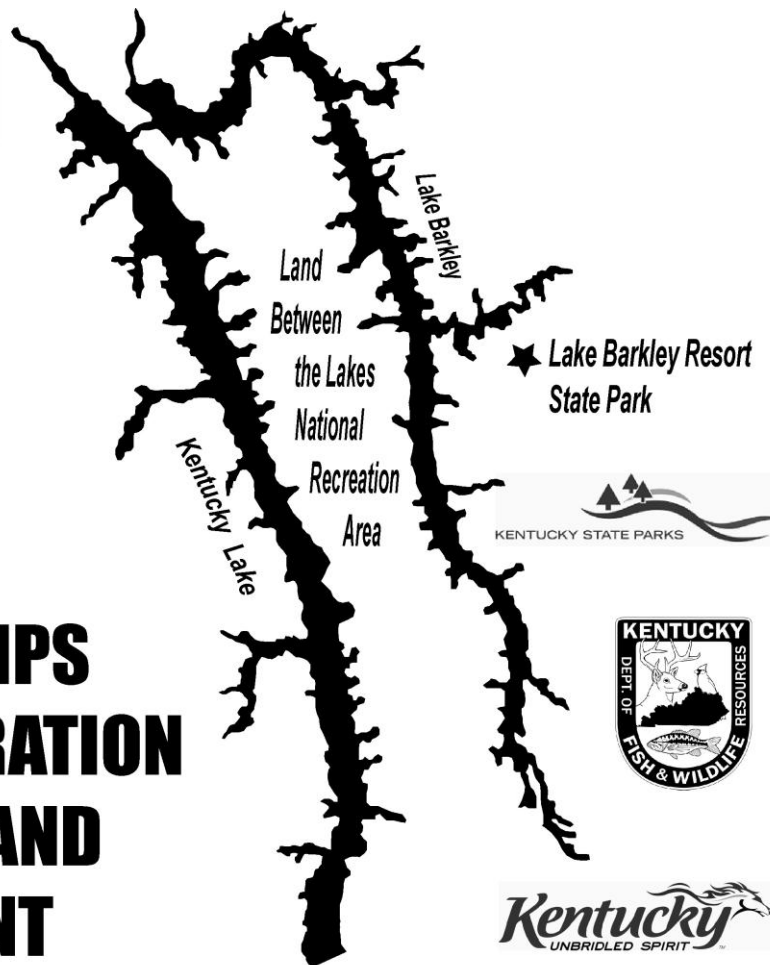


Organization of Fish and Wildlife Information Managers
Annual Conference and Business Meeting
October 18-21, 2010
Lake Barkley State Resort Park
Cadiz, Kentucky

**OFWIM
2010**



**PARTNERSHIPS
& COLLABORATION
IN PUBLIC LAND
MANAGEMENT**



Conference at a Glance:

Monday, October 18

Optional Field Trip -

Duck Island/Land Between the Lakes

Tuesday, October 19

Opening Plenary Session

General Session: What's New in GIS

General Session: Mobile Technology

General Session: New Technology

Hackers Ball - Poster Session

Wednesday, October 20

General Session: Using Data for Science

Lunch and Business Meeting

General Session: Sharing Data

Banquet and Keynote Presentation

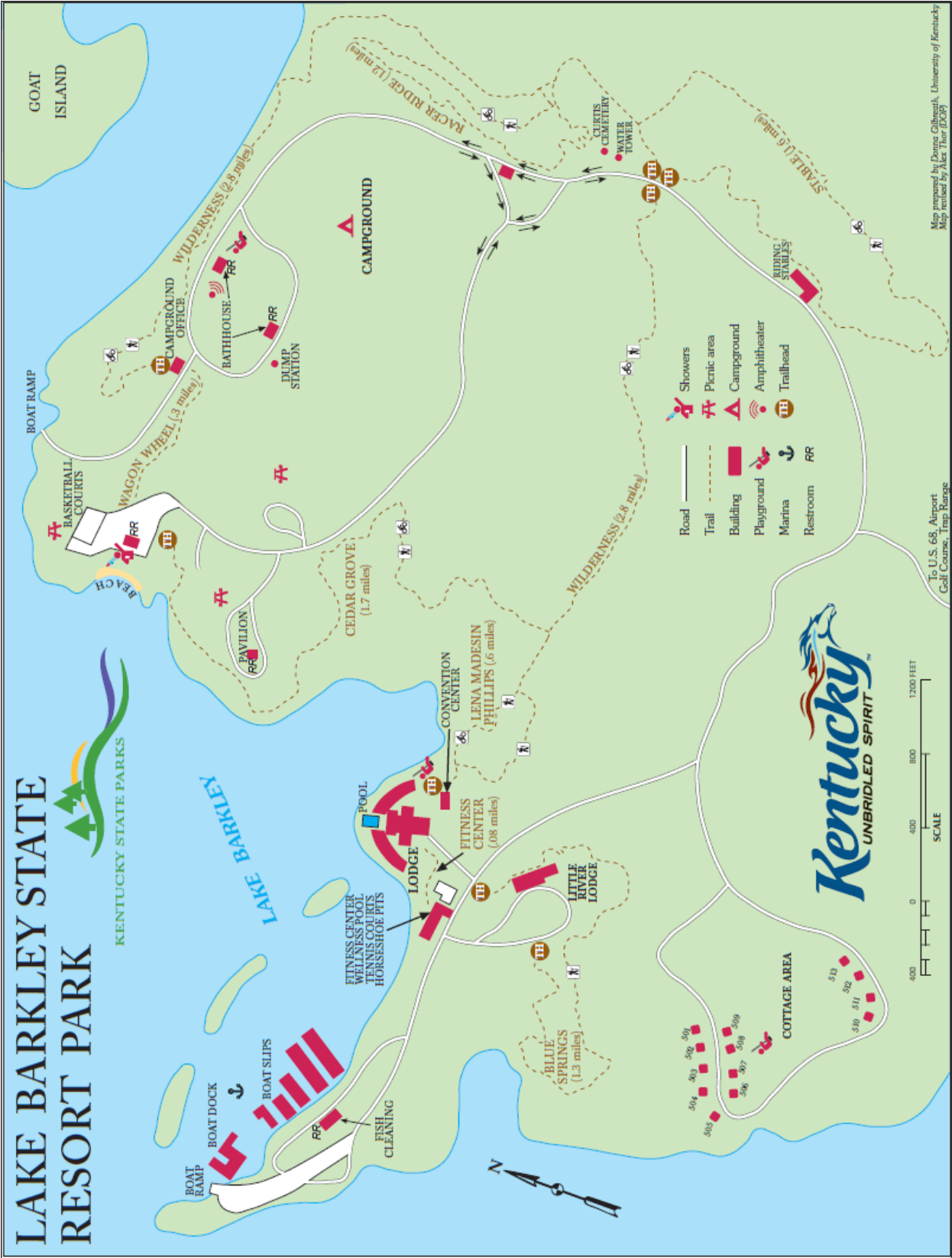
Thursday, October 21

General Session: State Wildlife Action Plans

General Session: Future Directions for OFWIM

Adjourn at Noon

LAKE BARKLEY STATE RESORT PARK



- Road
- Trail
- Building
- Playground
- Marina
- Restroom
- Showers
- Picnic area
- Campground
- Amphitheater
- Trailhead



To: U.S. 68, Airport Golf Course, Trap Range

Map prepared by Donna Calbreath, University of Kentucky

OFWIM 2010 Conference Agenda

Date Title Presenter Organization

Tuesday, October 19, 2010

Opening Plenary Session

- 8:30 AM Presidents Welcome
Jennifer Carlino OFWIM President
- 8:45 AM Welcome to Kentucky
Mary Schmidt Lake Barkley State Resort Park Naturalist
- 9:15 AM Opening Keynote Address: Kentucky's Jackson Purchase Region: Managing Public and Private Lands
Tony Black, Pat Hahs, Zak Danks, and Keith Wethington Kentucky Department of Fish and Wildlife Resources
- 10:00 AM Break/Raffle

What's New in GIS

- 10:30 AM A Land Managers Approach to Using ArcGIS
Brian Gray Kentucky Department of Fish and Wildlife Resources
- 10:55 AM Developing on-line mapping applications: Lessons learned the painful way
Jill Maxwell University of Idaho Gap Analysis Program
- 11:20 AM TALON - Geospatially Tracking Time and Accomplishments
Mark Brunner Missouri Department of Conservation
- 11:45 AM The Invasive Plant Atlas of the MidSouth and the Cactus Moth Detection and Monitoring Network: Keeping Up With Technology
Clifton Abbott Geosystems Research Institute

Lunch

- 12:15 PM Lunch - On Your Own

Taking it to the Streets - Mobile Technology

- 1:30 PM Raffle
- 1:35 PM Development of Handheld Applications for Biodiversity Information: a Two-Way Need for Interoperability
Annie Simpson U.S. Geological Survey National Biological Information Infrastructure
- 2:00 PM Smartphone Development: Examples at two Ends of the Spectrum
Kirk Keller Missouri Department of Conservation
- 2:25 PM Development of a Mobile Application for Collecting Spatial Oil Observation Information During Aerial Surveys
Beth Stys Florida Fish and Wildlife Conservation Commission
- 2:50 PM Break/Raffle

OFWIM 2010 Conference Agenda

Date Title Presenter Organization

Tuesday, October 19, 2010

Posters

The Invasive Plant Atlas of the MidSouth and the Cactus Moth Detection and Monitoring Network: Keeping Up With Technology

Clifton Abbott Geosystems Research Institute

Automation of Legacy Permit Systems

James E. Husband Virginia Department of Game and Inland Fisheries

Species Mashup: Biodiversity in the Information Age

Tanner Jessel USGS NBII-SAIN/lia

An Integrated Toolkit for Natural History Collections Management

Terri Killeffer USGS NBII-SAIN/lia

The Wildlife Health Event Reporter: Filling the Knowledge Gap with Public Participation

Cris Marsh USGS NBII Wildlife Disease Information Node

The Data Store: An online archive of data sets

Bruce Schmidt Pacific States Marine Fisheries Commission

Providing Access to Plant Specimen Data Through The US Virtual Herbarium

Elizabeth Sellers, Jennifer Carlino, and Jean Freeney U.S. Geological Survey National Biological Information Infrastructure

Development of Handheld Applications for Biodiversity Information: a Two-Way Need for Interoperability

