



Florida Association of

# FANREP

Natural Resource Extension Professionals

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## MESSAGE FROM FANREP PRESIDENT!



Welcome again, FANREP.

This issue of your newsletter has been prepared in time for the 2016 EPAF in order to share more stories of your colleagues and their Extension programs. The articles describe the innovative and effective efforts to support the resiliency of our communities. I hope that all of us take the time to read and share them at EPAF with our Extension colleagues.

Since our last issue, several FANREP members were able to attend the joint 2016 ANREP conference with the National Association of Community Development Extension Professionals (NACDEP) in Burlington, VT. I'm pleased to say that FANREP was able to offer six (6) scholarships of \$300 to FANREP members to participate at it. These recipients have submitted short reports of their learning experiences at the conference for your perusal in this issue which should inspire you to take advantage of the FANREP scholarship program for assistance in future conferences.

I want to share with you the news that several FANREP members won national ANREP awards at the 2016 ANREP conference.

These members and their award category were Holly Abeels (Long Publication); Erik Lovestrand, Scott Jackson (Promotional Materials); Lara Milligan (Promotional Materials; Webinar); Rebecca Jordi (Series of Articles); Shannon Carnevale (Webinar); and Ken Gioeli (Website). Be sure to check out our poster at EPAF about their achievements with these awards. And I also want to congratulate the winners of the 2016 FANREP Awards Program. You can read who they are in this issue and we look forward to seeing them receive their awards at EPAF.

I am particularly pleased that this issue features articles describing a cross section of natural resources Extension programs relating to climate change. I know that all of us are very hard at work in conducting our Extension programs and serving our communities and supporting our colleagues. I sincerely hope that these articles on climate change not only put a spot light on the successes of these efforts on this topic but inspire all of us to take the time to learn from them and consider initiating similar programs within your disciplines.

As I begin my transition from my role of FANREP President to Past President, it sure seems to me like this year has just flown by. It has been a blast getting to know many of you better and serving our FANREP. As a friendly reminder, my next big role will be to represent FANREP as the President of the Board for the 2017 EPAF. I encourage you to also let me know how I can bring about some positive changes for EPAF in this role. I know that EPAF is really like our Extension homecoming event and I intend to make it as memorable as possible.

Thanks – Robert Kluson

## Climate Issues are Important in All Program Areas

At FANREP we really understand the connection between nature and our environment but what happens when that environment starts changing? Climate change is often thought of as small, slow, indistinct changes which will allow time for nature to adapt. As agents, do we need to identify and prepare for projected climate impacts to better serve our clientele?

Some FANREP agents are preparing for climate impacts. Around the state agents are working on issues such as; sea level rise, insurance, greenhouse gasses, policies and resource protection in the face of changing conditions. Looking at the impacts that climate change will have on Extension programs it is clear that ALL program areas will be affected in different ways. Many agents may not see the connection between their program and climate issues, but in fact climate change and sea-level rise in Florida are already impacting or will soon impact most IFAS Extension clientele and programming. Stakeholders, county officials, and engaged clients are increasingly aware of the potential for climate impacts and will be looking to Extension for guidance. Every agent should be aware of the projected climate change impacts in their program area. Some of the most challenging issues around climate change will happen in our fisheries, our agriculture and our tourism (gasp). Increasing insurance cost, food cost, and diseases like vibrio and zika will impact our clients.

If you're reading this and are not sure how climate change might impact your program, there is help available- Holly Abeels, Libby Carnahan, Thomas Ruppert, and I have put together EPAF 2016 IST called "**Climate Change Isn't Part of My Program Area, Is It?**" September 29th from 1:00-5:00pm. We will explore climate considerations in specific programming areas such as Family and Consumer Sciences, Horticulture, Agriculture, and 4-H Youth Development. This training will provide

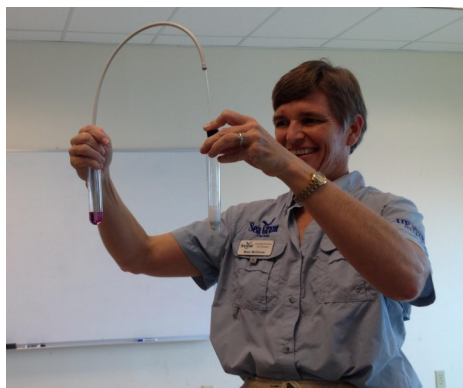
expert science in specific program areas as well as resources that the agents can use to explore climate impacts based on program area and location. The objective of this training is to increase agent knowledge and comfort level with projected climate impacts in existing program efforts and in turn empower agents to include climate variability and change in the development of their programs. You can learn more if you register at <http://pdec.ifas.ufl.edu/hub/Register.aspx?ist=31232> (Copy and Paste in your browser) or contact me at [betancourt-alicia@monroecounty-fl.gov](mailto:betancourt-alicia@monroecounty-fl.gov)



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## HELPING TEACHERS INCORPORATE CLIMATE CHANGE INTO LESSONS

Revisions to Florida's Sunshine State Standards several years ago added the term "climate change" to several science standards (particularly at the high school level). This made it easier for science teachers to include the science behind this often controversial topic in their lesson plans. Extension can help by providing "train the trainer" opportunities for K-12 teachers. I have had the opportunity to do this several times over the past six or seven years.



