



Contents

FANREP President Message	1
13 th International Conference on Agriculture & Horticulture	2
NSS+NEES 2019	3
ANREP Initiative	4
A Rough 2016 for Mid-Panhandle Seafood Industry	5
IUFRO Biannual Conference	6
2018 FANREP Awards	7 — 8
Board Positions	9

MESSAGE FROM THE FANREP PRESIDENT!

Hello FANREP colleagues,

Happy New Year! I'm pleased to serve as your President for 2018-2019. FANREP is a small but mighty organization and I'm proud to be a member. We are supportive of each other and have amazing work to showcase every year. I look forward to seeing what this new year brings us!

Theresa Badurek, FANREP President-Elect, and I are your FANREP representatives on the EPAF Board. We had our first EPAF Board meeting on January 8th where we went over the 2018 EPAF evaluation and started planning for the August 26 -29, 2019 EPAF. There will be some changes in the EPAF schedule this year so stay tuned! Due to the devastation of Hurricane Michael in the Panhandle, the EPAF Facilities Chair is negotiating with the Sanibel Harbour Marriott Resort & Spa in Fort Myers to have the 2019 conference there. The 2020 EPAF Conference is being negotiated to be at the Sheraton Bay Point in Panama City. More details will be announced soon once everything is finalized.

Also save the date for the Extension Symposium to be held May 7-9 at the Hilton Hotel and Conference Center in Gainesville. I really enjoyed attending and participating in the symposium in 2017. Dr. Obreza gave the EPAF Board highlights of the schedule for the Symposium. It sounds like it'll be a good meeting with time for networking and collaborating (there'll be a separate room just for this) and a Tuesday evening reception at the DoubleTree Hotel. Registration is expected to open by the end of January. There will be no cost for registration and the Dean's office will cover travel.

Just before the holidays, ANREP announced that online applications are open for [ANREP awards](#) (deadline for award submission is February 15th 5:00pm). Our own FANREP awards will be announced soon so stay tuned for when you can start applying. Please note you need to apply for ANREP and FANREP awards separately. Unlike other associations, we don't "send up" winning awards at the state level to the national level. But if you do apply for ANREP awards, save those nominations for the FANREP awards since many of our awards overlap. Don't make more work for yourself.

Thanks to Carrie Stevenson and Linda Seals for putting this newsletter together and for everyone who submitted articles. Since the theme of this newsletter is sustainability, I'd like to offer a couple of sustainability tips that I recently read from The New York Times Climate Fwd: newsletter. (1) Hang onto your phone. It's tempting to want the latest and greatest phone and most people trade in their cell phone after 2 years. But producing a common smartphone releases the equivalent of 178 pounds of carbon dioxide, about as much as running a modern refrigerator for a year (study highlighted in this [article](#)). If your phone is still working perfectly fine, think about whether you really need that new smartphone. (2) Buy less clothing, and donate or recycle any clothing that you plan to throw away when purging your closet. (3) Reduce food waste. This is a big one since the [U.S. food waste estimate is between 30-40% of the food supply](#). The [EPA](#) has a list of helpful tips for reducing food waste at home and many Extension programs offer information about how to reduce food waste. Reducing food waste saves you money, lowers your carbon footprint, and conserves energy and resources. If you haven't thought of a New Year's Resolution yet, try incorporating one sustainability action into your routine.

I hope you all have a great beginning of 2019! Let me know if you have any questions or comments as the year continues. Thanks.

Holly Abeels



The 13th International Conference on Agriculture & Horticulture

September 10-12, 2018, Zurich, Switzerland

UF/IFAS Extension Hillsborough County Horticulture Agents Lynn Barber and Susan Haddock attended the 13th International Conference on Agriculture and Horticulture in Zurich, Switzerland. As a team, we presented *Florida-Friendly Landscaping™ (FFL): A Grass-Roots Residential Program That Promotes Urban Environmental Stewardship*. The oral presentation provided information on the nine principles of Florida Friendly Landscaping™ (FFL), the "Water 2070" report as it relates to population growth and future water needs, and Florida state legislation that states that the ongoing FFL program is fundamental to reducing future water demands and protecting water quality. The presentation highlighted statewide water conservation data from 2017 and summarized Green Industries Best Management Practices (GIBMP) program results from 2008 through March 2018.

