

ASSOCIATION OF NATURAL RESOURCES PROFESSIONALS



AWARD RECIPIENTS 2019

The ANREP Awards Program fosters high standards within the membership, recognize significant achievement, and expand the use of high quality, innovative materials and programs by honoring the outstanding members and partners who developed them.

OUTSTANDING EDUCATIONAL MATERIALS AWARDS

BOOK OR COMPREHENSIVE PROGRAM CURRICULUM

GOLD AWARD

Manure Management Planning for Youth Animal Projects

Capri Stiles-Mikesell and Jennifer Fetter from Penn State Extension, Deb Seibert from Manheim Central Ag Education Program, Heather Shaubach, from Cooper Printing and Sallie Gregory from Lancaster County Conservation District

Manure impacts water quality in many ways. In Pennsylvania, everyone who produces manure is required by law to have a written manure management plan. That includes youth who participate in 4-H and FFA programs. Many of these youth are the only members of their family raising animals, so they are unaware and unprepared to meet these compliance requirements. In response, Penn State Extension, with the support of the Department of Environmental Protection (DEP) and contributions of partners, developed a new curriculum guide to address teaching manure management to youth. "Manure Management Planning for Youth Animal Projects" is full of hands-on activities, career explorations, critical thinking questions, and more. It covers the basics of soil science and manure nutrients, how plants use those nutrients, environmentally sensitive areas, farm mapping, and the environmental impacts of manure. The curriculum is now being used to train educators and host youth workshops across the state.

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BOOK OR COMPREHENSIVE PROGRAM CURRICULUM

SILVER AWARD

Silvopasture: Establishment and Management Principles for Minnesota

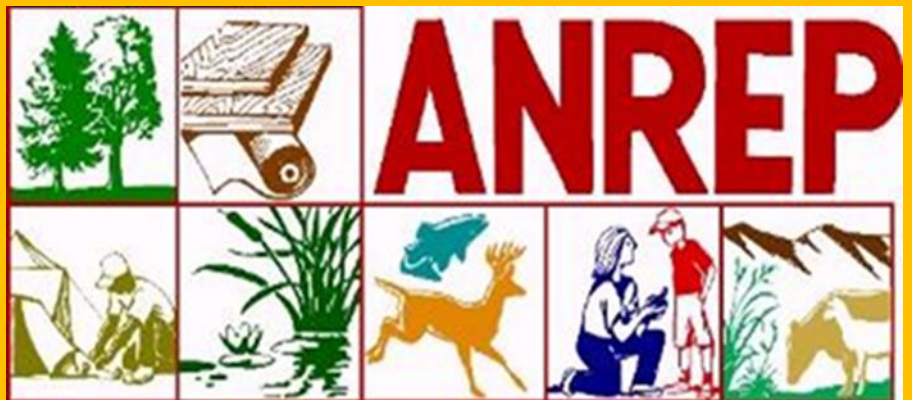
Dean Current, Diomy Zamora, Joe Magner, Gary Wyatt and Mike Reichenbach from University of Minnesota, Dusty Walter, from University of Missouri

Minnesota has more than 650,000 acres of unmanaged farm woodlands being grazed by livestock. Allowing livestock to graze a natural woodland area without active livestock grazing, forage and tree management is detrimental to the forest and produces very limited forage for cattle, which do not gain weight as quickly as they might be in a managed system. Unmanaged woodland grazing can result in soil compaction, erosion, loss of biodiversity, water contamination, tree damage leading to reduced timber and livestock yields. Converting unmanaged grazed woodlands to silvopasture systems can generate ecological and financial benefits. In order to address the issue of unmanaged woodland grazing, the team developed a BMP manual on Silvopasture: Establishment and Management Principles for Minnesota. This BMP manual is now serving as a primary material in silvopastoral education in Minnesota.

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LONG PUBLICATION

Gold Award

City of Tampa Tree Canopy and Urban Forest Analysis

Andrew Koeser, Deb Hilbert, Drew McLean, Michael Andreu, Rob Northrop from the University of Florida and Shawn Landry from the University of South Florida

This report is intended for decision makers within the city government and it also informs the general public about the values and services the trees and forest within the city boundary provides to them. This report is part of a long-term monitoring effort and similar reports were previously produced in 2006 and 2011 by members of this team. The 2016 Tampa Tree Canopy and Urban Forest Analysis describes the state of the urban forest and estimates some of its economic, social, and environmental values. The data collected and summarized in this allow the City to measure its progress, identify confounding issues, and make operational and policy adjustments, as it strives to meet the City's management plan goals.

