



The Angler

Newsletter of the Colorado-Wyoming Chapter of the American Fisheries Society

www.cowyafs.org

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The Vent

Diana Sweet

The hot temperatures of this summer have really driven home the challenges that we all face as biologists in a constantly changing world. Most of these changes are out of our control. Heat waves, massive storm systems, nutrient loading, forest fires, chemical inputs, human expansion; they all impact the ecosystems that we work in, yet there is little we can do to mitigate the harm or maintain the benefits that may result. The changes that we can make are fraught with complications, financial difficulty, and time constraints. The pressure that biologists face is multifaceted, coming from so many different publics, interest groups, and government agencies. We certainly cannot please them all and, often times, we question if we should even try. The worries of an unstable economy and a politically charged country often overshadow the concerns of the fisheries worlds that we live in. Despite this, we continue in our struggle to manage Colorado and Wyoming waters and provide fisheries for the public to enjoy and use as an escape from their hectic lives. Stream by stream, lake by lake, we look to the fish and hope that we are making the right decisions for the future.



Business Meeting Minutes



Colorado-Wyoming Chapter of the American Fisheries Society 2012 Annual Business Meeting Minutes March 27, 2012 Jackson, Wyoming

Notes: Paul Gerrity

Attendees: Diana Miller (President), Ryan Fitzpatrick (Vice President), Paul Gerrity (Secretary/Treasurer), Ann Widmer (Past President), chapter committee members, and chapter members.

Diana Miller (President) - The meeting was called to order at 11:31 am. A quorum was determined at 11:33 am. Dirk Miller agreed to serve as parliamentarian. The business meeting agenda was unanimously approved.

State of the Chapter (Diana Miller) – The state of the chapter is good. The CO/WY Chapter of the AFS currently has 215 official members and there are an additional 50 that still need to renew for 2012. Thirty-five chapter members currently serve on a committee. Diana thanked the chapter members who put a lot of work in putting on the 2012 WD meeting.

Secretary-Treasurer Report (Paul Gerrity) – Paul presented two reports. The first report was a summary of chapter finances for fiscal year 2011, which ended on July 31, 2011. The chapter had a total profit of \$2,879 for fiscal year 2011. Paul also gave an update on the projected fiscal year 2012 budget. So far the chapter has received a \$1,000 donation from Wyoming State Parks and Archives and a \$2,250 donation from the sale of Wyoming Game and Fish Commissioner Jerry Galles' elk license. It was too early to tell how much money the chapter will make from hosting the 2012 Western Division AFS Annual Meeting; however, both the chapter and the division will each likely achieve their \$5,000.00 profit goal.

Dirk Miller asked if a thank-you letter had been sent to Commissioner Galles for the donation of some of the proceeds from his elk tag. Travis Neebling confirmed that a thank-you letter had been sent.

FY13 Proposed Budget (Ryan Fitzpatrick) - Ryan said that the 2013 CO/WY Chapter AFS Annual Meeting will be held in Fort Collins from February 25 – 27. With an estimated 100 attendees Ryan estimated that the Chapter will profit by \$8,000.

Committee Highlights (Diana Miller)

- **Newsletter** – The Newsletter Committee produced three issues of *The Angler* during the year. There have been no significant changes to the contents of *The Angler* over the last several years, and it's probably time for some updates and new features. Ideas from the membership on ways to improve the newsletter are welcome. The committee is also in need of a co-editor for this year to help produce the newsletter.
- **Continuing Education** - The Continuing Education Committee organized four workshops at the Western Division American Fisheries Society Annual Meeting in Jackson which provided continuing education for a total of 67 AFS members. The workshops included: AFS Leadership Workshop, Aquatic Plants Workshop, Stable Isotopes Workshop, and Introduction to R Workshop. The Continuing Education Committee is currently soliciting ideas for future workshops.
- **Archive:** The Archive Committee is pleased to report that it has completed a monumental effort in the chapter's plans to scan our archive collection and arrange for a formal long-term storage loan agreement with the D.C. Booth Historic National Fish Hatchery and Archive facility in Spearfish, South Dakota. The following is a synopsis of the events that took place to achieve this project:
 - A proposed budget request of \$2,000.00 was passed by the chapter membership.
 - The committee received a grant from the Wyoming State Historical Records Advisory Board for a \$1,000.00 for this project.
 - The scanning project was completed with a total cost of \$2,882.69 dollars. For this effort the chapter received a set of microfiche film and 2 professional CD's.
 - Copies of CD's containing our chapter archives were presented to the ExCom.