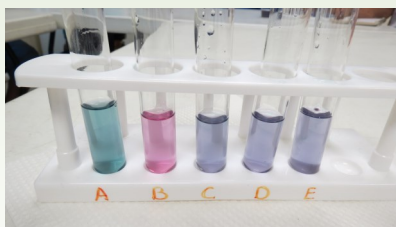
Maia showing how CO<sub>2</sub> decreases pH

My strength in teacher workshops is not so much in providing the climate science (although I and several other UF/IFAS Extension faculty have climate change or sea level rise presentations that we are happy to share). Instead, my strength is in showing teachers hands-on activities that they can do with their students in the classroom setting. As we all know, people often learn best by doing. I have found that if teachers are given the opportunity to actually see and do activities, they are much more likely to use them with their students. The number of activities that I will actually do in a teacher workshop depends on the time available, but there are great demon-

strations and lessons that teach about land ice vs. sea ice's contribution to sea level rise, thermal expansion of the oceans, changes in glaciers over the past century, using tree rings to explore past climates, sources of carbon dioxide, and ocean acidification's impact on sea urchin larvae (to name a few).



All of the activities can be done with minimal resources (e.g. did you know that purple cabbage juice can be used as a pH indicator?) I am happy to share a document that I put together with links to various climate change-related websites/activities that are appropriate for K-12 use, as well as Sunshine State Standards for many of the activities.



A participating teacher examines the pH of different items

**Maia McGuire, Florida Sea Grant Extension Agent**  
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Hello again, FANREPers, to my column which I hope provides you fresh food for thought to inspire you to consider future collaborations across disciplines that will enhance the impact and scope of your Extension programs.

For this edition, I want to share with you more about the concepts and principles of agroecology, especially as it pertains to natural resources Extension. In fact, you may be thinking that agroecology is primarily the domain of agriculture and not relevant to you and your programs. Let's examine the science of agroecology to evaluate such a conclusion.

Agroecology is the study of ecological processes that operate in agricultural systems that are defined as multi-functional systems including the environment and social aspects as much as the economics and production. Agroecology addresses issues such as agrobiodiversity, and food sovereignty & access, as well as crop yields. It has its origins, therefore, in the disciplines of ecology and sociology, as well as production agriculture.

A fundamental concept of agroecology is the agroecosystem which is comparable to the concept of an ecosystem. Agroecology provides the scientific basis to address the production by a biodiverse agroecosystem able to sponsor its own sustainable functioning. Just as one can refer to the value of ecosystem services to society and landscapes, so can one document the value of agroecosystem services to society and farm production. Therefore, one of the principles of agroecology is the management of natural resources on temporal and spatial scales. In my past 2 columns I have presented information of agroforestry practices that exemplify one application of these principles.

The proposal here that agroecology is a field ripe for natural resources Extension is not new. For example, previous similar statements have been published, such as an article of the Journal of Extension, October 2004, Volume 42(5):11, entitled 'Integrating Ecology and Relating Natural Systems to Agriculture: An Increased Priority for Extension Agricultural Programming' by Kyle Cecil. The opportunities continue to grow for natural resource Extension

programs, such as environmental horticulture and food gardening, and are limited only by one's imagination. For example, potential programs include teaching the concept of the garden agroecosystem; introducing Citizen Science in the garden and on the farm; teaching edible landscaping to address environmental and food justice needs of a community; and quantifying climate change mitigation with compost soil amendments.

Until my next column, keep on building your food (web) of thought . . .

Robert Kluson  
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## CLIMATE CONVERSATIONS—PINELLAS COUNTY

The Tampa Bay region is experiencing sea level rise and other climate change impacts, and there is broad scientific consensus that this trend will continue. In order to assess local residents' awareness and concern of local climate change impacts, UF/IFAS Extension Pinellas County, in cooperation with USF Department of Anthropology, developed community engagement Climate Conversation workshops. In total, four Climate Conversation workshops were attended by 130 participants between 2013 and 2015.

The programs consisted of a climate science overview, a video proposing three possible climate futures for the Tampa Bay region, and five interactive listening stations: sea level rise, transportation and infrastructure, water resources, food systems, and natural resources. The pilot program demonstrated that a clear majority of residents surveyed are concerned about climate change impacts to their region, justifying the continuation of the program.

This year, with Climate Conversations 2.0, the Agents will utilize “Environmental Issues Forum: Climate Choices” moderator and course materials to promote meaningful, productive local community conversations about the difficult issue of climate change that affect the environment and communities. This project will be conducted in three separate stages: the pilot stage, the implementation stage, and the replication stage. The invited audience will consist of a diverse group of people with the commonality that they will all be members of the same neighborhood association or community group and live in the same municipality. The workshop will consist of (1) welcome, introductions, and agenda overview, (2) establishing group norms, (3) a climate science overview with specifics for Florida and the geographic region of each workshop, (4) the deliberation, (5) program reflection, and (6) evaluation. The program will be expanded from

Pinellas County and replicated in Brevard and Escambia counties with funding support of Florida Sea Grant. Community-based learning events allow Extension faculty to collect information that can be used to develop responsive educational programs and provide vital information to assist local communities in decision-making processes. In addition, these workshops will both enhance and strengthen existing partnerships among Extension faculty across the state. Are you interested in bringing Climate Conversations 2.0 to your county? Email Libby Carnahan at [lcarnahan@ufl.edu](mailto:lcarnahan@ufl.edu).



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# CLIMATE CHANGE = GARDEN CHANGE

**D**uring the heat of the summer, it seemed like a perfect time to provide a class on climate change. Since my program area is Environmental Horticulture, the class not only focused on the meat of climate change but also what homeowners could do right now to preserve their garden.