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LONG PUBLICATION

SILVER AWARD

Ecology and Management of Eastern Oregon Forests: A Comprehensive Manual for Forest Managers

Paul Oester and Stephen Fitzgerald, Oregon State University

Oregon forests east of the Cascade Mountains are highly valued for timber, wildlife, water, forage, and recreation. A history of fire suppression, poor grazing practices and repeated selective economic harvests have resulted in many over-dense forests with major changes in species composition and structure, and loss of ecological resilience and function. Today, many land managers are challenged with forest stands of high risk to wildfire, insects and disease, and drought that may not meet long-term management goals.

In order to address common concerns and questions regarding management of these forest ecosystems, our interdisciplinary team designed and published the original Manual 12 in 2005, (nine chapters and 208 pages). The Manual and workshops offered were received with an overwhelming positive response, and by 2015 had run out of print copies. In 2018 we updated the Manual to incorporate most current best-available science, specifically addressing fire risk and timber harvesting.

Manual 12 can be found at: <https://catalog.extension.oregonstate.edu/manual12/>

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LONG PUBLICATION

BRONZE AWARD

Frequently Asked Questions about Florida's Algal Blooms series

Becca Burton, Betty Staugler, Brittany Scharf, Ed Phlips, Karl Havens, Krista Stump and Lisa Krinsky from the University of Florida

Florida experienced two significant algal bloom events in 2018, a red tide event that lasted nearly 16 months and a blue-green algae bloom that impacted Lake Okeechobee and the coastal estuaries. Florida residents were concerned, confused, and often enraged about the environmental, economic and social impacts of these blooms. Mixed messages from a variety of sources only added to the confusion and this was nowhere more present than on social media. Extension faculty scoured Facebook to identify the most frequently asked questions about Florida's algae blooms. Two separate blog posts were written using up-to-date, science-based information to respond to these questions. Based on the unprecedented response, the blue-green algae blog post was translated into Spanish and an updated, peer-reviewed Electronic Database Information Source (EDIS) document was created. Since their publication the two blog posts have been accessed more than 14,000 times and the EDIS document was downloaded nearly 1,700 times.

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PROMOTIONAL MATERIALS

GOLD AWARD

FLORIDA SEA GRANT AQUACULTURE INFOGRAPHICS SOCIAL MEDIA CAMPAIGN

Cortney Ohs, Erik Lovestrand, Holly Abeels, Josh Patterson, Laura Tiu, Leroy Creswell, Leslie Sturmer, Rebecca Burton, Shelly Krueger and Vincent Encomio from the University of Florida

Aquaculture is the most diverse agribusiness in Florida. Florida Sea Grant has several aquaculture programs, Specialists and Extension Agents who work to support the industry through research and education. However, many in the general public still are unaware of the Florida Sea Grant's role in providing information necessary to help Florida's citizens and visitors better appreciate and understand the industry that provides a wide range of cultured aquatic products for local, regional and national seafood markets, stock enhancement and restoration. In order to address this, a social media campaign was designed and launched in October 2018 during National Seafood Month. Nine separate infographics representing each sector of the industry were created and shared through multiple social media outlets.

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PROMOTIONAL MATERIALS

SILVER AWARD

Why Did the Amphibian Cross the Road? An Introduction to the Amphibian Migrations & Road Crossings Project

JAMES DURYEY, MARIST COLLEGE AND LAURA HEADY, CORNELL UNIVERSITY

This video was created to bring more awareness to our Amphibian Migrations & Road Crossings (AM&RC) Project, and to introduce viewers to the ideas of amphibian decline, forest and vernal pool ecology, habitat fragmentation, and local planning. During annual breeding migrations, amphibian species of conservation concern often need to cross roads on their overland journeys to vernal pools. This frequently results in high mortality. AM&RC Project volunteers are helping to locate amphibian road crossings throughout the ten counties that border the Hudson River Estuary. Due to the expansive geographic focus, volunteers are self-directed and generally self-taught, and program guidance is shared primarily through the internet and email correspondence. Through a collaboration with Marist College, we developed an introductory video to educate a wider audience and recruit more volunteers to participate in the AM&RC Project. The video was posted one year ago and now has over 3,000 views.