Annie Simpson U.S. Geological Survey National Biological Information Infrastructure

Florida Fish and Wildlife Conservation Commission's Roles in Response to the DeepWater Horizon Oil Spill

Beth Stys Florida Fish and Wildlife Conservation Commission

Raptor: A Search Engine to Find and Retrieve Biodiversity Information

Sarah Wright U.S. Geological Survey National Biological Information Infrastructure

OFWIM 2010 Conference Agenda

Date Title Presenter Organization

Wednesday, October 20, 2010

Why We Do What We Do - Using Data for Science

- 8:30 AM Identifying Road Survey Sites for Kentucky CREP Quail and Grassland bird Monitoring
Keith Wethington and Gary Sprandel Kentucky Department of Fish and Wildlife Resources
- 8:55 AM Mapping Development to Assess Success of a Conservation Program
Don Katnik Maine Department of Inland Fisheries and Wildlife
- 9:20 AM Developing a system to track wetland changes over time using ArcSDE
Robb Macleod Ducks Unlimited, Inc.
- 9:45 AM Pollution Response Inventory and Species Mortality Program
Danny Lewis Texas Parks and Wildlife
Inland Fisheries Division - Region 3
- 10:10 AM Break/Raffle

Student Scholarship Award Session

- 10:30 AM Uncertainty in Species Distribution Mapping: A Case Study from Tigers in Sumatra's Forest and Plantation Landscapes
Sunarto Department of Fisheries and Wildlife Sciences, Virginia Tech
- 10:55 AM Determining endangered species habitat in face of cryptic species and few occupancy surveys: an example from the red panda (*Ailurus fulgens*)
Naveen Mahato Texas State University
- 11:20 AM Additive effects of mining and residential development on stream conditions in a central Appalachian watershed.
Eric Merriam West Virginia University

Lunch and Business Meeting

- 12:00 PM Lunch
- 12:45 PM Business Meeting
Jennifer Carlino OFWIM President
- 1:45 PM Service Awards
- 1:55 PM Raffle

Break

- 2:00 PM Opportunity for Peer Networking

OFWIM 2010 Conference Agenda

Date Title Presenter Organization

Wednesday, October 20, 2010

Spread the Wealth - Cooperation and Sharing of Data

- 2:30 PM Data Management to Support Coordinated Assessments: Finally, a reason to share data
Bruce Schmidt Pacific States Marine Fisheries Commission
- 2:50 PM The Fisheries and Aquatic Resources Data Access Wizard--A tool to visualize and access fisheries data
Maurie Caitlin Kelly Penn State University/U.S. Geological Survey National Biological Information Infrastructure
- 3:10 PM Making Southern Appalachian Biodiversity Information Available for Decision Making: Assessing Users' Information Needs and Practices
Miriam L.E. Steiner Davis University of Tennessee
- 3:30 PM Stretch/Raffle
- 3:50 PM Metadata and You: The Importance of Good Data Management
Viv Hutchison U.S. Geological Survey National Biological Information Infrastructure
- 4:10 PM Assessment of the Nation's fish habitats: Data system under development
Jeff Smith and Andrea Ostroff U.S. Geological Survey, National Biological Information Infrastructure
- 4:20 PM Florida Fish and Wildlife Conservation Commission's Roles in Response to the DeepWater Horizon Oil Spill
Beth Stys Florida Fish and Wildlife Conservation Commission

Banquet and Keynote Presentation

- 6:00 PM Banquet
- Keynote Presentation: Northern Bobwhite Conservation Initiative: Taking Partnerships to the Next Level
John Morgan Northern Bobwhite Quail Initiative
- Raffle

OFWIM 2010 Conference Agenda

Date Title Presenter Organization

Thursday, October 21, 2010

State Wildlife Action Plans

- 8:30 AM State Wildlife Action Plans Search Tool
Elizabeth Martin and U.S. Geological Survey National Biological Information
Melanie Steinkamp Infrastructure
- 8:55 AM Building a National SGCN Dataset: Moving from 56 Disparate Plans to One Integrated Product
Sky Harrison U.S. Geological Survey, National Biological Information
Infrastructure
- 9:20 AM Florida's State Wildlife Grants Program: Maximizing our return on
Kristin Rogers Florida Fish and Wildlife Conservation Commission
- 9:45 AM Species of Greatest Conservation Need Mashups
Jean Freeney and Andrea U.S. Geological Survey National Biological Information
Ostroff Infrastructure
- 10:10 AM Break/Raffle

Future Directions for OFWIM

- 10:40 AM AFWA and the OFWIM: Looking Forward
Kirk Keller Missouri Department of Conservation
- 11:05 AM OFWIM Actions - Where Can We Go from Here?
Keith Wethington New OFWIM President
- 11:30 AM Conference Wrapup - Comments, Critiques, Compliments?
- 11:55 AM Final Raffle!

Adjourn

- 12:00 PM Have a Safe Trip Home and We'll See You Next Year!

PRESENTATION ABSTRACTS

OFWIM 2010 Conference Abstract

Presentation

Tue, Oct 19, 2010 9:15 AM

Title Presenter Organization

Opening Keynote Address: Kentucky's Jackson Purchase Region: Managing Public and Private Lands

Tony Black, Pat Hahs, Zak Danks, and Keith Wethington Kentucky Department of Fish and Wildlife Resources

Abstract

The Jackson Purchase is a region of Kentucky bounded by the Mississippi River to the west, the Ohio River to the north, and Tennessee River to the east. In 1818 Andrew Jackson and Isaac Shelby purchased it from the Chickasaw Indians. Kentuckians generally call this region the Purchase.

The Purchase Region is distinctive in many ways from the rest of Kentucky. The interplay of major continental rivers has created a relatively flat depositional environment that is similar in many ways to the Gulf Coast further south. The abundant water, wetlands, and fertile soil combine to make this one of the most ecologically diverse areas of Kentucky. Additionally, the Purchase is the most intensively row cropped area of Kentucky. The Department of Fish and Wildlife Resources has implemented several strategies to conserve and protect the unique features of this area. One strategy has been direct purchase and management of public land in the area. Another strategy has been to dedicate staff to work with private land owners. Each of these approaches poses their own unique challenges and

Biography

Tony Black is a Wildlife Program Coordinator for the Kentucky Department of Fish and Wildlife Resources. Tony is the Jackson Purchase Regional Coordinator which includes the Land Between the Lakes.

Pat Hahs is a Public Lands Biologist for the Kentucky Department of Fish and Wildlife Resources in the Jackson Purchase Region.

Zak Danks is a Private Lands Biologist for the Kentucky Department of Fish and Wildlife Resources in the Jackson Purchase Region.

Keith Wethington is a Wildlife Program Coordinator for Kentucky Fish and Wildlife Information Systems within the Kentucky Department of Fish and Wildlife Resources.

OFWIM 2010 Conference Abstract

Presentation

Tue, Oct 19, 2010 10:30 AM

Title Presenter Organization

A Land Managers Approach to Using ArcGIS

Brian Gray

Kentucky Department of Fish and Wildlife Resources

Abstract

This presentation will give the perspective of a public lands manager using ArcGIS as a tool for documenting habitat types and planning activities. Primary responsibilities for public land managers include habitat manipulation, supervising technicians, and managing public use of the area. Managers are generally not trained in the use of ArcGIS or other geospatial tools. However, the tools and functionality available through ArcGIS can potentially save the manager time and increase overall efficiency. There is a trade off between spending time in the office using ArcGIS vs. time in the field managing species and habitats. This presentation will consist primarily of demonstrations and discussion of practical usage of ArcGIS by a land manager for tracking and planning habitat changes and management

Biography

Brian has worked nearly 19 years for the Ky Department of Fish and Wildlife Resources. During that time he has worked as a private lands biologist, an administrator in a Regional Coordinator position, and now a public lands biologist responsible for managing several Wildlife Management Areas including the 21,000 acre Green River Lake WMA.

Education:

BS in Forestry from Univ of Ky

MS in Wildlife Management from Univ of Maine

OFWIM 2010 Conference Abstract

Presentation

Tue, Oct 19, 2010 10:55 AM

Title	Presenter	Organization
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Developing on-line mapping applications: Lessons learned the painful way

Jill Maxwell

University of Idaho Gap Analysis Program

Abstract

The USGS Gap Analysis Program needed to develop an on-line mapping application that would facilitate exploration of its Protected Areas Database of the United States. Over the Summer of 2009, the beta version of the Protected Areas Database of the United States Viewer was developed. Subsequently, a second on-line mapping application, the GAP Land Cover Viewer, was developed to facilitate exploration and use of GAP's national land cover dataset. Both viewers were subjected to Usability Testing in the Spring of 2010. As a result of those tests, the PAD-US Viewer was redesigned and re-released in April 2010. The Land Cover viewing application will also incorporate usability recommendations in its upcoming

Biography

Jill Maxwell is the Communications and Outreach Director for the Gap Analysis Program. In addition to assisting with the development of the the Protected Areas Database of the US viewer and managing the GAP web site, she edits the Gap Analysis Bulletin, and has written several articles on the applications of GAP data to conservation projects.

Title Presenter Organization

TALON - Geospatially Tracking Time and Accomplishments

KirkKeller

Missouri Department of Conservation

Abstract

Keeping track of what management activity has been done on what piece of state land and when has always been spotty at best in Missouri. Add to that a desire to know how much time was spent on each of those activities and the ties between all of that information is practically nonexistent. The Time, Activity, Location Online Notebook (TALON) was developed to address that very issue. TALON is a Web based tool that acts as an employees timesheet but also ties every activity to a place on the map. This allows for a single point of data collection for time, activities, project associations, contacts, and accomplishment measures all tied together geospatially.

Development of TALON posed an number of issues that had to be addressed such as how to make the system available to every location in the state with a reasonable response time over a variety of connections. Another challenge was providing basic GIS capabilities over the Web that were easy to understand and responsive without sacrificing basic functionality. This presentation will cover the basic concepts implemented in the system, an overview of the technology used, and plans to leverage that technology to provide future services both internally and for public consumption.

Biography

Kirk Keller is the application Development Supervisor for the Missouri Department of Conservation. He has been with the agency for 15 years.