In Alachua County, much of the Master Gardener (MG) program focuses on Florida-Friendly Landscaping™ (FFL) because of our concern for the springs. I asked my MG and Climate Reality Leader Susan Nugent to give her 1-hour presentation which she titled, "Climate Change = Garden Change." I asked her to lead this program based upon her training, first in Miami



and then at COP21, the UN Conference on Climate in Paris last December. She had previously given the presentation during a monthly MG meeting in April.

Within this presentation, Nugent starts with an examination of the extreme weather events happening globally. As I sat in the back, I witnessed the verbal and physical reactions that the homeowners had to the videos and statistics. After this overview, she presents solutions that are helping reduce our use of fossil fuels. A major section of the presentation addressed

how our gardening practices impact the environment and what they can do. Especially significant in Florida is the protection of our water. FFL practices are designed to reduce water use. They also provide one response to extreme weather events.

This class not only benefited the public but also gave my MG an opportunity to speak about what she is passionate about. "I find it exciting to work with a number of related Master Gardener programs," Nugent commented. "Already the FFL committee at Alachua County Master Gardeners is leading the way in identifying ways to address our extreme weather events."

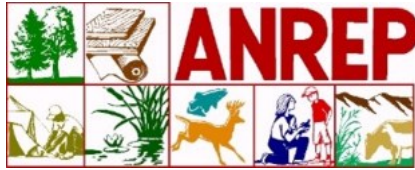
Addressing climate change and its additional gardening solutions enriches the program for residents to enjoy gardening. As a result of the class, 54% reported an increase in knowledge about climate change. Many were interested in additional classes on plant



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## CONFERENCE REPORT



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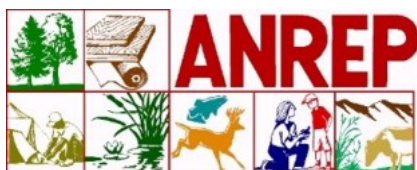


**FLORIDA'S IN  
THE HOUSE!**

**Reports from Attendees  
from this year's  
ANREP / NACDEP  
Conference**

UF / IFAS Extension Attendees

# CONFERENCE REPORT



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## ANREP CONFERENCE SHELIA DUNNING

The 2016 ANREP Conference was held in Burlington, Vermont and served as a joint meeting with NACDEP. "Building a Path to Resiliency" was the theme. Burlington, Vermont was an excellent example. Even though only 6% of Vermont's population lives in Burlington, the government is taking action to address future changes.

Burlington has established a Climate Action Plan which provides a detailed and strategic framework for measuring, planning, and reducing Green House Gas (GHG) emissions and the potential related climatic impacts. In 2010, the city created a greenhouse gas emissions tracking tool and began implementing 17 different mitigation actions. By 2025, the city of Burlington's goal is to reduce its GHG emissions back to that 2010 level.

Records show that the climate of Vermont is changing. Spring is arriving earlier, summers are growing hotter and winters are becoming warmer with less snow fall. Average winter temperatures across the Northeast have risen over 4° F in the last 50 years. Less winter precipitation falls as snow and more as rain.

Snow is a big business for the Green Mountain State. Skiing, snowmobiling and ice fishing contribute to thousands of jobs and over \$2 billion to the economy. Extended warm weather also impacts agriculture across the state. Cool weather crops suffer in the heat and require irrigation.

Weed and insect populations flourish, pressuring farmers into labor intensive activities or increased pesticide use. Not to mention the insects that vector human diseases. The mosquito and tick populations increase with warmer conditions.

Additionally, city infrastructures and open land areas become stressed when winter precipitation is rain rather than snow. Stormwater management and soil erosion protection becomes costly. Ultimately, it all must be paid for by the Vermont citizens.

To be resilient against these climate change impacts, the city of Burlington has implemented such actions as solar panels on municipal buildings, compact mixed-use development and a robust public transit network. Much of rural Vermont uses solar panels and wind turbines for electricity. By adding these alternate energy sources to urban buildings, the city decreased its electrical use by 1% annually.

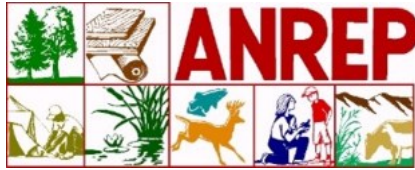
However, many people working in Burlington are commuting to work. Fifty-one percent of the city's greenhouse gas emissions are produced by cars, trucks, and busses. To lower emissions, a high-quality transportation system, including a public transit network, parking rates that maintain 85% utilization, and amenities that support biking, walking and car sharing have been implemented into Burlington's urban development plan. Parking along the streets in town is very limited. People leave their cars in parking garages and take the bus to businesses. For the times that an individual needs a car, they can take the nation's first non-profit car sharing operations, Car Sharing Vermont. These fuel efficient vehicles allow citizens to run errands quickly without adding excessive GHG emissions.

Burlington, Vermont isn't experiencing population expansion problems like many of our Florida urban areas. But, they are taking a proactive approach to meet and reduce future pressures. Burlington has demonstrated many techniques to address potential climate change issues and should be an example to others as to what can be done on the path to resiliency.