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PROMOTIONAL MATERIALS

BRONZE AWARD

Pet Waste Outreach Campaign

Amy Scaroni, Charly McConnell, Ellen Comeau, Guinn Wallover, Katie Altman, and Sarah Rogers from Clemson Extension

Bacteria is the leading cause of water quality impairment in South Carolina, and pet waste is often the culprit. Previous surveys across South Carolina indicate that the majority of residents know that leaving pet waste on the ground impacts water quality, but only a fraction of them pick it up every time. A commonly identified barrier to proper disposal is forgetting to bring a bag on walks. Targeting this audience that picks up waste sometimes, but not every time, our billboards and commercial encourages them to "be prepared, always bring a bag." Seventeen billboards were installed in fall 2018, and are viewed by over 1.5 million people weekly. The commercial was shared on 5 stations around the state and reached over 1.5 million viewers during its 2 month run in fall 2018. These media outreach tools are part of a larger pet waste outreach strategy that is ongoing.

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NEWSLETTERS, SERIES OF ARTICLES

GOLD AWARD

Driptorch Digest

Jennifer Fawcett and Laurel Kays from North Carolina State University

The monthly Driptorch Digest distributes the latest stories, events, job postings, and other relevant information to the Southeastern prescribed fire community. This electronic newsletter reaches practitioners, landowners, agency personnel, fire scientists, Extension personnel, and others. Each issue features the latest updates and events from partners such as Cohesive National Wildland Fire Management Strategy, Southern Fire Exchange, Fire Adapted Communities Learning Network, and Cooperative Extension. The Driptorch Digest not only informs and connects the regional prescribed fire community, but provides a place for the many Extension professionals working on wildland fire issues to serve as a connection between their stakeholders and the larger fire community.

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NEWSLETTERS, SERIES OF ARTICLES

SILVER AWARD

"Florida Gardening Magazine" Feature Story Series

Theresa Badurek, University of Florida

This agent was approached by the editor of Florida Gardening magazine to write several feature stories for 2018. The result was a four-part series about native palms, responsible landscape care and gardening in a changing climate. The objective of these articles was to teach Florida gardeners about native plants, gardening in a changing climate, and managing common plant challenges in sustainable and responsible ways. Frequent questions about these issues at our extension help desk, phone calls, emails, and at presentations served as a needs assessment for these topics. The purpose of this series was to help gardeners improve the health of their plants and local ecosystems. Florida Gardening magazine is available through subscription and in stores throughout the state of Florida. This series of articles was created by FANREP member Theresa Badurek, using Microsoft Word®. Due to the nature of publication in a trade magazine, follow-up evaluation is not possible.

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NEWSLETTERS, SERIES OF ARTICLES

BRONZE AWARD

TRENDING WATER RESOURCE ISSUES NEWSLETTER SERIES

KRISTA STUMP, UNIVERSITY OF FLORIDA

Social media can be a useful tool to spread information. Unfortunately, it can also play a role in spreading misinformation, fear, and biased writing presented as facts. This is especially true for water resource topics like harmful algal blooms, reclaimed water, and innovative stormwater management. The author identified the top water resource topics posted on Facebook in the area and published a series of science-based articles: Harmful Algal Blooms, Reclaimed Water for Irrigation, and Green Infrastructure for Stormwater Management. To maximize the impact, the publications were disseminated using a variety of methods including: a monthly newsletter list using Mailchimp, an online blog, and Facebook. The monthly newsletter was circulated to 63 residents. The blog format resulted in a total of 2,760 unique views, and Facebook reached an additional 1,200 readers.

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SHORT PUBLICATION

GOLD AWARD

Georgia's Jellyball Industry

Bryan Fluech, University of Georgia

Cannonball jellyfish has become one of Georgia's largest fisheries since it was first issued an experimental permit by the state in 1998. Several million pounds of this commonly occurring jellyfish, locally referred to as "jellyballs" can be harvested in a given year. Most of the harvested product is exported to Asian countries where they are a popular food item. Given the newness of the industry and the growing interest in locally harvested seafood, residents and visitors have increasingly inquired about this unique fishery. In response to this demand, Bryan Fluech, the Associate Marine Extension Director with UGA Marine Extension and Georgia Sea Grant developed an Extension bulletin highlighting the attributes of Georgia's jellyfish industry. Since its development in the fall of 2018, hundreds of the attractive and easy to read bulletin has been distributed at seafood and fisheries-related extension programs to help address commonly asked questions and promote the industry.