- On October 4, 2011 the committee hand delivered 5 boxes of paper documents, microfiche film and CD to Randi Smith, curator of the D.C. Booth Historic National Fish Hatchery and Archive facility in Spearfish, South Dakota, and secured a 3-year renewable loan agreement.
- Copies of past chapter proceedings were provided to the University of Wyoming and Colorado State University libraries as well as past copies of the chapter newsletter *The Angler* to the University of Wyoming.
- The Archives Committee's next effort will be to scan the chapter's photo collection. Research has begun to find a photo management system/software to scan the collection.
- A future endeavor is to start thinking about a 50th anniversary history write up. A committee may need to be formed.

Student Sub-unit Reports

- **Colorado State University (Eric Gardunio)** – The CSU subunit has been having bi-weekly meetings where 20-30 people show up. Some subunit students just got a mercury dilution research project published and others have a student's angle and pike predation study in press. Eric said that New Zealand mud snails have recently been discovered in College Lake, which is owned by CSU. Access to the lake has been subsequently been restricted by CSU, which prevented the subunit from holding their annual ice fishing derby. The subunit is currently trying to come up with a decontamination procedure so that they can resume activities on College Lake. Other activities that the subunit has participated in include assisting with a Poudre River cleanup and a kid's fishing day.
- **University of Wyoming (Eriek Hansen)** – The UW subunit currently has an all-undergraduate ExCom. Many guest speakers have appeared at subunit meetings over the past year. Subunit students will be assisting the Wyoming Game and Fish Department with PIT tagging and radio tagging of brown trout in Laramie River during the spring of 2012.

Unfinished Business

- **Memorial Scholarship Recipients (Diana Miller)** – Kyle Christiansen from CSU and Eriek Hansen from UW were this year's scholarship recipients
- **Awards (Jason Burckhardt and Diana Miller)** – Anna Senecal presented Patrick Lionberger (not present) with the "Max" award of Merit. The

University of Wyoming student subunit presented Wyoming Game and Fish Department fisheries biologist Steve Gale with an award for all of his work with the subunit over the years. Kevin Rogers presented Ben Swigle with the Leaky Boot Award. Diana Miller presented Ann Widmer with the Past President Award. The Awards Committee decided to wait until the meeting banquet to award the "Award of Excellence."

- **Announcement of New Secretary Treasurer (Paul Gerrity)** - Dan Brauch was elected as the Secretary/Treasurer for fiscal year 2013

New Business

- Diana announced that the Western Division AFS ExCom is looking for someone to chair the division's environmental concerns committee.

The meeting was adjourned at 12:03 pm

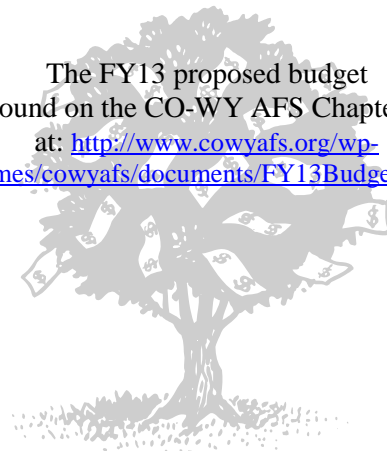
ExCom Meeting Minutes



ExCom meeting minutes are no longer published in The Angler newsletter. Minutes are now available on the chapter website at: <http://www.cowyafs.org/> under the "Documents" link.

FY13 Proposed Budget

The FY13 proposed budget can be found on the CO-WY AFS Chapter Website at: <http://www.cowyafs.org/wp-content/themes/cowyafs/documents/FY13BudgetProposed.pdf>



Annual Meeting Award Recipients



Award of Excellence: Mike Stone, Wyoming Game and Fish Department. For an outstanding career dedicated to the management and restoration of aquatic resources.

"Max" Award of Merit: Patrick Lionberger, Bureau of Land Management. For spearheading a project to reconnect and restore habitats on Muddy Creek to benefit roundtail chub, bluehead sucker, flannelmouth sucker, and Colorado River cutthroat trout.

"Leaky Boot" Award: Ben Swigle, Colorado Division of Wildlife. For leading a walleye spawning operation that lead to the sinking of two boats.