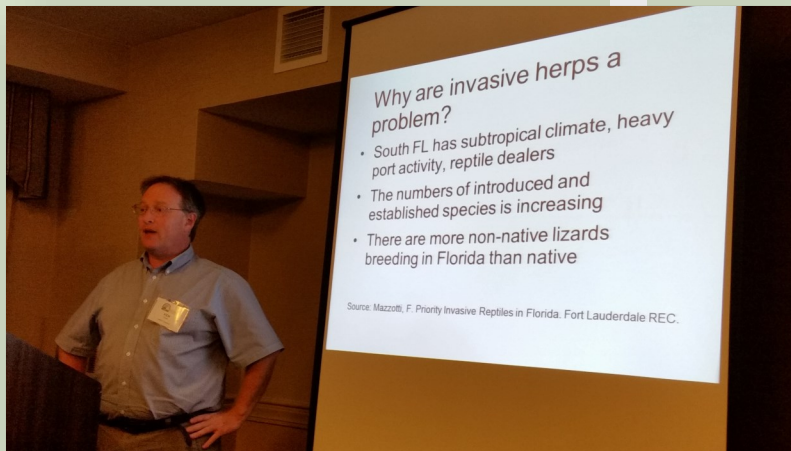
**Scholarship winner:**  
**Shelia Dunning**  
**Horticulture, Okaloosa County**



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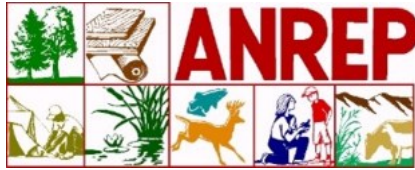
## Ken Gioeli presents on invasive species



Will Sheftall, Leon County

**ANREP / NACDEP  
CONFERENCE**

# CONFERENCE REPORT



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## ANREP CONFERENCE SHANNON CARNEVALE

Thanks in large part to a FANREP Scholarship, I was able to travel to the National ANREP Conference this year in Burlington, Vermont. While there, I presented on two UF/IFAS Extension programs. One, with Lara Milligan, on our Wildlife Wednesday Webinar Series and another, with Holly Abeels, about Overcoming Barriers to Implementing a Statewide Extension Program which used the Water School program as an example. Both presentations were well-received with good discussion taking place during the Q&A session.

One of the most impactful sessions I attended was on the topic of Cultural Arts in Extension Programming and the use of an Art Extension Agent to build community-engagement. The session discussed a community knitting project in which residents were able to submit any 12x12inch knitted square to the project for inclusion. The submitted squares were tediously attached to one another and used to "Knit-bomb" the façade of a local art gallery and building. The purpose of the project was to bring people into the space and help them appreciate that art does not have to be "high society" but can be, if approached from a community-centric perspective, a fascinating way to learn about local art and culture.

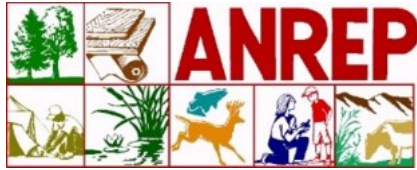
The potential use of public art to explore Extension topics has long been one I am attracted to but without any significant local examples, I wasn't sure how to get involved. If you are interested in using art to share natural resources extension programming, get in contact with me! I would love to brainstorm ways to make this a reality in Florida. And no, *it doesn't have to include knitting...*but who knows?

Maybe it should.



**Scholarship winner:**  
**Shannon Carnevale**  
**Natural Resources, Polk County**

# CONFERENCE REPORT

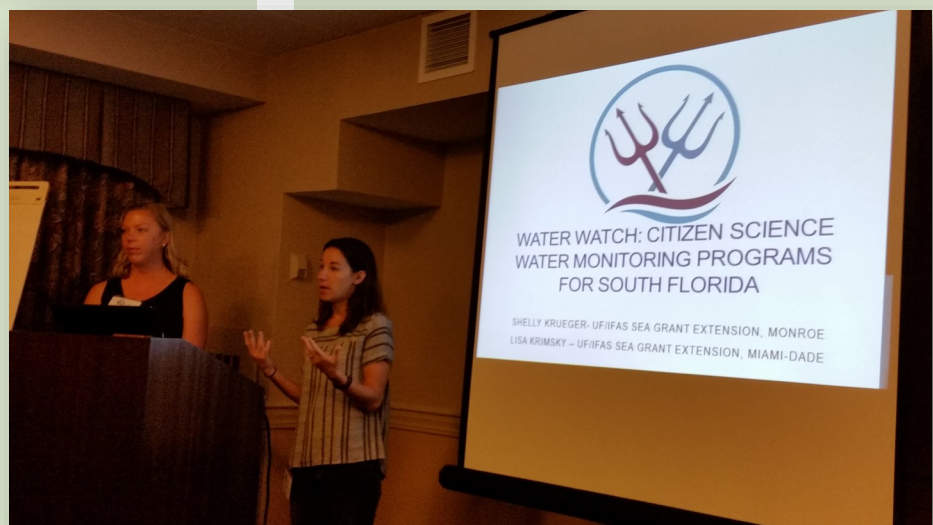


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Shelia Dunning and our own Brooke Saari (Washington State Extension) present their Dunes in Schools program

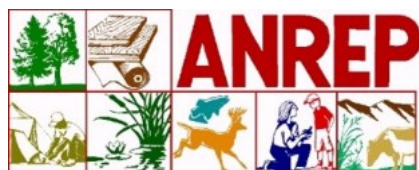
South Florida Sea Grant Agents Shelly Krueger and Lisa Krinsky present their Water Watch program



**ANREP / NACDEP  
CONFERENCE**



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### ANREP CONFERENCE LARA MILLIGAN