Conference attendees were impressed that FFL water conservation programs utilized 89 UF/IFAS Extension faculty to reach 60,600 residents, of which 93% reduced irrigation to two days/week, 90% reduced irrigation in winter months, 87% reduced irrigation during adequate rainfall and 69% switched to low-maintenance plants. The educational outreach impact presented was:

- ◆ 176,405,796 gallons of water saved – enough to supply 2,005 households with water for one year
- ◆ \$583,903 saved on utility bills
- ◆ \$458,655 saved by utility companies on water preparation/delivery costs

Conference attendees were equally impressed by the GIBMP program structure and impact. Many attendees were surprised at the scope of coursework offerings: on-line, in-person or DVD, and in three languages, and how that provides many options to enhance green industry professionals' knowledge and judgment and brings awareness to their role in protecting Florida's water and environmental resources. GIBMP Objectives were presented: 1) Reduce off-site transport of sediment, nutrients, and pesticides through surface or ground water, 2) Use appropriate sight design and plant selection, appropriate rates and methods of fertilizer and irrigation application to prevent pollution, conserve water, and promote healthy plants, and 3) Incorporate integrated pest management (IPM) to decide when pesticide applications are needed to manage pests in the landscape.

The educational outreach impact was presented in visual graphs and included that:

- ◆ Total attendance in GI-BMP programs for all delivery methods is over 56,000 with 47,622 certificates issued.
- ◆ On-line and DVD options have increased to 47% in the past three years.
- ◆ Significant increases in behavior change measured 6-12 months post training in water conservation, reduction in pesticide use, and proper fertilization application.
- ◆ BMP attendees noted a positive change in attitude and ability to communicate with clients regarding cultural practices, water conservation and IPM: reduced pesticide use, money savings, and natural resource protection.

Other conference sessions involved topic areas of agricultural engineering, agricultural production systems, agricultural biotechnology, agriculture and food security, plant science, agricultural production systems, fertilizer and pesticide, crop sciences, and soil and water

management. Poster presentations were made by graduate students and other presenters.

Four attendees were from the United States. Other presenters were from Australia, South Africa, India, Vietnam, China, Mexico, Azerbaijan, South Korea, Japan, Hungary and Chile. There were many interesting professor and student presentations, most involving research projects and results; such as: Improving crop production in developing countries, Quantifying and correcting for clay content effects on soil water measurement by reflectometers, Modern techniques for walnut propagation, Sewage water effects on Okra growth affected by organic matter, Effects of day length on mineral concentration, chlorophyll content and yield of kale microgreens, and Fabrication and evaluation of novel slow release agrichemicals for improving nitrogen uptake.

Swiss trains were close to the hotel, on time, clean and generally quite occupied. The train station in Zurich was like a shopping mall with grocery stores, restaurants, bars, flower shops, and book and card shops. There was a significant amount of Italian food available, pasta and pizza, and we enjoyed Swiss fondue and raclette, a melting cheese you melt over grilled vegetables. Switzerland was breathtakingly beautiful, and extremely clean. The people were friendly and helpful. We found Zurich to be very walkable.

As a result of the presentation, several conference participants asked for a copy of our presentation and business cards, took our handouts and gave us their contact information due to interest in developing a similar program in their country. The conference was an excellent experience and the contacts we made will be valuable for potential future collaborations. Thanks to Esen Momol, Ph.D., CJ Bain, John Bossart, Claire Lewis and Don Rainey for their input and assistance in this endeavor, and the Dean's office Extension Service Professional Development Mini-Grant, our District Director, Brenda Rogers, and the FANREP travel scholarship program for financial assistance