Title	Presenter	Organization
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The Invasive Plant Atlas of the MidSouth and the Cactus Moth Detection and Monitoring Network: Keeping Up With Technology

Clifton Abbott

Geosystems Research Institute

Abstract

Current technology is an ever evolving concept. Technology that was current just months ago is now in the middle or the back of the crowd. As the concept of current technology changes, systems that were built on that technology have to move with it, or run the risk of getting left behind. Systems that get left behind eventually die as old technology becomes unsupported or incompatible with the newer technology. However, keeping up with current technology poses problems of its own and is expensive in time and money.

The Invasive Plant Atlas of the MidSouth (IPAMS) and the Cactus Moth Detection and Monitoring Network (CMDMN) are two web database/mapping systems developed to help locate, track, and manage invasive species. IPAMS is designed to allow volunteers to report and track invasive plant species, and provides land managers with information needed to help control the invasive plants. The Cactus Moth Detection and Monitoring Network is a system that allows the tracking of the very invasive and destructive cactus moth (*Cactoblastis cactorum* Berg.) as it moves north and west. Both database/mapping systems started out on small servers using ESRI ArcMap 9.0 to serve the data to the web. These systems have gone and are still going through upgrades in an effort to keep up with current technology. We are still in the process of porting these systems to ESRI 9.3.1 software and are planning for the v10 release.

Biography

Clifton Abbott has been designing and developing software systems for over 15 years. He started by developing software systems for the Navy that visualized oceanographic data, allowing an expert to analyze that data for certain patterns and trends. Today, the software systems that he designs are more web enabled, but still providing data management, visualization, and analysis to the user. Clifton is the developer for the Cactus Moth Detection and Monitoring Network and the Invasive Plant Atlas of the MidSouth. Clifton also heads the web department for the High Performance Computing Collaboratory at Mississippi State University that serves five organizations.

Title Presenter Organization

Development of Handheld Applications for Biodiversity Information: a Two-Way Need for Interoperability

Annie Simpson

U.S. Geological Survey National Biological
Information Infrastructure

Abstract

The future of Web access is through handheld devices. In 2008, the Pew Internet and American Life Project estimated that by 2020, people will primarily connect to the Internet using mobile devices. Today, there are estimates that 30% of all Internet searches are performed via handheld devices.

The National Biological Information Infrastructure has formed a working group to facilitate collaboration among developers of handheld apps for managing biodiversity information. We foresee two main areas of interest:

- 1) developing and improving data upload functionality for field observations and seamless transmission to Web-based systems;
- 2) improving access to and readability of existing Web information via handhelds utilizing many different operating systems (iPod, Blackberry, Droid, and others).

This presentation will describe a few of the ongoing efforts of the NBII and our partners, and how the developing applications can make a difference to on the ground data managers and volunteer citizen scientists.

Biography

Annie is the invasive species information manager at the National Biological Information Infrastructure (NBII), based at the headquarters of the US Geological Survey <http://invasivespecies.nbii.gov> in the USGS Biological Informatics Office. Annie led a Federal Inter-Agency working group that created the National Framework Website for Invasive Species Early Detection, Rapid Assessment, and Rapid Response <http://edrr.nbii.gov>. She is also chair of the Global Invasive Species Information Network and the US lead for the Invasives Information Network (I3N) of the Inter-American Biodiversity Information Network

OFWIM 2010 Conference Abstract

Presentation

Tue, Oct 19, 2010 2:00 PM

Title	Presenter	Organization
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Smartphone Development: Examples at two Ends of the Spectrum

Kirk Keller

Missouri Department of Conservation

Abstract

In 2010, the Missouri Department of Conservation began work on two different smartphone applications; an application allowing agents in the field to look up permit, checking and violation records and a public application allowing anglers to find boat ramps and fish attractors.

These two applications represent two different approaches to building a mobile application – coding natively to the phone platform or building the application as a Web application to leverage new features available in the evolving HTML 5 specification. Creation of any mobile application will fall somewhere in a spectrum between these two approaches. This presentation will explore the decisions that lead use of these two different approaches and evaluate the pros and cons of both.

Biography

Kirk Keller is the application Development Supervisor for the Missouri Department of Conservation. He has been with the agency for 15 years.

Title Presenter Organization

Digital Capture of Field Data

Bruce Schmidt

Pacific States Marine Fisheries Commission

Abstract

Character recognition software provides significant potential to support the capture of field data in electronic format and avoid the problems associated with electronic devices in the rugged environments where we sample. The digital pen is proving its value in field testing related to the primary concerns over durability/reliability, accuracy and cost. The pen has been reliable even around wet environments. Accuracy is good, although the data should be assessed and practice at penmanship helps. And, costs can be reduced for larger orders or by utilizing a 'cloud' option. A second approach being investigated involves development of 'software friendly' forms and then scanning them to character recognition software. This option eliminates extra equipment in the field, but does require that completed forms be clean. The cost structures between these options are different, and relative cost may have to be determined on the basis of actual planned usage. Use of character recognition is proving to be a significant step toward obtaining greater benefit from Information Technology in the collection and management of fish and wildlife data by eliminating the step of converting data to electronic format.

Biography

Bruce Schmidt has over 35 years of experience in fisheries management, research and administration spanning four states. He holds a BS in Fisheries Management, an MS in Fish and Wildlife Science, and began work with computers in 1973 using Fortran IV. His work experience includes positions as research biologist, planner, research director and fish chief. He is currently employed in the field of information management as Program Manager of the StreamNet Project with the Pacific States Marine Fisheries commission.

Title	Presenter	Organization
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Getting the Whole Picture: Evaluation of a Tool for Recording Presentations and Providing Training

Danny Lewis

Texas Parks and Wildlife
Inland Fisheries Division - Region 3

Abstract

Abstracts and digital slides provide only a piece of the picture when a speaker gives a presentation. And training someone to perform a task involving the computer frequently requires that the trainee either be in attendance during the training, or else view screen shots later depicting the tasks to be performed. Once a conference or training event is over, individuals who were unable to attend are left without a major component from each presentation – the speaker’s voice - to explain the slides and screen shots that are provided in the files that remain.

After learning of the use of Camtasia Studio for recording presentations at a recent regional fisheries meeting, I was asked to evaluate the product. Further investigation uncovered that this tool closes the gap left by slides and abstracts alone by filling in the missing piece, the presenter’s voice. This is accomplished by capturing in a video either the slide advancement during a presentation or the steps performed in training a topic. At the same time, the audio from the speaker is recorded with a microphone. Both audio and video are saved to a file and made available to the target audience.

As a result, this package provides individuals with the ability to return to a presentation or training session repeatedly and listen to the speaker explain the topic the way it was originally presented. This grants the user a clearer understanding of the subject matter without further effort on the part of the presenter.

Biography

Danny is a Program Specialist with the Texas Parks and Wildlife. He holds a Bachelor’s Degree in Computer Science from the University of Texas at Tyler. He has provided programming and computer support to the Inland Fisheries Division for over 18 years. While primarily using .NET and SQL Server to develop within an intranet environment, he also has experience with creating touch screen kiosks, as well as working with point of sale

Title Presenter Organization

Are You Questioning My Integrity?

Don Katnik

Maine Department of Inland Fisheries and Wildlife

Abstract

Data QC can be just as tedious as writing metadata and just as important. Unfortunately, visual inspection—a common QC method—can be very ineffective. Repetitive tasks fatigue the human brain, increasing the likelihood of missing errors. In contrast, computers excel at repetition. Maine Department of Inland Fisheries and Wildlife (MDIFW) developed a data integrity toolkit to leverage this capability. The toolkit is used weekly to test the integrity of MDIFW's wildlife observations database, which is a relatively complex Microsoft Access/ArcGIS relational database with a variety of points and polygons and feature-level metadata. The toolkit includes capabilities for detecting and logging 18 types of errors; documenting fixes; and investigating the geometric, attribute, and metadata history of every feature in the database since its inception. The testing methodology can be documented as part of the metadata so users have better awareness of data quality. We believe this approach increases our ability to maintain database integrity while freeing up staff time for creating data and fixing actual problems.

Biography

Dr. Donald Katnik has been the Habitat Group Leader at Maine Department of Inland Fisheries & Wildlife since 2005. The Habitat Group is responsible for all GIS mapping of wildlife observations and regulated habitats. His background includes degrees in wildlife management and natural resource sciences. He has worked for a variety of state and federal agencies in the Pacific Northwest, Alaska, and now Maine. His hobbies include helping his wife spoil their two dogs and home improvement projects on their 190-year-old house. He is a member of the OFWIM Data Standards & Technology Trends Committee and the Training & Education Committee.

OFWIM 2010 Conference Abstract

Presentation

Wed, Oct 20, 2010 8:55 AM

Title Presenter Organization

Mapping Development to Assess Success of a Conservation Program

Don Katnik

Maine Department of Inland Fisheries and Wildlife

Abstract

At OFWIM 2009, I presented a project by Maine Department of Inland Fisheries & Wildlife to map development (roads and buildings) across the state. Data capture was just beginning then, so I only presented our objectives and methods. The project is now almost complete, so this year I am presenting our results, conclusions, and preliminary analyses with the data. To recap: why map development? Wildlife habitat is subjective and dynamic, whereas development is objective and permanent—so it is easier to map. In some areas, development is so pervasive that what remains is the only “habitat” left. Even these marginal habitats can provide connectivity that can be identified just by looking at the undeveloped landscape. Further, incremental changes over time and across broad geographic extents can be quantified by mapping development for multiple time periods. Our goal was to map all paved roads and buildings (>900 ftl) for 2004 and 2007; that is 84% complete. Imagery for 2009 is now available, so we are adding a third time series. Since 2000, Maine’s Beginning With Habitat program has provided natural resource GIS data to landscape planners to facilitate smart growth. Many other states have similar programs, but it is hard to determine their effectiveness. I used our development maps to assess whether towns that received Beginning with Habitat data are indeed demonstrating

Biography

Dr. Donald Katnik has been the Habitat Group Leader at Maine Department of Inland Fisheries & Wildlife since 2005. The Habitat Group is responsible for all GIS mapping of wildlife observations and regulated habitats. His background includes degrees in wildlife management and natural resource sciences. He has worked for a variety of state and federal agencies in the Pacific Northwest, Alaska, and now Maine. His hobbies include helping his wife spoil their two dogs and home improvement projects on their 190-year-old house. He is a member of the OFWIM Data Standards & Technology Trends Committee and the Training & Education Committee.