Best Student Paper: Mariah Mayfield, Montana State University. "Limiting factors for trout in the upper Clark Fork River superfund site, Montana: survival, movement, and habitat use."



Best Student Poster: Phil Gaskill, University of Wyoming. "Brown trout (*Salmo trutta*) spawning patterns in an urban stream."

Committee Updates - Colorado State University Student Subunit – Eric Gardunio

"Overcoming Obstacles while Facilitating Professional Growth": The CSU Sub-Unit has faced some new challenges in the last year, which are the perfect preparation for dealing with similar obstacles as we develop into fisheries professionals. Specifically, we are dealing with problems related to aquatic invasive species, and funding challenges (sound familiar?). Despite these difficulties, we had a productive 2011-2012 year, and are optimistic that we will be successful in 2013. Highlights from the last year are predominated by the completion of several studies and manuscripts. Our Sub-unit has forged a strong relationship with Jesse Lepack from Colorado Parks and Wildlife (CPW) which has led to two student-led research projects which were recently published in the peer-reviewed literature (Lepak et al. 2012, *Canadian Journal of Fisheries and Aquatic Sciences*; Lepack et al. *In press, Lake and Reservoir Management*). Additionally we were able to discuss the success our sub-unit has had collaborating with CPW on research projects in a Student Angle article (Pate et al. 2012, *Fisheries*). Thanks in part to the generous travel grants from the parent chapter, we were able to send a large group of students to WDAFS in Jackson Hole. This was a great opportunity for our students to network with professionals in the region. We appreciate the effort put into the meeting, and the financial assistance offered to our students. In addition, we conducted a successful Kids Fishing Day with the Boys and Girls Club of Larimer County, and were able to conduct a "Clean-up the Poudre River Day" with local middle school students. We also had a diverse round of bi-weekly talks during the school year covering topics including European nymphing techniques, commercial aquaponics, and native fish management. The challenges we are working on overcoming are related to the discovery of New Zealand mudsnails in College Lake. College Lake has sustained our Sub-Unit for years with the annual fishing derby where 100 anglers fish for northern pike on the lake. This derby funded our Sub-Unit, and allowed us to contribute \$1000 annually to the Louis Swift Scholarship awarded yearly to CSU fisheries students. We have been working on a decontamination procedure with CPW personnel that once approved, we can present to the authorities at CSU to attempt to restore our access to the lake. If access is restored, we will be putting on a fall derby in either September or October of this year. We are also currently looking for speakers for this year's meetings. If any Colorado-Wyoming Chapter folks are interested in speaking, we would love to have you in Ft. Collins. Thanks for reading, and cod bless.

Annual Meeting Photos



2012 Meeting Sponsors

Thank you to all of the sponsors who donated funds, resources, and items to make the 2012 meeting a success!

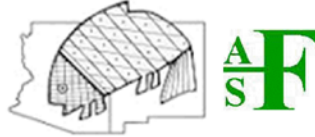
Cutthroat Trout (≥\$2,000)



Stantec



American Fisheries Society
Arizona - New Mexico Chapter



Sauger (\$1,000 - \$2,000)



HDR

SWCA
ENVIRONMENTAL CONSULTANTS
Sound Science. Creative Solutions.



GEI Consultants



Other

ReadyTalk
Audio & Web Conferencing

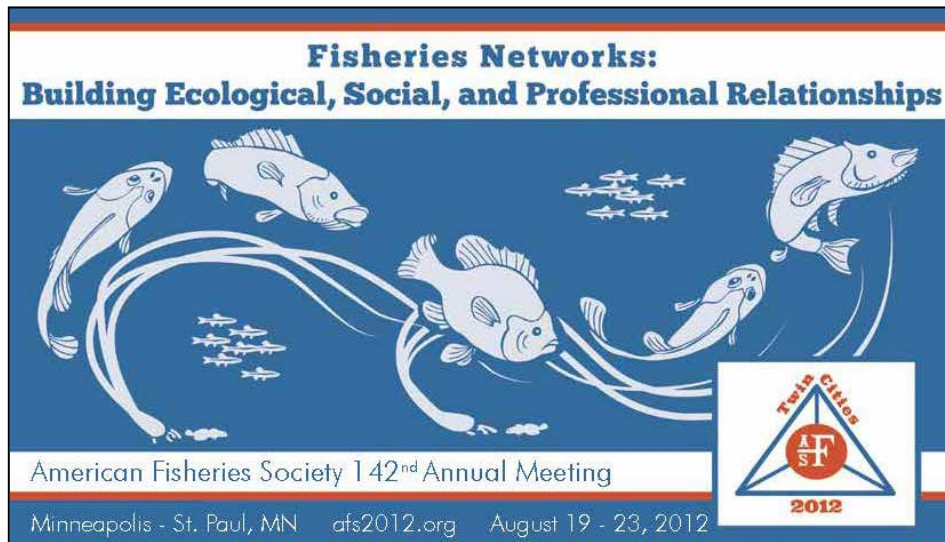
Treasurer's Report **Colorado-Wyoming AFS Fiscal Year 2012 Budget** **June 11, 2012**