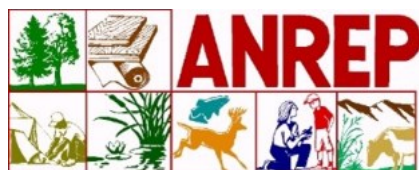
Thanks to the support of a FANREP scholarship, I was able to attend the ANREP Conference in Burlington, VT at the end of June. This was the first time an ANREP conference was held in conjunction with a National Association of Community Development Extension Professionals (NACDEP) conference. I will admit I was wary of sharing our conference with a new association, but it turned out to be AMAZING! I actually ended up attending a good mix of ANREP and NACDEP presentations and it was a great opportunity to expand my Extension network. With the funding from the FANREP scholarship, Shannon Carnevale (Natural Resources Agent, Polk County) and I were able to give our abstract presentation on our Wildlife Wednesday Webinar series we offered in 2015. We received great feedback about our program and had a very engaged audience, which was fantastic. Shannon and I came up with the idea for this series because while the public might be interested in learning about local wildlife, they are often reluctant to drive to a public presentation to get their education. The Wildlife Wednesday Webinar series was offered on the third Wednesday of every month, August through December, from 12:15-1:00pm as a lunch & learn opportunity. Webinars are common among professionals, but are an innovative tool for reaching the general public. They have proven to be an excellent resource for environmental outreach with a goal to advance the knowledge of participants about local wildlife and ways to coexist with them. A total of five webinars were offered in 2015 reaching

147 people. Each webinar concluded with a link to an online evaluation. Eighty participants completed an evaluation for a 54% response rate. A retrospective pre/post question about knowledge prior to and after the webinar showed a 63% increase in knowledge (on a five-point scale) from an average score of 2.7 prior to the webinars and 4.4 after, and 55% (n=76) strongly agreed and 45% agreed that the information participants received in the webinar will help them to better protect natural resources (native plants and animals). The information learned was also extremely likely (57%) and likely (38%) to be shared with others. Webinars are a great way to reach the public who are already interacting with computers and cell phones as part of their daily routine, and they are highly transferable for use in Extension programs. Shannon and I are offering another series this year focused on backyard habitat. Future webinars can be found at <http://www.eventbrite.com/o/ufifas-extension-polk-county-natural-resources-program-1815233305> And recordings at <http://pinellas.ifas.ufl.edu/natural-resources.shtml>



**Scholarship winner  
Lara Milligan  
Natural Resources, Pinellas County**

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## ANREP CONFERENCE LAURA TIU

As a first-time ANREPer, I was so excited to be chosen to give an oral presentation at the 2016 Association of Natural Resource Extension Professionals national conference. This was a joint meeting with the National Association of Community Development Extension Professionals. The theme of the meetings was *Building a Path to Resiliency: Uniting Natural Resources and Community Development*. This theme is so true in our coastal areas of Florida as community development is closely interlinked dependent on natural resources, particularly the beach, and we need to be cognizant of this as development expands. Extension has an opportunity to use their expertise in both of these areas to facilitate sustainable development in our communities.

Annual conferences, in general, are important for professional development for several reasons. They introduce you to new and innovative programming in other states, enhance your network of peers and give you the opportunity to share your work with others. Annual conferences are also the place where excellence and achievement are recognized. At the ANREP meeting, I was proud to see our colleagues from University of Florida picking up a few of the awards. These opportunities allow members to excel at the mission of ANREP, striving to provide a variety of approaches to help educate landowners, managers, decision makers and youth.

The conference was typical with multiple concurrent sessions to attend. I spent some time perusing the poster session, checking out the items in the silent auction and talking with some of the meeting sponsors.

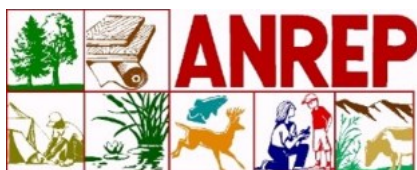
Of course the most fun part of the conference was enjoying visiting the great State of Vermont. In the days before and after the conference, I climbed Mount Philo and visited several state parks in the area. One of my favorite experiences was seeing spiny soft shell turtle nesting areas on the coast of Lake Champlain. The Vermont food tour, with a trip to Ben and Jerry's, apple cider mills and a maple syrup tasting added onto the fun.

I was impressed with the town of Burlington, Vermont as well. It seems to be a place that has embraced sustainability and is actually doing many of the things our communities should be doing, but aren't. I saw lots of recycling, support for local business, downtown development with thriving restaurants and small stores and a bustling waterfront designed to provide entertainment for both the citizens and the many tourists. Not a bad place to live, when there isn't two feet of snow on the ground, and a great place to visit.



Scholarship winner  
Laura Tiu  
Sea Grant, Okaloosa—Walton Counties

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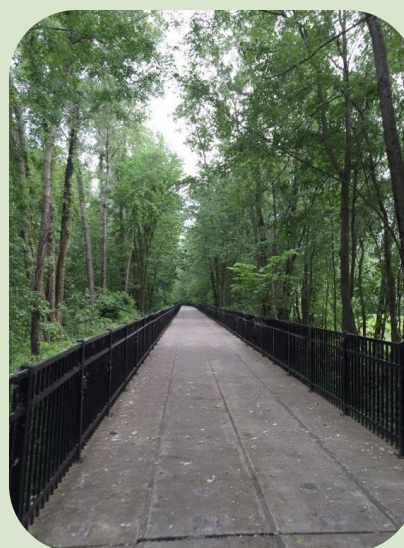
### ANREP CONFERENCE CARRIE STEVENSON

If you told me earlier this summer that I would “accidentally” bike 18 miles one afternoon, I’d have laughed. I’ve always loved biking, but rarely have time for long distance rides. As part of the mobile workshops for this year’s NACDEP/ANREP joint meeting, 15 of us met up with the coordinator of Local Motion, a grassroots bike advocacy organization. Their mission is “to bring the joy of walking and biking within reach for all Vermonters by helping Vermont communities become great places to walk and bike.” The purpose of the tour was to get an on-the-ground lesson in community development and learn how the group has worked with residents to overcome challenges in implementing a successful project.