OFWIM 2010 Conference Abstract

Presentation

Wed, Oct 20, 2010 9:20 AM

Title	Presenter	Organization
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Developing a system to track wetland changes over time using ArcSDE

Robb Macleod

Ducks Unlimited, Inc.

Abstract

The U.S. Fish and Wildlife Service's (FWS) National Wetlands Inventory (NWI) has been used for many modeling and planning activities because it covers a large area and uses a consistent classification. However, much of this inventory is 20 to 30 years old in the Great Lakes and some of the data is still in hardcopy format. The usefulness of the NWI data has been diminished due to its age, availability, and the FWS's limited resources for updating the NWI.

Ducks Unlimited is working with a consortium of public and non-profit organizations to update the National Wetlands Inventory in the Great Lakes region. The consortium was also interested in tracking the wetland changes over multiple time periods. Therefore, a database scheme was developed in an ArcSDE environment for the update process that allows the user to track the changes in wetlands over multiple time periods. This was accomplished using "parent" and "child" keys and a status attribute. This presentation will

Biography

Mr. Macleod oversees the GIS activities in the 18 state Great Lakes/Atlantic Region of Ducks Unlimited. He works closely with the Region's Conservation Planner and Regional Biologists to perform spatial analysis for targeting conservation efforts and planning

OFWIM 2010 Conference Abstract

Presentation

Wed, Oct 20, 2010 9:45 AM

Title Presenter Organization

Pollution Response Inventory and Species Mortality Program

Danny Lewis

Texas Parks and Wildlife
Inland Fisheries Division - Region 3

Abstract

For over half a century, Texas Parks and Wildlife Department (TPWD) has investigated mass mortalities of fish and wildlife, as well as pollution events that impact the Texas landscape and waterways. Exploring the causes of kill events is critical to the management of fish and wildlife populations in the state. When a kill is caused by human activity, the agency has a legislative mandate to record the magnitude of the loss, identify the responsible party, and require restitution for damage to fish and wildlife.

To maintain this data, the Pollution Response Inventory and Species Mortality (PRISM) program was developed in the 1990s using Microsoft Access. This desktop application contained a separate module for calculating complex restitution values and offered limited querying tools for reporting findings. Over time, increases to available technology coupled with additional needs by staff provided sufficient justification for seeking a modern solution.

Utilizing .NET and SQL, PRISM was migrated to the Inland Fisheries intranet server (GoFish). The data integration process was streamlined by providing a central storage point for information, eliminating differing versions of data among the offices. PRISM joins a common environment umbrella that is supplied for all database applications within the GoFish framework. As a result, staff has a recognizable browser interface to access data on new

Biography

Danny is a Program Specialist with the Texas Parks and Wildlife. He holds a Bachelor's Degree in Computer Science from the University of Texas at Tyler. He has provided programming and computer support to the Inland Fisheries Division for over 18 years. While primarily using .NET and SQL Server to develop within an intranet environment, he also has experience with creating touch screen kiosks, as well as working with point of sale

Title	Presenter	Organization
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Uncertainty in Species Distribution Mapping: A Case Study from Tigers in Sumatra's Forest and Plantation Landscapes

Sunarto

Department of Fisheries and Wildlife Sciences,
Virginia Tech

Abstract

Understanding species distribution represents one of the most basic steps in ecological science as well as wildlife management. To determine the status of a species and relevant action in management, for example, scientists and managers rely tremendously on the information related to the distribution of the species. Despite the very basic and critical roles its play, approach in species mapping remains relatively unsettled and many critical issues remains relatively poorly addressed. Different ways of mapping the distribution or the probability of occurrence of the critically endangered Sumatran tigers in forest and plantation landscapes were used as a case study to illustrate one of the most critical issues in species mapping: uncertainty. To assess different aspects of uncertainty in species mapping and discuss on how to mitigate and/or report them, this paper evaluates several aspects potentially become the sources of uncertainty. These include the quality of secondary data typically used in species occurrence model, the design and implementation of field sampling to collect primary data, the development of wildlife-habitat relationship models, and the production of spatially-explicit models using GIS software. A new approach in species mapping accounting the uncertainty in detecting the species, recognizing that it is not always perfect, was applied for Sumatran tigers. Potential application for other

Biography

Sunarto is a PhD Candidate at the Department of Fish and Wildlife Conservation, Virginia Tech. His current research aims to investigate tiger distribution, population, and habitat use in the landscape matrix consisting of forest and plantation areas in Central Sumatra. Sunarto and his team have helped the government of Indonesia to develop the National Strategy and Action Plan for Sumatran Tiger Conservation, as well as engaging private sector and preparing a guideline for better management practices to support tiger conservation. Sunarto is a member of IUCN Cat Specialist Group. He completed his MSc in Applied Ecology and Conservation at the University of East Anglia, UK.

Title	Presenter	Organization
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Additive effects of mining and residential development on stream conditions in a central Appalachian watershed.

Eric Merriam

West Virginia University

Abstract

Large scale surface mining in southern West Virginia significantly alters headwater stream networks. It is unclear; however, the extent to which mining interacts with other stressors to determine conditions in aquatic systems downstream. We conducted a watershed-scale assessment of Pigeon Creek, an intensively mined watershed of the Tug Fork drainage in Mingo County, WV. Our objectives were to: 1) develop landscape-based indicators of mining and residential development; 2) quantify the interactive effects of mining and residential development on in-stream conditions; and 3) identify landscape-based thresholds above which biological impairment occurs in this intensively mined watershed. Macroinvertebrate community structure was negatively correlated with increasing intensity of mining and residential development. Correlation analysis and partial Mantel tests indicated that mining (% of total sub-watershed area) resulted in more acute changes in water chemistry, whereas residential development (parcel density) had a stronger effect on both physical habitat and macroinvertebrate community structure. The combined effects of mining and development on in-stream biotic conditions were additive. Sites impacted by equivalent levels of both stressors exhibited lower EPT richness than sites effected by either stressor alone. Biological impairment thresholds were observed at ~25% total mining (equivalent to a specific conductance of ~250 μ S/cm) and parcel densities of ~5 and 14 parcels/km². Our results provide a tool that can be used to predict ecological response to proposed mining given pre-existing watershed conditions. Furthermore, this study suggests that effective management of impacts from new mine development must address the prevalence of non-mining related impacts in this region.

Biography

Being a native West Virginian, I have had the privilege of growing up in the heart of the Appalachian Mountains and taking advantage of the many outdoor activities that they have to offer. However, as I furthered my education, I became aware of the many ways in which humans are impacting the region's natural resources, and I decided to pursue a career that would enable me to become part of the solution. I was accepted as a Master's student within the Wildlife and Fisheries Resources Program at West Virginia University, where I examined how multiple anthropogenic impacts affect aquatic systems in southern West Virginia. Large-scale surface mining within this region has been shown to be a dominant stressor on receiving streams, and as a result, current management plans focus on mitigating these impacts. We discovered, however, that the impacts of large-scale surface mining combine additively with those of residential development to produce highly degraded conditions. Consequently, our research identified the importance of addressing the impacts of both stressors in order for restoration in this region to be successful. I have been lucky enough to continue my research at WVU as a PhD student. My current research focuses on alternative futures analysis in intensively mined watersheds of the central

Title Presenter Organization

Data Management to Support Coordinated Assessments: Finally, a reason to share data

Bruce Schmidt

Pacific States Marine Fisheries Commission

Abstract

Getting biologists to share their data has frequently been a challenge. Biologists' concerns often center around fear of misuse of data, use of data before they have a chance to publish, extra work to support someone else's need, and the time required to fulfill requests. Agency concerns include cost, loss of agency control over the data and its use, and lack of direct benefit to the agency because they already have the data. What has been lacking is a shared need where all agencies work together and share data to meet a common objective. Recently, salmon and steelhead populations in the Pacific Northwest have been listed under the Endangered Species Act, which has led to a need to report on the abundance of the populations. Since many populations cross jurisdictional boundaries, state and tribal agencies are now collaborating on monitoring and conducting Cooperative Assessments of populations, which requires sharing data. Initial efforts are focusing on identifying existing data, describing data flow pathways, and sharing data sets directly. However, recognition of the value of automated data sharing is growing, and longer term objectives include development of agency data systems capable of hosting data as web services, and ultimately to build a data sharing approach similar to the EPA Exchange Network. Getting this far has been daunting, and it took a recognition that building data systems could help them meet their own needs to finally begin making serious progress.

Biography

Bruce Schmidt has over 35 years of experience in fisheries management, research and administration spanning four states. He holds a BS in Fisheries Management, an MS in Fish and Wildlife Science, and began work with computers in 1973 using Fortran IV. His work experience includes positions as research biologist, planner, research director and fish chief. He is currently employed in the field of information management as Program Manager of the StreamNet Project with the Pacific States Marine Fisheries commission.

OFWIM 2010 Conference Abstract

Presentation

Wed, Oct 20, 2010 2:50 PM

Title	Presenter	Organization
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The Fisheries and Aquatic Resources Data Access Wizard--A tool to visualize and access fisheries data

Maurie Caitlin Kelly

Penn State University/U.S. Geological Survey
National Biological Information Infrastructure

Abstract

The Fisheries and Aquatic Resources Data Access Wizard is a service of the FAR Node of the National Biological Information Infrastructure in collaboration with Penn State University. The FAR Data Access Wizard provides direct access to fisheries, habitat, hydrologic, and base data layers to support education, research, and conservation. The Data Access Wizard is free to the public and allows direct FTP of geospatially enabled data, serves data via Internet Map Services, Google Earth KML, and through an Open Layers Data Preview option. Data partners include NY DEC, PA Fish and Boat Commission, and many others.

Biography

Maurie Caitlin Kelly is the director of informatics for Penn State Institutes of Energy and the Environment and has worked with geospatial information, government agencies, and non profits for 20 years to provide access to data. She is the principal investigator for the FAR and MAIN Node geospatial initiatives at Penn State.

Title Presenter Organization

Metadata and You: The Importance of Good Data Management

Viv Hutchison

U.S. Geological Survey National Biological
Information Infrastructure

Abstract

As the costs of collecting data rise, it is increasingly important for organizations and individual scientists to manage scientific data well. Data can often be reused, many times for purposes unforeseen at the time of data collection. Climate change data, for example, is used to make predictions through models that rely heavily on decades of data collection. Data management is finally being recognized by funding agencies as a critical part of science as evidenced by more requirements for data management plans in funding proposals. Metadata is increasingly being seen as a critical component in the discovery, access, and reuse of data - metadata adds value to the dataset such that it can be understood by other scientists and documented for long-term preservation – but the true value lies in the ability to manipulate, integrate, and visualize data. This presentation will explore what the components of good data management are, and how they benefit science.