BEGINNING CHAPTER BALANCES - August 1, 2011		June 11, 2012 BALANCES	
Checking	\$21,157		\$36,447
Savings	\$12,132		\$12,133
WD Investment Fund (value fluctuates)	\$11,716		\$13,047
TOTAL	\$45,005		\$61,627
INCOME		Estimated	Itemized
Annual Meeting Income (all categories)	\$77,183		Received to Date
Grant from WY State Parks and Archives	\$0		\$77,183
Wyoming Commissioners License	\$0		\$1,000
Chapter Rebates From Parent Society	\$300		\$2,250
TOTAL INCOME	\$77,483		\$331
TOTAL INCOME	\$77,483		\$80,765
ANNUAL MEETING EXPENSES		Estimated	Spent to Date
Awards Committee	\$438		\$438
Socials	\$6,050		\$6,050
Registration Supplies	\$138		\$138
Gifts	\$669		\$669
AV	\$13		\$13
Sign and Printing	\$666		\$666
Meeting Facility - Snow King	\$29,227		\$29,227
Students	\$1,487		\$1,487
Program	\$1,687		\$1,687
Marketing	\$1,000		\$1,000
Plenary	\$1,401		\$1,401
Tours	\$244		\$244
Continuing Ed	\$1,932		\$1,932
Spawning Run	\$699		\$699
Raffle	\$1,396		\$1,396
Profit split with Western Division	\$10,838		\$10,838
SUB-TOTAL ANNUAL MEETING EXPENSES	\$57,884		\$57,884
ANNUAL CHAPTER EXPENSES		Estimated	Itemized
Archive Committee	\$100		
		\$100	
Endowment Committee	\$50		
		\$50	
Registration Committee	\$580		
Undergraduate Student Memberships		\$80	
Student Travel Grants (WD Annual Meeting)		\$500	
Website Committee	\$227		
Domain Registration		\$227	
Other	\$2,150		
Western Division Donation		\$500	
Chapter Insurance		\$150	
Tax Preparation		\$500	
President Travel to Western Division Retreat		\$1,000	
SUB-TOTAL OPERATIONAL EXPENSES	\$3,107		\$1,877
BYLAW APPROVED EXPENSES		Estimated	Itemized
CSU Student Sub-unit	\$300		
Annual Contribution		\$300	
Executive Committee	\$2,984		
EXCOM Meeting Lunch		\$250	
VP Travel to WD Meeting (Seattle, WA) - On FY11 budget but paid in FY12		\$1,402	
VP Travel to WD Meeting (Jackson, WY)		\$1,332	
UW Student Sub-unit	\$300		
Annual Contribution		\$300	
SUB-TOTAL BYLAW EXPENSES	\$3,584		\$3,486
EXPENSES FOR EXCOM CONSIDERATION		Estimated	Itemized
(* <\$500/item, not to exceed \$2,000)			Spent to Date
CSU Student Sub-unit	\$500		
Student Colloquium		\$500	
UW Student Sub-unit	\$300		
Reimbursement for WD Meeting T-Shirts		\$300	
SUB-TOTAL EXCOM EXPENSES*	\$800		\$300
TOTAL PROJECTED EXPENSES	\$65,375		\$63,547
ESTIMATED CHAPTER FY12 ENDING BALANCE	\$61,147		
ESTIMATED CHAPTER FY12 PROFIT	\$16,142		