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SHORT PUBLICATION

SILVER AWARD

Lights, Camera, ACTION! Take a Hollywood approach to deer management

Norm Haley, Auburn University

The Alabama Extension and Buckmasters Ltd. Partnership provides outreach and education to Buckmasters nationwide +210,000 membership. The opportunity for Extension products to reach a national audience, while providing Buckmasters and its members with a consistent source of non-biased, peer-reviewed information is unique and valuable towards increasing the awareness and value of Extension.

A prime example of this outreach was an Extension article that warranted headlining the August 2018 cover of Buckmasters Magazine titled, "Lights, Camera, ACTION! Take a Hollywood approach to deer management". It introduced readers to a suite of techniques for more effective and sustainable deer management. Highlighted was the importance of early successional habitat, using trail cameras to gather data, and taking action based on that data. Extension chose the topic because the 'Hollywood approach' applies not only to Alabama, but to anywhere deer roam while also explaining how multiple management techniques lead to healthier habitat and herds.

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SHORT PUBLICATION

BRONZE AWARD

Fertilizing 123s - A homeowner's guide to residential lawn fertilizing

CAROL WYATT-EVENS AND MARGUERITE BECKFORD, UNIVERSITY OF FLORIDA

Sarasota County is home to more than 417,000 residents and in 2017 ranked the tenth fastest growing region in the nation. Many of the residents have relocated from northern states where lawn maintenance is limited to spring and summer and now have to adjust to Florida where lawns require maintenance throughout the year. Fertilizers are a major component in lawn maintenance, but fertilizer runoff from residential landscapes has been identified as a possible source of nitrogen pollution in our coastal waters resulting in harmful algae blooms. To help combat this problem, a rack card (8.5" x 5.5") was developed to educate homeowners about using fertilizer appropriately. The goal was to illustrate how to interpret a fertilizer label, identify slow-release sources of nitrogen, and calculate correct fertilizer rates. The cards are distributed at UF/IFAS events, homeowner site visits, and available through the Extension office and at Sarasota County Government buildings.

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TV, VIDEO

GOLD AWARD

Two videos to help volunteers led effective invasive species removal events.

Andrea Lorek Strauss, Angela Gupta and Audrey Favorito, University of Minnesota

The videos Planning invasive species events: Working with a natural resources professional (<https://youtu.be/5rB4zjQwbQQ>) and Planning invasive species events: Tips for working with volunteers (<https://youtu.be/CJNsD-1KVnc>) are two great on-demand resources for master volunteers planning to lead invasive species management events. This small but powerful group needed on demand materials to enable them to effectively lead invasive species management events. These videos use best practices of educational videos and research on volunteer motivation and lifecycle to engage both natural resource professionals and volunteer leaders. Examples of intentional video design include how developers addressed common questions and concerns about volunteer and invasive species management best practices in these high quality videos.

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TV, VIDEO

SILVER AWARD

BUCKTHORN & SOYBEAN APHID VIDEO SERIES

ANGELA GUPTA, AUDREY FAVORITO, GARY WYATT AND MIKE REICHENBACH, UNIVERSITY OF MINNESOTA

Ask a natural resource manager in the upper midwest what they worry about the most and you'll likely hear about how buckthorn has taken over. The fact that buckthorn is the winter host for the number one pest of soybeans, the soybean aphid, means farmers are equally worried and motivated to remove it. This set of videos takes viewers through the steps of identifying, prioritizing, planning and managing buckthorn in their woodlands. Featuring a combination of Extension educators and farmers on camera, the videos were shot on the field edge where soybeans meet buckthorn.

The fourth video in the series provides meaningful context to the buckthorn situation. Marcella Windmuller-Campione, UMN assistant professor of silviculture, hosts Bob Koch, UMN entomologist, as they investigate how we arrived at this point with multitudes of invasive species negatively impacting our landscape, and how the species are interconnected in a tangled ecosystem web.

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TV, VIDEO

BRONZE AWARD

Cleaner. Water. Faster. Educational Video Series

Jim Ekins, University of Idaho

Want to learn about how you can protect clean water in our lakes, streams and aquifers? This University of Idaho Extension video series introduces many ways to protect clean water and includes information on riparian buffers, raingardens, wastewater treatment plants, urban farming, urban forests and green spaces, and other ideas. Each video storyboard was peer reviewed by experts in the field, just the same as any other University of Idaho Extension numbered publication. Find all eight videos, packaged in 2018 as an Extension Video Series, here:

<https://www.youtube.com/playlist?list=PL6g6ZYcM47s9HMDtPaxT44P-hx9AhmwRS>.