Biography

Viv is the Metadata Program Coordinator for the US Geological Survey's National Biological Information Infrastructure (NBII). During her 8 years with the program, she has trained over 800 scientists and data managers in metadata creation. She coordinates a metadata program that includes a national Clearinghouse, metadata assistance, quality control, and metadata outreach. She is on the Leadership Team for DataONE, an National Science Foundation initiative, and has participated in OFWIM for 7 years, several of which were spent in officer and chairperson roles.

OFWIM 2010 Conference Abstract

Presentation

Thu, Oct 21, 2010 8:30 AM

Title	Presenter	Organization
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State Wildlife Action Plans Search Tool

Elizabeth Martin and
Melanie Steinkamp

U.S. Geological Survey National Biological
Information Infrastructure

Abstract

State Wildlife Action Plans (SWAPs) are a potential rich source of data and information for cross-state and regional conservation planning. However, differences in organization, format and content of SWAPs have hindered their use in large-scale conservation planning. A mechanism is needed for discovery and access of information from the various SWAPs. To begin addressing this need, a web-based pilot tool for searching bird information across SWAPs was developed for the Atlantic Coast Joint Venture region. Development of the tool, supported by the U.S. Fish and Wildlife Service and the U.S. Geological Survey's National Biological Information Infrastructure, is a proof of concept on use of semantic technologies to search SWAP documents. Semantic technologies allow computers to discover the meaning of data by focusing on the relationships among data and storing those relationships for subsequent data searches and retrieval. A demonstration of the SWAPs search tool will be provided to solicit feedback on the prototype and to assess potential interest in future expansion of the tool's functionality and coverage to other states and

Biography

Elizabeth Martín is the manager of the NBII Bird Conservation Node. She has worked for the U.S. Geological Survey's National Biological Information Infrastructure (NBII) program over the past 10 years, and has extensive experience coordinating biological and biodiversity information programs and networks across the Americas.

Title	Presenter	Organization
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Building a National SGCN Dataset: Moving from 56 Disparate Plans to One Integrated Product

Sky Harrison

U.S. Geological Survey, National Biological
Information Infrastructure

Abstract

The NBII has built a technical framework – database, content management system and application interface – to efficiently harvest, integrate and deliver species information from an array of existing data sources. The first live implementation of the Species Mashup, as it is called, has focused on Species of Greatest Conservation Need (SGCN) from the State Wildlife Action Plans. The overall goal of this effort was to create a value-added, base product that enabled analysis, comparison and visualization across states / territories and at a national scale. To accomplish this task, a small Content Working Group was formed, strict content governance and data management standards were established, and the necessary tools and applications were developed. After over one year of effort, a national-level, integrated product has been completed (currently in the verification and documentation phase). The process from start to finish will be described, the data management plan and associated challenges and outstanding issues detailed, and the final SGCN Species Mashup product demonstrated.

Biography

Sky Harrison is a Project Coordinator and Content Manager for the U.S. Geological Survey's National Biological Information Infrastructure, Pacific Basin Information Node (NBII PBIN). He has worked with NBII PBIN since 2004 and has over 12 years experience with biological informatics and data management. His core activities include project administration; grant / proposal writing; content / data management and integration; facilitation of data aggregation and data sharing among biodiversity data providers; and development of web-based systems that provide access to Pacific Basin biodiversity information. He has most recently led the content and data related efforts to create a national SGCN base dataset for use in the NBII Species Mashup. He has a BS in Environmental Science and a Minor in Geographic Information Systems from UC Davis.

OFWIM 2010 Conference Abstract

Presentation

Thu, Oct 21, 2010 9:20 AM

Title	Presenter	Organization
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Florida's State Wildlife Grants Program: Maximizing our return on investment

Kristin Rogers

Florida Fish and Wildlife Conservation Commission

Abstract

Since 2003, the Florida Wildlife Legacy Initiative (FWLI) State Wildlife Grant Program (SWG) has funded 121 projects focused on the primary goal of keeping Florida's common species common. Although the funded projects vary greatly in scope, the vast majority of projects funded thus far have focused on filling data gaps for priority species and habitats throughout Florida. During the seven years that SWG funded research has been conducted an enormous amount of data has been collected, mined, and analyzed with regard to species and habitats of greatest conservation need. Looking forward the FWLI and its partners have set forth goals for the program that will focus on synthesizing information that has been collected though previously funded SWG research. After reviewing the data products delivered by several projects of interest, it has become apparent that greater guidance needs to be provided to grantees in order to maximize the detail, value, usability, and potential compatibility of the data products produced in association with SWG grants. To this end a SWG data coordinator has been named to facilitate the data delivery process. The coordinators duty is to develop data delivery standards and to work with each individual grantee to ensure they understand the specific data deliverables that are expected upon completion of their grant. The coordinator also works with previous grantees to retroactively collect and standardize SWG data products.

Biography

Kristin Rogers has worked for the Florida Fish and Wildlife Commission for eight years. She has an M.S. in Fisheries and Aquatic Sciences from the University of Florida and has worked for the Commission as both a Fisheries Biologist and a Scientific Data Coordinator. This year she adopted the roll of State Wildlife Grant Data Coordinator.

OFWIM 2010 Conference Abstract

Presentation

Thu, Oct 21, 2010 9:45 AM

Title	Presenter	Organization
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Species of Greatest Conservation Need Mashups

Jean Freeney and Andrea
Ostroff

U.S. Geological Survey National Biological
Information Infrastructure

Abstract

The NBII has built a framework to compile the Species of Greatest Conservation Need from the State Wildlife Action Plans submitted by each state and territory in the United States. Mashup technology has been deployed to deliver information related to each species from an array of existing data sources. The framework established has enabled SGCN lists to be compared between states, taxa and species numbers to be summarized, and new tools to be built that could potentially benefit multiple agencies. The NBII is developing a plan to expand the capabilities of the system by capturing the priority habitats identified in the SWAPs. These next steps would enable species and habitat linkages to be built into the framework to aid in conservation planning. The NBII wishes to explore with OFWIM participants these ideas including incorporating new datasources, identifying data and information needs, and further identifying opportunities that could lead to valuable regional and national coordination of conservation activities and/or monitoring. Participants are encouraged to contribute ideas for additional functionality and data

Biography

OFWIM 2010 Conference Abstract

Presentation

Thu, Oct 21, 2010 10:40 AM

Title Presenter Organization

AFWA and the OFWIM: Looking Forward

Kirk Keller

Missouri Department of Conservation

Abstract

In 2002, OFWIM coordinated with AFWA, FWS, USGS and NBII to host a National Fish and Wildlife Data Summit. This summit was attended by representatives from 31 fish and wildlife agencies, 13 NGOs and 4 Federal agencies associated with conservation of forest, fish, and wildlife. Findings and recommendations in this Summit were provided in an 18 page report distributed to all participating agencies and organizations. The primary finding of the report was that while the importance of solid information sharing programs among state and federal natural resource agencies continues to grow, individual agencies ability to use technology for effective information sharing has lagged.

The report laid out an action plan with components meant to address challenges in the areas of: 1)Leadership and funding, 2)Partnerships and communication, 3)Agency culture, 4)Agency business processes, 5)Technical infrastructure and content management, 6)people and skills

Eight years later, it seems prudent to assess what has changed since that Summit.

This presentation will outline main points of the 2002 Summit report and the status of recommendations. It will also outline what organizational hurdles exist which have

Biography

Kirk Keller is the application Development Supervisor for the Missouri Department of Conservation. He has been with the agency for 15 years.

POSTER ABSTRACTS

Title Presenter Organization

Automation of Legacy Permit Systems

James E. Husband

Virginia Department of Game and Inland Fisheries

Abstract

The Virginia Department of Game and Inland Fisheries has employed a permit system that issues permits, tracks compliance, and collects species data for the past fourteen years. Information collected and reported through this program is combined with agency biologists' data forming the primary database for all species management and environmental impact decisions. This database serves multiple Virginia Agencies, the FWS and NGOs.

This poster discusses the need for automation of our legacy permit system to provide highly accurate data for existing fish and wildlife databases. Over the past four years scientific permit requests, environmental impact reviews, and species information demands have increased in an environment of decreasing manpower and budget cuts. We will discuss several scenarios that have forced the Department to rethink and re-engineer the entire permit process, from permit issuance through data collection. Additionally, several field collection violations have suggested the need to step up strategies to enforce compliance with existing permit restrictions and ensure the protection of the resource.

Additionally, examples of how VDGIF's permit system has been evolving using new technology to address data accuracy, decrease man hours required, enforce permit

Biography

James Husband is the Fish and Wildlife Information Section Manager at VA Department of Game & Inland Fisheries in Richmond, VA. He has over 20 years of experience with information technology, education, criminal justice, and government agencies and institutions. Currently, he directs a multidisciplinary team of biologists, GIS, database, and application programmers within the Wildlife Diversity Division of the Department. Mr. Husband has held previous management positions in the private sector in several IT firms and with higher education, working with distance learning technologies and strategies. Additionally, Mr. Husband has worked as a college professor and had a distinguished career in law enforcement and criminal justice planning.

Title Presenter Organization

Development of Handheld Applications for Biodiversity Information: a Two-Way Need for Interoperability

Annie Simpson

U.S. Geological Survey National Biological
Information Infrastructure

Abstract

The future of Web access is through handheld devices. In 2008, the Pew Internet and American Life Project estimated that by 2020, people will primarily connect to the Internet using mobile devices. Today, there are estimates that 30% of all Internet searches are performed via handheld devices.

The National Biological Information Infrastructure has formed a working group to facilitate collaboration among developers of handheld apps for managing biodiversity information. We foresee two main areas of interest:

- 1) developing and improving data upload functionality for field observations and seamless transmission to Web-based systems;
- 2) improving access to and readability of existing Web information via handhelds utilizing many different operating systems (iPod, Blackberry, Droid, and others).

This presentation will describe a few of the ongoing efforts of the NBII and our partners, and how the developing applications can make a difference to on the ground data managers and volunteer citizen scientists.