Burlington’s “Island Line Trail” is a classic rails-to-trails project that has resulted in significant economic development and increased use by area residents. The original rail service operated from 1899 to the early 1960’s. Since the 1990’s, 14 miles of railway has been converted to a biking/walking trail. Part of the Island Line’s charm is the diversity of scenery it encompasses. Starting in the heart of downtown Burlington, there are museums, shops, and restaurants within blocks of the trail, many of which cater directly to and exist because of the trail users. The entire stretch runs adjacent to Lake Champlain, providing scenic views along the path. Throughout the trail there are residential areas

(which are highly desired because of their proximity to the trail), public parks, and a community center. After crossing a bridge over the Winooski River, we embarked upon a 3-mile open causeway with sweeping views of Malletts Bay on both sides. The trail also includes one of the country’s few bike ferries, which is located where a swing bridge used to operate for the railway. It was the constantly changing scenery and surroundings that kept a handful of us going far beyond the initially planned 6-mile trip.

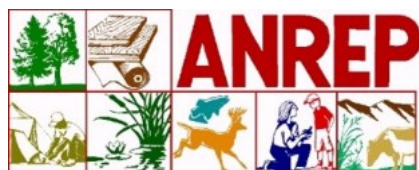
Much of the success in Burlington is transferable to Florida. In the Panhandle, we are looking at connecting existing trails to create a large-scale multi-county, multi-state bicycle trail. The successes in Vermont were inspirational and instructional as we embark upon our new project.



**Scholarship winner  
Carrie Stevenson  
Coastal Sustainability Agent, Escambia County**



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### **ANREP CONFERENCE MARIA PORTELOS-ROMETO**

#### **Maria's Presentation:**

Sarasota County's Comprehensive Plan encourages the use of county parks for community gardens to promote sustainable agriculture practices. However, four years ago, coordination and standards varied dramatically for each of the gardens which resulted in confusion and risk. New gardens also faced significant hurdles as they considered complex legal and governance issues.

As interest grew, the need for a cohesive program became apparent. In 2011, the University of Florida/Institute of Food and Agricultural Sciences Extension hired a dedicated Community and School Gardens Program Coordinator, the first of its kind in Florida. Over the next 18 months, Extension worked with municipal officials, non-profits and gardeners to develop and implement a consistent, positive model for the use of public lands as community gardens.

With the success of the Gardens Program, staff also endeavored to establish a replicable model for school gardens. Awareness in the value of growing your own food increased with the Healthy Hunger-Free Kids Act in 2010. Meanwhile, local interest in youth gardening

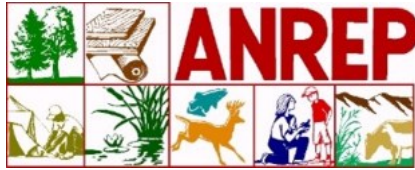
increased and teachers struggled to find the necessary resources to establish school gardens.

Questions and concerns arose regarding funding, maintenance, construction and curricula. Extension took a multi-program approach working cooperatively with the Agriculture agent, 4-H, Family and Consumer Sciences, and Horticulture agents, along with the Family Nutrition Program (FNP), Master Gardeners, Florida Dept. of Agriculture and its regional Farm to School Coordinator. Additionally Extension collaborated with external stakeholders and community partners to find solutions.

This collaboration resulted in the creation of twenty-two new school gardens in Sarasota County since 2012. Partnership with FNP (SNAP-ED) doubled the amount of students reached with nutrition and gardening education. Through the Community and School Gardens Program Coordinator, input from agents, FNP funding and teaching from recognized curricula, Extension has successfully connected resources to community development.

**Scholarship winner  
Maria Portelos-Rometo  
Family and Consumer Science Agent, Sarasota County**

# CONFERENCE REPORT



*Uniting Natural Resources &  
Community Development*



## **Long Publication**

Bronze Award—Holly Abeels

## **Promotional Materials**

Gold Award—Erik Lovestrand, Scott Jackson, Jamie Johnson

Silver Award—Lara Milligan

## **Newsletter, Series of Articles**

Bronze Award—Rebecca Jordi

## **Televised Conference, Video Conference, Webinar, Podcast, Radio**

Silver Award—Lara Milligan, Shannon Carnevale

## **Websites, Social Media, Online Courses**

Gold Award—Ken Gioeli, William Overholt, Min Rayamajhi,  
Christopher Kerr, Eric Rohrig

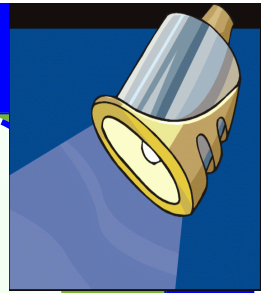
## **Conference Poster Competition**

Silver Award—Carrie Stevenson  
Bronze Award—Don Rainey

## **Conference “Ignite” Session Winner**

Lloyd Singleton

**ANREP / NACDEP  
AWARD WINNERS!**



## COUNTY FACULTY SPOTLIGHT

**Ray Bodrey** is the County Extension Director in Gulf County. New face, familiar role.

Ray came to UF/IFAS Gulf County Extension in January of 2016 after spending the better part of a decade with the Water Quality Program at the University of Georgia Marine Extension Service and Georgia Sea Grant.