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PODCAST, RADIO

GOLD AWARD

Woodland Stories

Tiffany Hopkins and Valerie Elder, Oregon State University

This podcast provides awareness and knowledge of Oregon's small woodland owners to the general public. Woodland Stories provide cultural information about this population which aid in preserving the stories of woodland owners, communities, and serve as an archive for future generations. Through creating and sharing this unique content we aim to strengthen bonds with constituents and stakeholders, reach new platforms of media and serve an urban audience. Our anticipated outcome is that the digital stories will increase listeners connection to woodland owners and their awareness of woodland owner stewardship projects.

Link to Woodland Stories homepage:

<http://blogs.oregonstate.edu/woodlandstories/about/>

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PODCAST, RADIO

SILVER AWARD

ONE MINUTE IN MARINE SCIENCE

VICTOR BLANCO, UNIVERSITY OF FLORIDA

One of the most used tools to indirectly reach marine extension audience is through social media. In 2018, more than 135,000 people were reached through 77 Facebook posts addressing the main topics related to the extension programs. However, stats analysis showed that about only 15% were County residents or from the region. To improve and increase the reach of marine extension program outreach actions to county residents, a pilot radio campaign titled “One Minute in Marine Science” was developed comprising four initial radio spots discussing issues as Artificial reefs, Big Bend Seagrass Aquatic Preserve, Healthy Oceans and Scallops. The spots were hosted and played in two local radio stations once a day, at noon, for a period of 2 months. The radio stations stats stated that the spots reached at least a 25% residents audience.

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TELEVISED CONFERENCE - VIDEO CONFERENCE - WEBINAR

GOLD AWARD

LESSONS LEARNED FROM HOSTING LEARN & BURN EVENTS WEBINAR

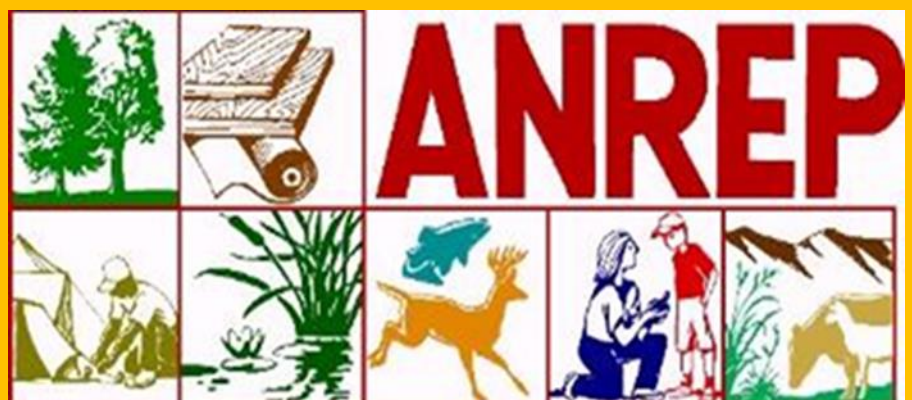
David Godwin, University of Florida & Laurel Kays and Jennifer Fawcett, NC State

A webinar held on November 29, 2018 and co-hosted by Southern Fire Exchange, NC State Extension, the Nature Conservancy, and the University of Florida addressed best practices and lessons learned from hosting “learn and burn” workshops. These workshops give private landowners and others the ability to learn about prescribed fire, both in the classroom and in the field, often including a live burn participants conduct under the supervision of experienced mentors. The logistics of organizing that live burn make these events more challenging to plan than typical outreach events. This webinar featured Jennifer Fawcett of NC State Extension and Bobby Clontz with the Nature Conservancy, both of whom have organized these events. Following the webinar, an informal discussion session was held in which participants could discuss among themselves and with presenters on challenges and successes related to hosting “learn and burn” workshops.