Biography

Annie is the invasive species information manager at the National Biological Information Infrastructure (NBII), based at the headquarters of the US Geological Survey <http://invasivespecies.nbii.gov> in the USGS Biological Informatics Office. Annie led a Federal Inter-Agency working group that created the National Framework Website for Invasive Species Early Detection, Rapid Assessment, and Rapid Response <http://edrr.nbii.gov>. She is also chair of the Global Invasive Species Information Network and the US lead for the Invasives Information Network (I3N) of the Inter-American Biodiversity Information Network

Title	Presenter	Organization
Providing Access to Plant Specimen Data Through The US Virtual Herbarium (USVH)	Elizabeth Sellers, Jennifer Carlino, and Jean Freeney	U.S. Geological Survey National Biological Information Infrastructure

Abstract

The National Biological Information Infrastructure (NBII) is a collaborative, partnership-based program hosted within the US Geological Survey, established to provide increased access to data and information on the nation's biological resources. The NBII links high-quality biological databases, information products, and analytical tools maintained by NBII partners and other contributors. NBII partners and collaborators also work on new standards, tools, and technologies that make it easier to find, integrate, and apply biological information. The NBII has engaged with the US Virtual Herbarium (USVH) project, a collaborative initiative working to make plant specimen information housed in US museums digitally accessible. The grand mission of the USVH is to better inform scientific research in areas of national and global significance, promote adoption of internationally recognized biological data management standards, and encourage interest in plant diversity. With current estimates of roughly 70 million specimens housed in US herbaria, this task can only be effectively undertaken through regional collaboration and national coordination within the collections community. This poster will describe the USVH project, its partnerships and the USGS NBII involvement, particularly as the US Node to the Global Biodiversity Information Facility (GBIF); an example application of GBIF's Integrated Publishing Toolkit; and an overview of the Integrated Taxonomic Information System.

Biography

Elizabeth Sellers (B.Sc. Botany & Geomorphology), completed her undergraduate studies with a double-major in Tropical Botany and Geomorphology at James Cook University of North Queensland, Australia in 1995 and studied the ecophysiology of the invasive 'woody weed' *Zizyphus mauritiana* Lamk. for Honours in 1996. She joined the National Biological Information Infrastructure (NBII) in 2003 after working as a Volunteer for Science for the USGS Invasive Species Science Program. Ms. Sellers is the Manager of the NBII Botany Project and a USVH Steering Committee member. She spends her spare time photographing nature, volunteering as a licensed MAPS bird-bander and trainer; and leads a Bee Inventory at Banshee Reeks Nature Preserve, VA.

**OFWIM 2010
BUSINESS
MEETING**

***Business Meeting
October 20, 2010
Cadiz, Kentucky***

Each year, the Organization of Fish and Wildlife Information Managers conducts its business at the annual Conference. Members should join us for lunch in the Dining Room followed by the Business Meeting. Potential members are also welcome to attend for lunch and to learn more about this dynamic organization that serves the unique intersection of natural resources management and information technology.



**OFWIM 2010 Annual Business Meeting
Cadiz, KY
October 20, 2010**

Agenda

- I. Call to Order**
- II. Determination of Quorum** (10% of registered members)
- III. Old Business**
 - a. President's message, Jennifer Carlino
 - b. Approval of 2009 Business Meeting Minutes, All
 - c. Officer reports
 - i. 2010 President's report, Jennifer Carlino
 - ii. 2010 Secretary's report, Lisa Zolly
 - iii. 2010 Treasurer's report, Kristin Rogers
 - iv. 2010 Member At Large report, Yan Hong
 - d. Committee Reports
 - i. Membership and Outreach Committee, Julie Prior-Magee
 - ii. Elections, Nominations, and Awards Committee, Beth Stys
 - iii. Communications Committee, Viv Hutchison
 - iv. Conference Planning Committee, Mark Brunner
 - v. Training and Education Committee, Don Schrupp
 - vi. Data Standards and Technology Trends, Scott Anderson
 - vii. Vision and Goals Committee (ad-hoc), Mark Brunner
- IV. Elections**
 - a. Slate of Candidates
 - i. President Elect: Don Katnik
 - ii. Treasurer: Yan Hong, Julie Prior-Magee
 - iii. Secretary: Elizabeth Martin
 - iv. Member-At-Large: Dean Jue, Danny Lewis
 - b. On-site Voting
 - c. Election Results and Installation of New Officers

V. New Business

- a. New President's Message, Keith Wethington
- b. Upcoming Conference Dates and Locations
 - i. 2011: St. Louis, Missouri
 - ii. 2012: Texas

VI. Awards (presented by Beth Stys)

- a. Competitive awards:
 - i. Student Scholarship Awards (were presented in the plenary session)
 - ii. Best Poster Award, 2010 Conference
 - iii. Best Presentation Award, 2010 Conference (will be presented the following day)
- b. Service Awards:
 - i. President: Jennifer Carlino
 - ii. Treasurer: Kristin Rogers
 - iii. Secretary: Lisa Zolly
 - iv. Member-At-Large: Yan Hong

VII. Comments and Discussion

VIII. Adjourn

Officer Reports

2010 President Report Jennifer Carlino

With sincere appreciation to all of our members, OFWIM continues to strive forward and achieve success in 2010. Your contributions are essential and I want to acknowledge everyone's efforts. Highlights from this year are included in this report.

OFWIM had an exciting opportunity this year to follow up with the Association of Fish and Wildlife Agencies (AFWA). Kirk Keller from the Missouri Department of Conservation and representing OFWIM conducted the briefing at the AFWA Science and Research Committee meeting in March 2010. The presentation outlined OFWIM's connection with State agencies and offered some ways to collaborate. As the Executive Committee continues the discussion with AFWA, we extend a heartfelt thanks to Kirk for representing OFWIM at this important meeting.

The Executive Committee has done a stellar job this year. Working together to develop the message and help Kirk with his presentation to AFWA shows the commitment of this team. Mark Brunner coordinated the details of the 2010 conference along with scouting venues for the 2011 conference in Missouri. Keith Wethington stepped into the role of President Elect in September and did an excellent job of transitioning and taking on the final details of the conference in the final weeks of preparation. We wish Mark the best in his position with Stephens College. Keith will take on the role of 2011 OFWIM President as well. Secretary Lisa Zolly recorded minutes for each teleconference call and published them quickly as well as continuing her role as the OFWIM webmaster. Treasurer Kristin Rogers provided detailed information about our finances and membership. Member At Large Yan Hong developed a draft OFWIM conference sponsorship document to help guide potential sponsors for future meetings. Past President Robin Carlson provided crucial guidance and support to the committee throughout the year as well as hosted the quarterly committee chair teleconferences that facilitate activities within the organization.

The Data Standards and Technology Trends Committee, led by Scott Anderson and Lisa Zolly, along with the Training and Education Committee, with the leadership of Don Schrupp, provided webinar training sessions, contributed key articles to the newsletter, and launched a blog on biological data standards to help members identify potential standards of interest to their organization. For more information, please see <http://ofwimds.blogspot.com>. All these efforts were highlighted through the newsletter published by the Communications Committee.

Another exciting accomplishment this year was updating our static Membership Map on the OFWIM website to better reflect our current member numbers and locations and take advantage of new technology. Thanks to the hard work of Don Schrupp and Kristin Rogers, the map can now be quickly updated with each pushpin representing the location of a current OFWIM member and the number on the pin corresponding to the number of OFWIM members at that particular location.

The Elections, Nominations, and Awards Committee, led by Beth Stys, and the Membership and Outreach Committee, led by Julie Prior-Magee, did an excellent job reaching out to students and potential members this year. Building on last year's success, we had a slate of qualified candidates apply for the student scholarship and three will present at this year's conference during a special student session. Additionally, our individual memberships increased this year and even though our organizational memberships decreased, overall this represents a positive trend for OFWIM.

Finally, the Conference Planning Committee, led by Mark Brunner and vice chaired by Keith Wethington, did an excellent job of finding great speakers, developing an engaging program, and planning a very worthwhile field trip to local areas. Special thanks go to Keith for stepping up to help bring the Conference to reality in the last few weeks of preparation! Also, based on good feedback from the Seattle conference, the Committee offered the Remote Conference Attendance option again this year. This makes use of WebEx technology to provide offsite participants who cannot travel with the ability to participate in the presentations in real time.

Thanks to all of the active committees this year!

Officer Reports

2010 Secretary Report

Lisa Zolly

- I. Recorded the minutes of monthly Executive Committee (ExComm) meetings
 - A. Distributed minutes to ExComm members
 - B. Posted an archival copy in the OFWIM portal community.

 - II. Co-maintainer, with the Treasurer, of the OFWIM membership database
 - A. Entered new members and updated existing member information
 - B. Recorded membership renewals and expiration dates
 - C. Ran reports to create updated email distribution lists and facilitate update to membership map
 - D. Supplied member information to President for welcome and renewal letters
 - E. Maintained hard-copies of all 2010 membership renewals processed by the Treasurer

 - III. Maintained OFWIM portal community in the My.nbii.gov portal
 - A. Facilitated training of OFWIM members on the portal
 - B. Created portal projects for OFWIM committees and special events
 - C. Managed other content and updates to the portal community
 - D. Managed membership access to the portal community

 - IV. Managed the OFWIM public Web site
 - A. Conducted a major code and content clean-up of the public site
 - B. Posted new and revised content
 1. Conference information
 2. 2010 Committee goals
 3. Newsletters
 4. Bylaws revisions
 5. Job postings
 6. Other material as requested

 - V. Vice Chair (Ex Officio) of the Communications Committee
 - A. Conveyed requests to Communications Committee Chair regarding
 1. Newsletter content
 2. Notices to members via the email distribution list
 - B. Maintained current member email distribution list
 - C. Sent out all 2010 communications to the member email distribution list

 - VI. Business Meeting Minutes
 - A. Submitted 2009 Business Meeting Minutes; signed by Past President Robin Carlson that are now part of the official OFWIM Record.
 - B. Will compile 2010 Business Meeting Minutes
-

Officer Reports

2010 Treasurer Report Kristin Rogers

See Supplemental Insert

Officer Reports

2010 Member At Large Report Yan Hong

For OFWIM Year October 2009 – September 2010

Activities:

Participated in a number of Executive Committee Conference Calls

Dates:

November 10, 2009

May 11, 2010

June 08, 2010

July 13, 2010

August 10, 2010

September 14, 2010

September 28, 2010

Prepared OFWIM Sponsorship Policy at the request of the OFWIM President (Jennifer Carlino)

Served (as per the Bylaws) as Vice Chair of the Data Standards Committee (Scott Anderson and Lisa Zolly co-chaired for the Data Standards Committee).