Ray's work on the Georgia coast was mostly in nonpoint source pollution research of marine surface waters, especially in areas prone to stormwater issues. His studies focused primarily on nutrient and bacteria level impacts on recreational waterways. During his tenure, he was also involved in fisheries, sustainable community and hazard resiliency efforts.

Now, as the Gulf County Extension Director, Extension Agent II, Ray is responsible for county leadership of extension as well as forging strong relationships with citizens, stakeholders, project partners and local/state/federal agencies. While the role of an extension agent can be difficult to sum up in a sentence, Ray serves Gulf County as both an educator and facilitator. Whether citizens want to learn more about a topic, need someone to guide them through an agriculture or natural resource process, or just want to develop local partnerships, as an extension agent, he is poised to help.



Ray's extension education program focuses are in agriculture, most notably beekeeping and horticulture, as well as natural resource and community development. Sea Grant programming such as fisheries, hazard resiliency and healthy oceans and coasts will be an integral part of the natural resource component of extension for Gulf County. Upcoming extension programming for Gulf County will include the Florida Master Naturalist and Master Gardener programs.

Ray holds a bachelor of science degree in biology from Georgia Southern University (2006), a master's degree in agricultural leadership from the University of Georgia (2011) and a master of science degree in soil and water science from the University of Florida (2015).

**Ray Bodrey, UF/ IFAS Gulf County Extension Director**  
**Agricultural, Horticulture, Natural Resources, Community Development**  
**Email: [rbodrey@ufl.edu](mailto:rbodrey@ufl.edu) (850) 639-3200**

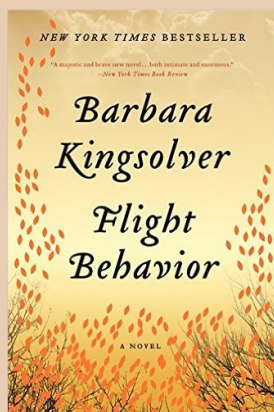


### BOOKS ON NATURAL HISTORY

In this edition we are highlighting media dealing with climate issues. The first is another in the new genre of books... “Cli-Fi”; this one entitled *Flight Behavior*. There is a series of short films produced by UF undergrad film students based on a colloquium series this past spring on campus. The videos are posted under the UF Imagine Climate Change website— <http://imagining-climate.clas.ufl.edu/videos/>

#### “Flight Behavior” by Barbara Kingsolver

My second introduction to the Cli-Fi genre is the 2012 novel “Flight Behavior” by Barbara Kingsolver. If you are familiar with other titles by Ms. Kingsolver, this book delivers the richness of writing style and plot that you expect. Here the plot integrates the impacts of climate change within the story of the journey of self-realization of the main character, Dellarobia, against the constraints of a rural Appalachian community. The described impact is the disruption of the migratory flight of monarch butterflies due to loss of micro-climate and habitat. It uses this impact as the vehicle to depict the intersection of the social fabric of personal lives and the uncertain paths of human and biological adaptations to climate change. While the story depicts a specific setting, I found the book to eloquently depict how society, in general, will respond to the impacts of climate change within the context of ongoing issues of social and economic survival. It suggests a path to reach the hearts, as well as the minds, of people for increased awareness and action about climate change.



#### IMAGINE CLIMATE CHANGE

On the home page there are three short films.

- 1) **Imagine Something Terrible Happens**—in this short film both authors and scientists discuss the problems the next generation will face.
- 2) **After the Anthropocene** - the guest discuss what the future will be like, that our impact (from a very short period of geologic history) will last 100,000+ years. They may be suffering down the road but optimism that it we learn and improve
- 3) **Hope**—there will be large changes down the road, ready or not, and that the key to preparing for this lies with those who can make the changes

There is more information on the website. <http://imagining-climate.clas.ufl.edu/videos/>



# FANREP 2016 AWARDS

Susan Haddock Chair

## FANREP Achievement Awards

Early Career Leadership  
Mid Career Leadership  
Career Leadership

Shelly Kreuger  
Rebecca Jordi  
*no entries*

## FANREP Program Awards

### Innovative Program

- 1st** **Sheila Dunning** (Group): Jennifer Bearden, Scott Jackson, Laura Tiu, Brooke Saari, Dawn Pack, Brittney Tate  
**2nd** **Libby Carnahan** (Group): Tampa Bay Climate Science Advisory Panel  
**3rd** **Jim Davis** (Group): Moffis, B.L., Boughton, R.K., Daniels, J.C., Demers, C., Enloe, S.F., Hill, J.E., Johnson, S.A., Pienaar, E.F., Westervelt, D., Clothier, A., Stout, R., Lester, W.

**Individual Program Leadership** Maia McGuire, Ph.D.

## Outstanding 4-H/Youth Development Award

- 1st** **Sheila Dunning**  
**2nd** *no entries*  
**3rd** *no entries*



## FANREP Friends of Extension Award

**Tonya Clayton, Ph.D.** Nominated by Lara Milligan

## FANREP Outstanding Specialist

**Tatiana Borisova, Ph.D.**

## FANREP Education Materials Awards

### Promotional Materials

- 1st** Lara Milligan  
**2nd** Mary Derrick (Group): Elizabeth Bolles, Sheila Dunning, Mike Donahoe, Tracy Bryant, Johanna Welch  
**3rd** Susan Webb, Erin Elsberry

### Brief Publication

- 1st** Lisa Hickey  
**2nd** Chris Verlinde  
**3rd** Erin Elsberry

### Short Publication

- 1st** Libby Carnahan  
**2nd** Mary Derrick  
**3rd** Lisa Hickey

## Awards Committee:

Susan Haddock (szcrmchz@ufl.edu)