Susan Haddock
Urban Horticulture and Small Farms
szcrnchz@ufl.edu

Lynn Barber
Florida-Friendly Landscaping
labarber@ufl.edu

Hillsborough County Extension
(813) 744-5519

NSS+NEES Tampa 2019

National Sustainability Summit & National Extension Energy Summit

What does April 2019 mean to you? For natural resource and environmental professionals, it represents a historical milestone: the 50th Earth Day in the U.S. and the 30th Earth Day globally. It is a time to celebrate our collective successes, renew our commitments to protecting, restoring, and improving conditions for people and the planet, and think big about the possibilities ahead. And in our own backyard, April 2019 is a milestone for FANREP and our colleagues and community partners: the National Sustainability Summit (NSS) and National

Extension Energy Summit (NEES) are coming to Tampa! Join us for NSS+NEES April 16-19, 2019 at the Westshore Grand and spread the word so that together we can ***Harness Our Collective Energy to Address the Rising Tide.***

UF/IFAS is hosting NSS+NEES 2019 in partnership with the National Network for Sustainable Living Education (NNSLE), the National Extension Energy Initiative (NEEI), the ANREP Climate Science Initiative, USDA -NIFA, the Regional Rural Development Centers (RRDCs), Hillsborough County, the University of South Florida Patel College of Global Sustainability (and others!) Our national planning team expects 200-250 conference participants from across the country, including Extension and research faculty, formal and informal educators, graduate students, practitioners, and community partners who will be presenting, discussing, and networking around issues of **climate, energy, water, food systems, land, and community**. To learn more, visit our conference website at <https://www.nationalextensionsummits.com> and make your plans today for the most impactful Earth Day "Week" yet!

Questions, or want to support the event in some way big or small? Contact Ramona Madhosingh-Hector, NSS Co-Chair, at ramona.m.hector@ufl.edu or 727.582.2656.


NSS+NEES Tampa 2019

National Sustainability Summit &
National Extension Energy Summit

ABOUT US

This national conference will bring leading sustainability and energy educators and practitioners together to showcase land grant university Extension and research program successes, share challenges, and identify opportunities to strengthen our collective impacts. Participants will hear from dynamic plenary speakers with expertise in sustainability and energy issues, enhance their professional knowledge and skills through pre-conference educational tours and/or mobile workshops, attend inspiring abstract presentations and networking sessions, and learn from local exhibitors and sponsors. Extension professionals from all national associations will benefit from the cross-disciplinary and process-oriented structure of the joint Summits.

Extension Sustainability Summit 2016: Portland, OR



2016 Extension Sustainability Summit offered attendees several field tour options. This photo is of the group who toured Portland on bikes/B. Elrod.

National Extension Energy Summit 2017: Knoxville, TN

By Jennison Kipp Searcy, Resource Economist
UF Program for Resource Efficient Communities

ANREP Initiative Provides National Networking and Collaboration Opportunities



National Network for SUSTAINABLE LIVING EDUCATION

Have you heard about the National Network for Sustainable Living Educators (NNSLE)? NNSLE is an ANREP initiative created for Extension professionals who work in sustainability. NNSLE is a great way to meet colleagues from other states who work on sustainability issues such as food systems, water, climate change, and energy. With support from our partners in USDA-NIFA, NNSLE members connect through monthly conference calls during which we learn about each other's program; share resources, research, and information; and work on NNSLE projects. Last year NNSLE launched a webinar series that highlights sustainability programs from across the nation. You can view past webinars at <http://www.anrep.org/people/initiatives/nnsle/nnsle-webinar-series>.

Alicia Betancourt of Monroe County and Linda Seals of Brevard County are the 2019 NNSLE co-chairs. They will be hosting a video conference call on February 21 at 1:00 pm EST to discuss strategies and objectives for the new year. Participants are encouraged to bring ideas for projects that NNSLE members can help create and that can be used nationally. They will also talk about current projects that need your help, including the National Sustainability Summit in Tampa on April 16-19, revisions to the Sustainable Living Handbook and the Climate Change Handbook, and updating the Living Sustainably eXtension online course. If you are interested in becoming a NNSLE member (it's free!) or just want to learn more during our February call, send an email to Liz Yongue at Yongue-liz@monroecounty-fl.gov.