Contact

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WEB SITES, APPS, EDUCATIONAL TECHNOLOGY

GOLD AWARD

Trees of Georgia Online Plant Identification Course

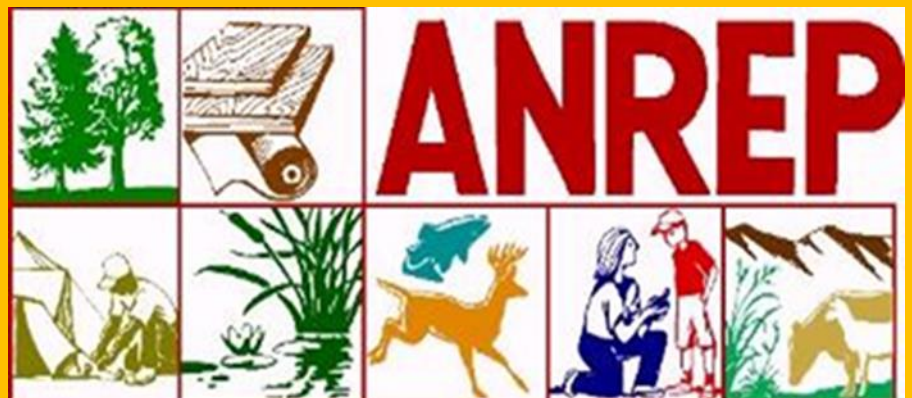
Anne Randle and Richie Braman, University of Georgia

Trees of Georgia is an online training and evaluation developed by UGA Extension and the UGA Center for Urban Agriculture. Designed to complement a traditional Master Naturalist class, it includes eight online modules on the ecology and identification of 75 tree species, native and invasive, found in Georgia. Each module requires students to watch an interactive video lecture on a cohort of trees, during which they answer questions on the lecture material. After watching the video lecture, they review interactive study tools and complete a quiz, identifying at least 80% of the tree cohort correctly before moving forward. They may also expand their knowledge by following related links curated for each module, and additional tree care resources on the website. The online course received a positive response from students in 2018, who showed increased knowledge and confidence and continued to use it as a resource even after course completion.

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WEB SITES, APPS, EDUCATIONAL TECHNOLOGY

SILVER AWARD

Invasive Species Augmented Reality - Outstanding Educational Materials

Angela Gupta, Lisa Anderson, Margo Bowerman and Megan M. Weber, University of Minnesota

Augmented reality (AR) allows us to overlay a digital scene or environment over a real-time object using an app on a smart device. This provides a unique opportunity in invasive species education to illustrate the impacts of invasive species that are difficult to see, out of season, or not yet present in the area. We used AR to turn an indoor lakeside camp scene in the Minnesota State Fair 4-H Building into an invasive species education opportunity using the Zappar AR app. We created eight AR scenes throughout the exhibit to provide invasive species outreach and education on both terrestrial and aquatic invasive species. While this type of AR is typically used on printed materials, we created innovative scenes where invasive plants grew from a boot brush, zebra mussels settled on detection plates before your eyes, and bark on real firewood peeled back to reveal emerald ash borer galleries.

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WEB SITES, APPS, EDUCATIONAL TECHNOLOGY

BRONZE AWARD

Stormwater Basics

Andrew Yench, Jennifer Fetter, Ashley Hughes, Kristen Kyler, Scott Sjolander and Susan Boser from Pennsylvania State University

Pennsylvania has 18,000+ impaired stream miles and increasing urbanization across the state. In Pennsylvania, there are also over 2,500 municipalities (townships, boroughs, and cities) with their own governmental structure and they are each responsible for their own Municipal Separate Storm Sewer System (MS4) permit if they have an identified urbanized area. Most municipalities are not sufficiently staffed to offer educational programs and materials required of their permit, and it is not an efficient use of limited resources for every municipality to invent their own materials. Penn State Extension responded to this by creating educational materials that all municipalities can use to help meet their permit obligations. Stormwater Basics is a free online series of short videos and articles for use on municipal websites and newsletters. It includes answers to common stormwater questions municipalities are asked. A landing page with trailer video invites municipalities to utilize the materials.

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ACHIEVEMENT AWARDS

Achievement Awards recognize exceptional ANREP members who exhibit outstanding leadership and program excellence individually and in teams.

INNOVATIVE PROGRAM

Expanding the Dark Skies to Improve Sea Turtle Nesting Beaches in Northwest Florida

Erik Lovestrand, Scott Jackson, Janice Becker, Jennifer Sims, Karen Shudes, Lindsey Maxwell and Ray Bodrey from University of Florida & James Moyers, Florida Fish and Wildlife Conservation Commission

Extension Faculty in three Florida mid-Panhandle counties were involved in coordinating a project to improve sea turtle nesting habitat by reducing artificial lighting sources. The program focused on beaches near existing parks to create larger contiguous sections of suitable nesting habitat. Coordination took place between the University, two state resources agencies, County staff, and private property owners and managers at the local level. Clientele were aided with lighting plans and turtle-friendly fixtures with amber LED bulbs. In-turn, they paid installation costs. As a result, savings are being realized, nesting beach habitat is improved, and clientele are compliant with local lighting ordinances.