Committee Reports

Committees are comprised of OFWIM members, generally including a Vice-Chair, and a Chair. The Chair is usually self-appointed or appointed by the President. The Vice-Chair is the designated Executive Committee member, as outlined in the bylaws, or is appointed by the President or is assigned as appropriate within the committee. Each committee has specific charges and annual goals. In the Business Meeting, each committee provides information on activities and accomplishments throughout the year. The 2010 written reports are included as part of the record.

2010 Membership and Outreach Committee

Chair: Julie Prior-Magee

Vice-Chair: Kristin Rogers

Members: Jen Carlino, Robin Carlson, Yan Hong, Don Katnik, Jill Maxwell, Keith Wethington

Goal 1: Encourage membership and potential new members to attend the annual meeting.

Throughout the year the OFWIM Regional Contacts distributed meeting announcements to contacts within their regions in order to encourage meeting attendance.

Goal 2: Award travel grants to assist current and retired professionals attending the 2010 OFWIM Conference.

Accomplishment: Funding for up to five travel grants was available this year. Four travel grant applications were submitted to the committee; all of the applicants were qualified and were awarded grants. The recipients came from a wide range of states. All are presenting a paper or poster at the conference. See the list of grant recipients below.

Name	State	Presentation
Katnik, Don	Maine	Oral
Lewis, Danny	Texas	Oral
Marsh, Cris	Wisconsin	Poster
Rogers, Kristin	Florida	Oral

Goal 3: Establish and Maintain Active OFWIM Regional Contacts

The following OFWIM members volunteered to serve as regional contacts for their respective regions: Julie Prior-Magee (West Region), Yan Hong (Midwest Region), Keith Wethington (Southeast Region), and Don Katnik (Northeast Region). These folks all worked hard to update their regional contacts distribution lists. These lists were used to send out meeting announcements, call for papers, and professional travel grant information in order to boost attendance at this year's conference and interest in the organization in general.

Goal 4: Encourage non-members attending the annual meeting to join OFWIM.

A Benefits of Membership information page was included in 2009 and 2010 annual meeting packages to educate attendees on the benefits of membership.

Goal 5: Maintain individual membership renewals from previous year to current year.

The OFWIM Secretary and Treasurer established a reminder schedule for membership renewal. The President sent reminder emails to the membership at the beginning of the year to encourage members to renew their memberships for the current year.

Goal 6: Support members willing to do outreach at local/regional/national meetings on behalf of OFWIM.

Thanks to Kirk Keller for his outreach efforts at the 2010 North American Wildlife and Natural Resources Conference, held in Milwaukee, WI in March. Kirk helped educate attendees about OFWIM and also about the 2010 Annual Meeting at Lake Barkley State Resort Park, in Cadiz, KY.

The Spring 2010 issue of the OFWIM Newsletter contained a message from the Committee asking the general membership to help us spread the word about the annual meeting and also to help the Committee in sharing the benefits of OFWIM membership with non-members. This message also reminded members that the Committee could help them with outreach materials if they were attending meetings.

Goal 7: Conduct a focused membership drive every 3-years to increase Organizational Memberships and pick up new potential members that may have joined organizations within the last 3-years.

The Committee will draft a membership outreach letter in October 2010 to submit to the President for review and distribution to increase membership in 2011.

Memberships for 2010

Individual memberships were higher this year than the 6-yr average and Organizational memberships were slightly lower this year than the 6-yr average.

Year	6-yr avg.	2010	2009	2008	2007	2006	2005
<i># of Individual Memberships</i>	21	31	21	21	17	12	24
<i># of Organizational Memberships</i>	13	10	14	15	16	13	11

Thanks go to Lisa Zolly and Kristin Rogers for maintaining the OFWIM membership database.

2010 Elections, Nominations and Awards Committee

Chair: Beth Stys

Vice-Chair: Jennifer Carlino

Members: Robin Carlson, Andrea Ostroff, Viv Hutchison

The Elections, Nominations, and Awards Committee is responsible for developing and implementing various awards and recognition programs for OFWIM, and for developing a slate of candidates for the annual elections. Included in this work is implementation of the student scholarship application, in which university students studying in wildlife biology fields can attend an OFWIM conference to gain experience in the professional world.

Accomplishments:

Student Scholarship: The ENA Committee continued to develop a comprehensive list of contacts for distribution of the student scholarship announcement. An initial mail-out (email) was sent in May, with reminders sent out in June and July. We received three applications. The ENA Committee reviewed all 3 applications and determined that they all met the criteria. Each applicant was offered a scholarship in the amount of \$600 to help offset the cost of conference related travel expenses. The Scholarship funds will be used to cover travel related expenses in association with their attendance at the 2010 OFWIM annual conference. Scholarship funds will be disbursed as reimbursement. Conference registration fees were waived for all student scholarship winners.

This year's recipients were:

- 1) Eric Merriam, West Virginia University
- 2) Sunarto, Virginia Tech
- 3) Naveen Mahato, Texas State University

We will have a student scholarship award session at the 2010 OFWIM Annual Conference, the second year in a row that we have been able to provide scholarships to multiple students and have a dedicated student session. All 3 scholarship recipients will be giving a presentation during the conference (as part of the requirement for receiving the award).

New Officers: The committee formed a slate of nominees for the 4 positions open on the Executive Committee for 2011; including Member-at-Large, President Elect, Treasurer, and Secretary). On-line voting was available prior to the meeting (at least 30 days prior to the meeting-in accordance with the by-laws). Candidate biographies were posted on the web site on the on-line voting page. Paper ballots were available at the Business meeting.

Conference Awards: The ENA Committee decided not to have a “Web Based Technical Application” Award this year. This decision was based on the low response rate to this award category over the past several years.

Best Poster and Best Presentation Awards: The ENA Committee arranged for volunteers to judge presentations and posters during the conference. Score sheets were prepared and distributed to the volunteers. All score sheets were collected and tallied. The plaque for the best poster was prepared on-site and awarded during the meeting.

Plaques: Service Awards plaques were arranged and presented by the Committee.

2010 Communications Committee

Chair: Vivian Hutchison

Vice-Chair: Lisa Zolly

The Communications Committee is responsible for creating newsletters (3-4 per year) for distribution to the OFWIM community. This year, 4 newsletters were produced. Each newsletter contained pertinent information for the OFWIM membership. Contributions were made from the Committee Chairs, the Executive Committee, and the OFWIM community.

January: The Post-Conference issue covered the 2009 meeting in Seattle, WA.

April: This issue included article from the Technology Trends Committee, announcements on webinars, a new OFWIM membership map, and a report from the Membership and Outreach Committee.

July: The July newsletter covered some of the upcoming conference details for planning purposes, call for papers, travel grants and student scholarship opportunities. Additionally, an article about the pros and cons of the digital pen was published.

September: The Pre-Conference issue focused largely on the Kentucky conference. Additionally, an article from the Technology Trends Committee was included.

In addition to newsletters, the Communications Committee is responsible for sending out periodic email to the membership, maintaining the membership database, and helping to coordinate special events such as webinars and use of the portal.

Thanks to Lisa Zolly and Robin Carlson for their work this year with the Communications Committee.

2010 Conference Planning Committee

Chair: Mark Brunner
Vice-chair: Keith Wethington
Members: Jennifer Carlino, Jean Freeney, Yan Hong, Julie Prior-Magee

The main responsibility of the OFWIM President-Elect is the planning of the annual conference so this report serves as both the President-Elect Officer Report and the Conference Planning Committee Report.

The Conference Planning Committee has met monthly by conference call on the Thursday following the Tuesday Executive Committee meeting. The planning committee has consisted of Keith Wethington, Yan Hong, Julie Prior-Magee, Jean Freeney, Jen Carlino, and Mark Brunner as chair.

The committee selected the conference theme of “Partnerships and Collaboration in Public Land Management” to highlight ways in which we can all work together to make things happen. The Conference site at Lake Barkley State Resort Park in Cadiz, KY, fit well into that theme being situated in the Land Between the Lakes National Recreation Area that is managed by the US Forest Service with assistance from other state and federal agencies. Several suggested subtopics were developed and included in the call for papers which went out in June. The deadline for abstract submissions was timed so that a draft agenda could be developed and published at least 2 weeks before the early registration period ended. This would provide information that people might help in justifying attendance.

Keith Wethington coordinated numerous site details making sure the facility had everything needed for the conference. Having an in-state person as site coordinator made the rest of the planning easy. Keith also coordinated speakers for the opening welcome, opening plenary presentation, and our evening banquet.

The committee weighed several options for the banquet including a restaurant on the lake or travelling to Murray State University but decided the facilities at the resort would be the best venue considering cost and transportation issues.

The Field Trip was also coordinated by Keith and covered a variety of places in the Land Between the Lakes area including a boat trip to Duck Island, Clark's River National Wildlife Refuge, Golden Pond Visitor's Center, and an elk and bison prairie.

The committee addressed a number of logistical items such as compiling and printing conference materials, finalizing menus for the Hackers Ball, business meeting, and banquet, and making sure the room set-up, sound system, computer/projector, internet connections, and sundries such as power cords and tape were all taken care of.

2010 Training and Education Committee

Chair: Don Schrupp

Vice-Chair: Robin Carlson

Members: Mark Brunner, Aliya Ercelawn, Donald Katnik, Keith Wethington, Sabra Schwartz, Kristin Rogers, Lisa Zolly

This year the Training and Education Committee (TEC) experienced a shift in activities from last year, most notably with regards to webinar endeavors. One 'internal' webinar was offered to the OFWIM membership, while an OFWIM Community/NBII Portal discussion thread was added to announce 'external' webinars of potential interest to the membership. Two of these external webinars were also mentioned in OFWIM Newsletter articles. An attempt to have the OFWIM membership suggest new webinar topics went unanswered. TEC members did sit in on several USGS/NBII conference calls of the Invasive Species Working Group. We do thank Lisa Zolly and the NBII Portal folks for availing us of the technologies to host the internal, WebEx-based webinar and the Training and Education Committee Project of the OFWIM Community. Additionally, we thank Sabra Schwartz for providing the connectivity for our (nearly monthly) conference calls, and Kristin Rogers for being a co-presenter of our one internally developed webinar. A number of other internal webinars were discussed, but did not materialize.