2011 - 2012 Chapter Officers and Committee Members

Chapter Officers		
President	Diana Sweet	Diana.Sweet@wyo.gov
Vice President	Ryan Fitzpatrick	Ryan.Fitzpatrick@state.co.us
Secretary/Treasurer	Paul Gerrity	Paul.Gerrity@wyo.gov
Past President	Ann Widmer	awidmer@swca.com
UW Subunit President	Clark Johnson	cjohn102@uwyo.edu
CSU Subunit President	Eric Gardunio	gardunio9@aol.com
Standing Committees		
Arrangements	Diana Sweet	Diana.Sweet@wyo.gov
Chapter Archivist	Greg Anderson (chair)	Greg.Anderson@wyo.gov
	Venice Beske	venice.beske@wyo.gov
Continuing Education	Jesse Lepak (co-chair)	jesse.lepak@state.co.us
	Bobby Compton (co-chair)	Bobby.Compton@wyo.gov
Environmental Policy	Ryan Fitzpatrick (chair)	Ryan.Fitzpatrick@state.co.us
	Ann Widmer	awidmer@swca.com
	Diana Sweet	Diana.Sweet@wyo.gov
Membership	Steve Gale (co-chair)	Steve.Gale@wyo.gov
	Boyd Wright (co-chair)	Boyd.Wright@state.co.us
Newsletter	Beth Bear (chair)	Beth.Bear@wyo.gov
	VACANT	
Nominating	Ann Widmer (chair)	awidmer@swca.com
Program	Rick Henderson (chair)	rhenderson01@fs.fed.us
	Rob Gipson	Rob.Gipson@wyo.gov
	Melissa Dickard	mdickard@blm.gov
Special Committees		
Audio-Visual	Nathan Cook	nathan.cook@wyo.gov
Awards	Jason Burckhardt (chair)	Jason.Burckhardt@wyo.gov
	Rodney Scarpella	rscarpella@hotmail.com
	Melissa Dickard	mdickard@blm.gov
Endowment Funding	Travis Neebling (chair)	Travis.Neebling@wyo.gov
Fundraising	Ann Widmer (chair)	awidmer@swca.com
	Matt Kondratieff	Matt.Kondratieff@state.co.us
Fundraising Vision	Mark Smith (chair)	Mark.Smith2@wyo.gov
	Travis Neebling	Travis.Neebling@wyo.gov
	Bill Bradshaw	Bill.Bradshaw@wyo.gov
Illegal Stocking	Craig Amadio (chair)	Craig.Amadio@wyo.gov
Mentoring	Bobby Compton	Bobby.Compton@wyo.gov
	Dan Brauch	Dan.Brauch@state.co.us
	Seth Firestone	Seth.Firestone@state.co.us
	Michelle McGree	michelle.mcgree@state.co.us
Paper/Poster Judging	Christina Barrineau (chair)	Christina.Barrineau@wyo.gov
Gifts	Christina Barrineau (chair)	Christina.Barrineau@wyo.gov
Raffle	Dan Brauch (chair)	Dan.Brauch@state.co.us
	Anna Senecal	Anna.Senecal@wyo.gov
Registration	Paul Gerrity (chair)	Paul.Gerrity@wyo.gov
	Kevin Johnson	Kevin.Johnson@wyo.gov
	Mark Smith	Mark.Smith2@wyo.gov
Student Liaison	Michelle McGree (chair)	michelle.mcgree@state.co.us
Trade Show, Vendors	Steve Gale	Steve.Gale@wyo.gov
	Liz Sunshine	
	Dave Fogel	
Tours	Carlin Girard	
Catering	Brian Hines	Brian.Hines@wyo.gov
Website	Travis Neebling	Travis.Neebling@wyo.gov
	Kevin Gelwicks	Kevin.Gelwicks@wyo.gov
	Mark Coleman	mark@fishecologist.com

News and Events



Welcome to the Twin Cities!

On behalf of the AFS 2012 Conference Team, we are delighted to extend a warm welcome to the Twin Cities and the 142nd Annual Meeting of the American Fisheries Society. Join us in expanding our ecological, social, and professional relationships centered around our common interest in Fisheries and Aquatic Sciences.

AFS President Bill Fisher, AFS Executive Director Gus Rassam, and AFS staff, along with local Committee Chairs and Committee Members have been diligently planning for over a year to bring you what we hope is a memorable and positive AFS and Twin Cities experience. We are excited to be rolling out some new conference innovations this year. We will be testing the use of electronic posters and exploring methods for virtual meetings, with some of our conference being available for colleagues who cannot attend. You can also plan and organize your conference experience on your wireless smart device, including reviewing abstracts and even taking notes during a presentation. This exciting technology has the capacity to make costly program books obsolete.