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OUTSTANDING TEAM

Tree School Oregon

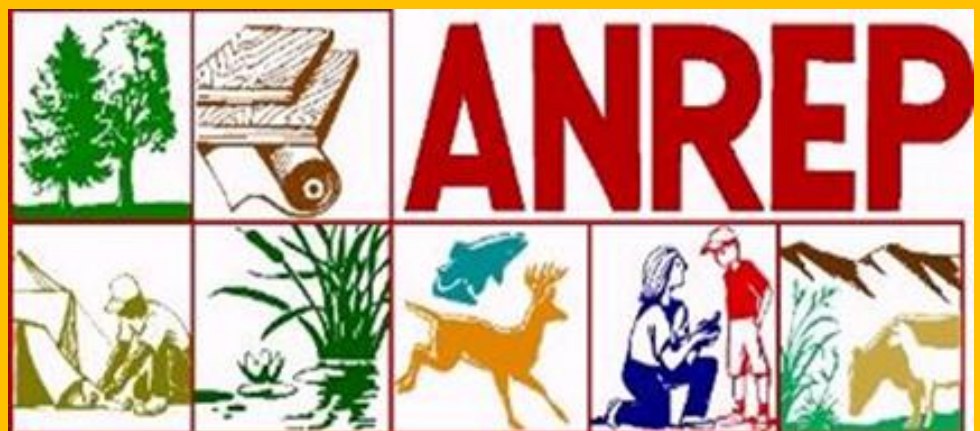
Alicia Christiansen, Nicole Strong, Daniel Leavell, Glenn Ahrens, John Punches, Lauren Grand, Max Bennett and Michael Bondi, Oregon State University

Led by OSU Extension, Tree School is the major education event for family forest owners in Oregon, being adopted statewide to engage over 1,000 people annually. Classes are based on needs assessment, focus groups, and feedback from instructors and participants. In 2018, Tree School Clackamas provided 77 classes for 645 woodland owners, involving 80 instructors and over 100 exhibitors, supporters, and volunteers. Three other Oregon Tree Schools in 2018 involved more than 400 people. A survey of participants (319 responses) showed that Tree School is an effective and high-quality program, with most rating it among the best (68%) or the best (20%) education event. Respondents said they improved on-the-ground management (92%), were better able to produce timber (74%), establish trees (69%), operate equipment safely (64%), control weeds (56%), and manage forest health (53%). Tree School is having a significant impact, improving landowner success in stewardship.

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EARLY CAREER LEADERSHIP

Jennifer Fawcett

Nominee Robert Bardon, Associate Dean of Extension NC State University

Jennifer Fawcett has shown exceptional leadership in the area of wildland and prescribed fire, a critical programming area for Extension in this country. Wildland and prescribed fire issues encompass economic, social and environmental realms that range from negative to positive. Her work has touched and had an impact in many, many areas. From teaching landowners, the why and how of controlled burning, to discussing the catastrophic effects of wildland fire, she has an innate ability to find out what her stakeholders need and how to deliver programs that have a positive influence on their decisions and actions. Her ability to engage with Extension professionals and coordinating partnerships have resulted in the ANREP initiative on wildland and prescribed fire and increased burning in longleaf pine ecosystems. She exemplifies what leadership is in our profession. Jennifer's leadership, and the impact she is making, reflects great credit upon herself, ANREP, and Cooperative Extension.

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DISTINGUISHED CAREER LEADERSHIP

Maia McGuire

Maia McGuire has been the UF/IFAS Extension Sea Grant agent in northeast Florida since May 2001. During her eighteen years in Extension, she has consistently developed programs that have been utilized or emulated beyond her local area. Her programs have included developing elementary curricula based on manatees, whales and dolphins, and sea turtles, and a citizen science microplastics outreach and education project. Maia has developed outreach materials (e.g. about lionfish and microplastics) that have been used by her colleagues statewide and beyond. She has served as president of FANREP, and as chair of the National Sea Grant Education Network. She has been recognized for her efforts with numerous awards, including a term professorship from UF's Dean of Extension.

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