Theresa Badurek (tbadurek@pinellascounty.com)

# FANREP 2016 AWARDS

Susan Haddock Chair

## FANREP Education Materials Awards

### Long Publication

- 1st** Holly Ober  
**2nd** Shelia Dunning (Group): Jennifer Bearden, Scott Jackson, Brooke Saari, Dawn Pack, Brittney Tate  
**3rd** Jim Davis

### Newsletter

- 1st** Chris Demers  
**2nd** Mary Derrick (Group): Elizabeth Bolles, Molly Jameson, Matt Lollar, Shelia Dunning, Les Harrison, Gary Knox, Julie McConnell, Matt Orwatt, Judy Biss, Carrie Stevenson, Blake Thaxton, Taylor Vandiver, Pete Vergot, Larry Williams, J. Xin  
**3rd** Lynn Barber

### Series of Articles

- 1st** Susan Haddock  
**2nd** Nicole Pinson

### Radio

- 1st** Judy Biss  
**2nd** Tayrn Sudol  
**3rd** *no entries*

### Video / Video Disk

- 1st** Tayrn Sudol  
**2nd** Elizabeth Staugler  
**3rd** *no entries*

### Computer Software / Application

- 1st** Carrie Stevenson (Group): Libbie Johnson, Rick O'Connor, Blake Thaxton, Chris Verlinde  
**2nd** *no entries*

### Web Page

- 1st** Shannon Carnevale and Lara Milligan  
**2nd** *no entries*

### Mixed Materials

- 1st** Erik Lovestrand  
**2nd** Shannon Carnevale  
**3rd** *no entries*



### Awards Committee:

Susan Haddock (szcrmchz@ufl.edu)

Theresa Badurek (tbadurek@pinellascounty.com)



# FANREP MEMBERSHIP UPDATES

Theresa Badurek, Membership Chair

## IT'S TIME TO VOTE !

**FANREP ELECTIONS ARE OPEN UNTIL SEP 23**

**TO VOTE VISIT**

[https://ufl.qualtrics.com/SE/?SID=SV\\_2g8OpJMB4QH5z5H](https://ufl.qualtrics.com/SE/?SID=SV_2g8OpJMB4QH5z5H)

### FANREP MEMBERSHIP UPDATE

#### Reminder

#### What will stay the same:

- Send any updates/changes to your membership information to the FANREP membership chair (via e-mail).
- Send an e-mail to the FANREP membership chair showing your confirmation of payment of dues from Paypal/ANREP. Payment confirmation emails or registration confirmation for check payment must be sent to the membership chair by 11:59 pm December 31, 2016.
- The deadline to join or renew your ANREP/FANREP 2016 membership is December 31, 2016.

#### What will change:

ALL MEMBERSHIP DUES FOR 2017 SHOULD BE PAID DIRECTLY TO ANREP VIA THEIR WEBSITE ([HTTP://WWW.ANREP.ORG/JOIN](http://www.anrep.org/join)). Payments can be via check or Paypal. Membership dues will remain at \$95 (\$60 for ANREP and \$35 for FANREP).

#### EXCEPTIONS:

- If you are a new agent (1<sup>st</sup> year), your FANREP dues are waived for that year, so you only have to pay \$60 to ANREP.
- If you only want to be a member of FANREP and not ANREP (*we really don't recommend this*), send your dues of \$35 to the FANREP membership chair. Make check payable to "ANREP, Florida Chapter".
- The current FANREP membership list (for 2016) is sorted alphabetically by last name.

#### FANREP SCHOLARSHIP UPDATE

- Your membership dues must be paid for the current year in which you're applying for a scholarship.
- The maximum scholarship amount that will be awarded per member is \$300.00, one award per year per awardee. All travel award recipients are required to submit a summary of the presentation to be published in the FANREP newsletter.
- The member receiving the scholarship must present at the conference/meeting (speaker, abstract, poster, etc.).
- The total number of scholarships awarded each year will be based on available funds.

Theresa Badurek—Urban Horticulture

Pinellas County - [tbadurek@pinellascounty.com](mailto:tbadurek@pinellascounty.com)— (727) 453-6966



**F**ANREP is a statewide association for Cooperative Extension Service (CES) professionals working in environmental education, fisheries, forestry, wood sciences, Florida Friendly Landscaping (FFL), waste management, water, wildlife, community development and related disciplines. Our main objectives are to:

- Bring Extension professionals together to discuss mutual natural resource issues, needs, and opportunities.
- Advance natural resource Extension through continuing education for Extension professionals.
- Promote cooperation among states and regions, agencies, associations, and businesses on natural resource education programs.
- Develop, sponsor, and promote education and training programs that advance natural resource management.
- Strengthen communication with Extension administrators

### ***Board Members***

President	Robert Kluson
President Elect	Alicia Betancourt
Secretary	Lara Milligan
Treasurer	Holly Abeels
Past-president	Carrie Stevenson

### ***District Directors***

District 1 (Northwest)	Mary Derrick
District 2 (Northeast)	BJ Jarvis
District 3 (Central)	Lloyd Singleton
District 4 (South Central)	Libby Carnahan
District 5 (South)	Shelly Kreuger

### ***Committee***

Website  
Scholarship  
Newsletter  
Awards  
Abstract  
Membership

### ***Chairs***

Lisa Krimksy  
  
Rick O'Connor  
Theresa Badurek and Susan Haddock  
  
Nicole Pinson  
Theresa Badurek