We have a full agenda planned with over 46 symposia, top-notch Plenary speakers, poster presentations, and an excellent trade show. Along with these activities, don't forget to reconnect with old friends, make new friends, strengthen professional relationships, and share ideas. Additionally, the evening socials will show off some of the best that Minnesota has to offer. August is a great time to be here! We hope that you will have some free time to explore the Twin Cities and outstate Minnesota. This is truly the land of 10,000 lakes where fishing and aquatic activities are second to none. Of course, we can't forget the great camping, hiking, parks, biking, sightseeing, and a lot more. Please visit the conference web site (afs2012.org) for additional information for planning an extended visit to Minnesota.

Enjoy the meeting. Enjoy the Twin Cities. We're looking forward to seeing you!

News and Events

2012 Wyoming Hunting and Fishing Expo

Held each September, the Wyoming Hunting and Fishing Heritage Expo is FREE and open to the public! Everyone is invited to be a part of the celebration of Wyoming's wildlife and wildlands by attending the Expo! There are hands-on activities and other educational opportunities for everyone regardless of age, physical ability or experience. The Expo is hosted by the Wyoming Game and Fish Department with exhibitors from over 150 businesses, agencies, and organizations.

Wyoming's wildlife-related recreational opportunities are so valuable and important that the Wyoming Game and Fish Department initiated the Wyoming Hunting & Fishing Heritage Expo in 1998, which has become an annual event. The Expo is just one way the Wyoming Game and Fish Department is helping to insure the future of Wyoming's hunting, fishing and wildlife viewing heritage for generations to come.

Expo'12 is the 15th annual and will be held **September 13-15, 2012!**

The Expo takes place at the Casper Events Center, the Center's grounds, and nearby shooting ranges in Casper, Wyoming.

For more information visit:

<http://wgfd.wyo.gov/web2011/education-1000262.aspx>



73rd Midwest Fish and Wildlife Conference

Sunday, December 9 - Wednesday, December 12, 2012

Hyatt Regency, Wichita, Kansas

Hosted by Kansas Dept. of Wildlife, Parks & Tourism

Call for Presentations & Symposia

Presentations and symposia ideas are currently being accepted. Interested in submitting a presentation or symposia idea for the **73rd Midwest Fish & Wildlife Conference**? [Click here](#) for more information including a list of the track chairs.

About the Conference

The annual Midwest Fish & Wildlife Conference attracts over 800 biologists and students from state and federal natural resource agencies across the 12 Midwestern states. Highlights include: over 400 technical talks, poster displays, plenary sessions, networking opportunities and social events.

The Next Evolution of Acoustic Telemetry Goes Mobile



Driven by the research needs of USGS scientists and others, the latest product for acoustic telemetry for fisheries research has arrived. Over the past decade, fisheries scientists around the world have used HTI acoustic telemetry to remotely track fish behavior with fine-scale 2D and 3D positions. These studies provided a wealth of information about fish passage, survival and behavior. Most often the surveys used fixed receivers for monitoring site-specific areas (e.g., water intakes, diversions, and hydropower dams). In recent years with increased need to evaluate fish behavior beyond fixed stations, an easy means for mobile surveys became essential.

HTI's new *Model 395 Micro Data Logger* finished testing this spring at various locations on the west coast. HTI (Hydroacoustic Technology, Inc.) announced its official release of the *Model 395 Logger* earlier this week. "There are a lot of questions about what happens between fixed acoustic telemetry stations and it's important to know whether or not these fish are surviving...and then what's happening to them," explains Sam Johnston, a Sr. Fisheries Biologist at HTI. "Being able to detect and identify each fish throughout the waterway will help us understand their journey better."

Data loggers are not new in acoustic telemetry. However, there are three new game changers exclusive to the *Model 395 Micro Data Logger* that make it unique. Beyond its ability to detect and identify hundreds of fish at the same time in real-time, it's now possible to achieve fine-scale 2D/3D tracking of each tagged fish with multiple units. "We're happy with the results and have put the new logger to work in ways we didn't consider before - like testing tags in holding areas between sites and tracking the survey boat's trajectory through the study region," said fisheries researcher Cherylyn Tunnicliffe.

To learn more about this new technology, HTI offers system details and potential fisheries research applications at http://www.htisonar.com/datalogger_Model395.html.