Accomplishments

Conference Calls: January, February, March, April, June, July, August, (September)

Newsletter Articles: Request for Topics – for OFWIM TEC Webinars
Announcement of 'External Webinars' TEC Discussion Thread
Announcements for Two 'External' Webinars – Open to OFWIM
"Estimation of Population Change from Survey Data"
May 3-7, 2010
"Modeling Patterns and Dynamics in Species Occurrence"
August 23 – 27, 2010

Webinars:

Internal:

“Evolution of the OFWIM Membership Map KML”

[Schrupp / Rogers]

“Demonstration of Feature-Level Metadata” [Katnik]

{ partnered with Data Standards/Tech Trends }

External:

Seven were 'Announced'; via OFWIM Community thread

Follow-up Articles on the 2 USGS Webinars [Geissler et

al] were offered for the OFWIM Newsletter, but not

printed, as yet

2010 Data Standards and Technology Trends Committee

Co-Chair: Scott Anderson

Co-Chair: Lisa Zolly

Vice-Chair: Yan Hong

Members: Megan Hines, Mike Banach, Julie Fleming, Michael Barbour, Jean Freaney, Bill Herrington, Don Katnik, Danny Lewis, Elizabeth Martin, Andrea Ostroff, Don Schrupp

This year, the Data Standards/Technology Trends Committee has several accomplishments to report. This year we've continued our effort to update the OFWIM community on trends in technology, producing 3 articles for the newsletter and co-hosting a webinar with the Education committee. We have also reviewed our first effort at a website to post data standards, and taken an entirely new approach by creating a "blog" site (<http://ofwimds.blogspot.com>). This site will allow posting of data standards, submission of candidate standards via email, searchable descriptions, and an easy to navigate organization of standards via tags. Please check out the **website** (<http://ofwimds.blogspot.com>), and send any comments to ofwimds@gmail.com.

Accomplishments

Newsletter Articles

- ArcGIS 10: Contemplation of Deprecation – Scott Anderson
- A New Tool for Electronic Data Capture: Write Data Directly to a Spreadsheet Using a Pen! – Bruce Schmidt
- Biological Data Standards Website is in Beta! – Megan Hines

Webinar (partnering with Education Committee)

- Demonstration of Feature-Level Metadata – Don Katnik

Biological Data Standards blog in beta! (<http://ofwimds.blogspot.com>)

2010 Vision and Goals Committee

Chair: Mark Brunner

Vice-Chair: Vacant

Members: Robin Carlson, Daren Carlson, Becky Gwynn, Lila Borge-Wills, Dean Jue, and Yan Hong

The Vision and Goals committee consists of Becky Gwynn, Bruce Schmidt, Daren Carlson, Dean Jue, Robin Carlson, and Mark Brunner as chair. The committee met just two times this year mainly due to the chair spending too much time on the conference planning committee and not getting back to Vision and Goals. The two times we met were spent brainstorming ideas to put together as goals to meet the vision that was agreed upon at the 2009 conference:

Our Vision: To be a bridge between natural resource and technical disciplines to promote partnering, collaboration, sharing of ideas, and best management practices in order to effectively apply technology to the information and data needs of natural resource management.

Some of the brainstorming discussion centered on why we joined OFWIM and a number of ideas on how OFWIM could possibly meet our original expectations. The following are ideas that were generated that can serve as a starting point for further discussion and the formation of actual goals.

- How to get OFWIM to help solve some of the common issues we all face.
- What is the best way to share ideas between agencies?
- Schedule regular WebEx type conference calls/demonstrations on technology to share. Having it regularly scheduled makes attendance better able to be planned. Open it up to others outside of membership.
- Post Twitter updates? Regular status of what is going on. Other social media?
- Provide a clearinghouse of who is involved in what projects. Source for collaboration.
- Each member state provides BMP for info technology or land management practices. Document clearinghouse. What is specific and unique about Fish and Wildlife information?

Hopefully these discussions can be continued and fleshed out more in the future. Special thanks to Dean Jue for the help in coming up with these discussion points.

2010 OFWIM Elections

Officer Elections

The President-Elect, Treasurer, Secretary, and Member At Large officer positions are open this year, and you will find photos and biographies of the candidates for those positions on the following pages.

How to Vote

All OFWIM members in good standing are eligible to vote for the officer candidates.

Voting was available online between September 17, 2010 and October 15, 2010.

If you have not yet voted, you may vote by paper ballot during the Annual Business Meeting on Wednesday, October 20. Paper ballots will be available at the Business Meeting.

Candidate for President-Elect

Don Katnik

Maine Department of Inland Fisheries and Wildlife



I started my career as a field technician on wildlife research projects ranging from loggerhead shrikes in Minnesota, river otters in Montana, to ring-necked pheasants in Missouri. I later worked for the U.S. Fish & Wildlife Service in Alaska and U.S. Forest Service in Oregon. I have degrees in wildlife ecology, wildlife management, and natural resources. Since 2005, I have been leader of the GIS group at Maine Dept. of Inland Fisheries and Wildlife. In my view, many natural resource agencies have been slow to embrace technology and are now struggling to leverage tools like GIS. We also have been reluctant to make our data public. The wildlife profession is short on people with technological skills. Most people are attracted to the profession because they like their field work. I see OFWIM as an opportunity to expand that technological capability by supporting the people who do that work and by promoting the values of technology in the management of fish and wildlife resources. I am a member of the Data Standards and Technology Trends and Training & Education Committees. My “hobbies” include endless home improvement projects and spoiling my two dogs. This spring, my wife and I were selected as “Judges’ Best Dance” for our foxtrot to “Put On a Happy Face” in *Dancing Like The Stars*. I also enjoy writing fiction and recently published a short story in the dog magazine *The Bark*.

Candidates for Treasurer

Yan Hong

Missouri Department of Conservation



Yan Hong is the Programmer/Database Manager with the Missouri Department of Conservation. She has Master degrees in Civil Engineering and Computer Science, both from the University of Missouri-Columbia. Since 2005, she has been working on planning, designing and managing the database for Endangered Pallid Sturgeon Missouri River Recovery Program, Missouri Department of Conservation Sturgeon Monitoring and Evaluation Project, and Missouri Commercial Fishing. She became a member of OFWIM in 2006, and participated each annual meeting since then. Now she is the member of Data Standards and Technology Trends Committee, Conference Planning Committee and Membership and Outreach Committee. She has a great experience with OFWIM, and she likes to have a chance to contribute more.

Julie Prior-Magee

US Geological Survey, National Biological Information Infrastructure



Julie works for the USGS National Biological Information Infrastructure (NBII) and Gap Analysis (GAP) Programs. In her role as an NBII Node Manager, she manages the Southwest Information Node (AZ, CO, NV, NM, and UT), the Central Southwest Gulf Coast Information Node (AR, OK LA, TX, and the Gulf of Mexico, including the coastal areas of MS, AL, and FL), the Great Basin Information Project, and the Renewable Energy Project. She served as Regional Coordinator for the Southwest Regional Gap Analysis Project. Julie first started attending OFWIM annual meetings in 2002 and in recent years has been active in the Conference Planning Committee and the Membership and Outreach Committee which she currently chairs. Julie holds a B.A. in Political Science from Colorado State University, a Master of Public Administration from New Mexico State University, and a Master of Wildlife Science from NMSU. Julie has served as Treasurer of the local Audubon Society chapter in Las Cruces, New Mexico and was the bookkeeper for Naturescapes (a landscape design and construction company).

Candidate for Secretary

Elizabeth Martín

US Geological Survey, National Biological Information Infrastructure



Elizabeth Martín works as a node manager for the National Biological Information Infrastructure (NBII) program of the U.S. Geological Survey (USGS). She currently manages the NBII Bird Conservation Node, which focuses on providing increased access to data and information supporting the conservation of North American birds. She has extensive experience coordinating biodiversity information projects, programs and networks, including development of partnerships and collaborative activities with diverse stakeholders to achieve common goals. Prior to working for USGS, she worked at Information International Associates, the U.S. Department of State, the National Science Foundation, and the South Florida Water Management District. Elizabeth holds B.S. and M.S. degrees in Biology from the University of Puerto Rico and The Florida State University respectively. She is currently enrolled as a Ph.D. student in the Wildlife Ecology program at the University of Florida. She has participated in the OFWIM Data Standards and Technology Trends Committee for the past two years and has presented on NBII Bird Conservation Node activities at previous OFWIM's annual conferences.

Candidates for Member-At-Large

Danny Lewis

Texas Parks and Wildlife Department



Danny works as a Program Specialist for the Inland Fisheries Division of the Texas Parks and Wildlife. He has a BS in Computer Science from the University of Texas at Tyler. He has spent over 17 years creating computer applications and providing computer support for the division staff, currently using .NET 2.0 and SQL Server to provide intranet web based access to the division's many databases. Danny has been married for 22 years, has two sons, ages 16 and 8, and a daughter, who has him wrapped around her finger at age 3. When he's not shuffling kids to events, he enjoys sports, jogging, 42, listening to 80's music and chocolate chip cookies. Danny currently serves on the Data Standards and Technology Trends Committee and is excited about the opportunity for Texas to host the Conference in 2012.

Dean Jue

Florida Resources and Environmental Center (FREAC)



Dean Jue received his undergraduate degree in zoology from the University of California at Berkeley. His graduate degrees in ecology and computer science are from University of California at Davis and California State University at Sacramento, respectively. He currently works for the Florida Resources and Environmental Center (FREAC) at the Florida State University (FSU) in Tallahassee. He has applied geographic information system (GIS) and/or web mapping technology to a variety of disciplines, including business, criminology, government, public health, and public libraries. Since the Florida Natural Areas Inventory (FNAI), the natural heritage program for the state of Florida, became part of FREAC in 2001, Dean has worked with FNAI on several projects. He is one of several FREAC developers helping to implement iMapInvasives (www.imapinvasives.org), a nationwide web-based application to track and manage exotic invasive species. Dean has received two Florida state wildlife grants to inventory for rare Florida butterflies and to work with land management agencies in developing land management guidelines for those invertebrate species. Dean has attended several national OFWIM conferences. Most recently, he assisted in revising the OFWIM mission and vision statement.

NOTES

