (4)New York Power Authority, (5)Quebec Ministry of Forests, Wildlife and Parks, (6)New York State Department of Environmental Conservation, (7)Ontario Ministry of Natural Resources, (8)Kleinschmidt, (9)U.S. Fish & Wildlife Service, (10)Fisheries and Oceans Canada, (11)Ontario Power Generation, (12)United States Fish and Wildlife Service, (13)Duke Energy Carolinas LLC

03:40 PM

The Influence of a Cooperatively Developed Portside Sampling and Bycatch Communication Program on Fisheries Management Policies

Bradley Schondelmeier¹, N.David Bethoney² and William Hoffman¹, (1)Massachusetts Division of Marine Fisheries, (2)University of Massachusetts Dartmouth

04:00 PM

Cooperative Research to Evaluate and Improve a Potential Incidental Catch Reduction Strategy - CANCELED

Sara Turner¹, Jonathan Hare², John Manderson³, John Hoey² and David Richardson², (1)Massachusetts Division of Marine Fisheries, (2)NOAA/NMFS/NEFSC, (3)NOAA Fisheries Service, Northeast Fisheries Science Center

04:20 PM

[Using Collaborative Research to Better Manage the Nova Scotian Sea Cucumber Resource](#)

[N.David Bethoney](#)¹, *Kevin D.E. Stokesbury*¹ and *Mark Lundy*², (1)*University of Massachusetts Dartmouth*, (2)*Ocean Pride Fisheries*

04:40 PM

[NOAA Fisheries Cooperative Research Program](#)

Mark Chandler, *National Marine Fisheries Service*

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