Linda Seals
Community Resource Development RSA
lseals@ufl.edu

Brevard County Extension
(321) 633-1702

A Rough 2018 for Mid-Panhandle Seafood Industry: Post-Michael

It will be a long time before the memories of Hurricane Michael fade in the mind's eye of many seafood workers in the mid-Florida Panhandle. Most everyone is aware of how destructive the storm surge was around Mexico Beach, but there were also a plethora of smaller, less "news-worthy" communities with seafood-based economies that were devastated. This storm was a record-breaking tropical cyclone

in many respects. People were caught off guard as it continued to strengthen beyond early predictions during its rapid path through the Northern Gulf of Mexico. It was so big that water levels in areas east of center started rising long before it came ashore and stayed up through multiple tidal cycles. Communities that did not feel the massively destructive winds were seeing tides of eight feet above normal. When folks went to bed the night before landfall, they had no idea what terrifying news would

greet them upon hearing that a still-strengthening category 4 hurricane was about to rumble ashore.

It was not long after the wind slackened that folks began looking around and realizing the devastation left behind. Even far inland, where most hurricanes would have lost much of their power, people were reeling. Cotton crops in the path of the storm in North Florida and South Georgia suffered near 100% losses. Peanut crops were also severely impacted just at the time that harvest was beginning. The estimated damage to timber harvests alone were coming in around 1.3 billion dollars for Florida as virtually entire forests were leveled. Even more damage was realized near the coastline where storm surge across the region ranged from 8 to 14 feet above normal water levels; smashing or flooding to total loss.

The seafood industry was hit hard; everyone from producers to dealers, processors, retail markets, restaurants, charter fishing fleets and critical infrastructure like fueling and ice house facilities that service fishing vessels. Governor Scott requested a fisheries disaster declaration from the Federal Government, and on November 1 the Secretary of the Department of Commerce granted the request. This determination provides an opportunity for Congress to appropriate fishery disaster assistance for the new fiscal year, which began in October. To further facilitate recovery efforts in Florida and beyond, the Department of Commerce can look to the Economic Development Administration, which spearheads the Federal government's efforts to

deliver economic assistance and support long-term growth after natural disasters. University of Florida Extension faculty have also been closely engaged in conducting damage assessments to move information up-stream to state and federal assistance efforts.



One specialized segment of the industry that sustained some significant losses was the oyster farming community. Most growers had equipment and a crop of shellfish in the water when the storm arrived. For those who were able to scramble to their leases before the storm and sink floating cages to the bay bottoms, losses of gear were minimal. However, gear that was unable to be submerged was prone to break loose and drift away. Even growers who did sink gear experienced some significant oyster losses due to sediments from churned up water smothering shellfish in a layer of mud.

Marinas, docks and vessels were also hard hit, particularly in Gulf and Bay Counties. Government agencies estimate the number of damaged vessels in these two counties alone to exceed 400. It will take some time for charter boat and commercial fishing operations to rebound. Scallop restoration projects in both St. Joseph Bay and St. Andrews Bay have suffered setbacks, as well. The hurricane has not only devastated coastal Gulf county economically and ecologically, but also geographically. There are two sizable inlets that have now been carved through the St. Joseph Peninsula.

The impacts from this storm will be affecting our regional economies for years to come. Lessons learned by industries as well as individuals can improve our chances to reduce the loss of life and property in the future. The name of the game is "resiliency," both in the spirit of the people who call this place home and in the way we learn to better adapt to what Mother Nature sends our way. For people not living in the heavily impacted area, this may already be a forgotten storm. Believe me though, there are many neighbors still trying to make it... day by day. Hang in there.

Eric Lovestrand
County Extension Director & Sea Grant Agent
elovestrand@ufl.edu
Franklin County Extension
(850) 653-9337

Ray Bodrey
County Extension Director & Sea Grant Agent
rbodrey@ufl.edu
Gulf County
(850) 639-3200

Scott Jackson
Interim County Extension Director & Sea Grant Agent
lsj@ufl.edu

Bay County
(850) 784-6105

International Union of Forestry Research Organization Biannual Conference

The Importance of Engaging Local Communities and Stakeholders to Increase Successful Adoption of New Technologies

Thanks in part to the FANREP Scholarship program, I was able to attend the International Union of Forestry Research Organization Biannual Conference in Christchurch, New Zealand, from September 9-16, 2018. The organization consists of many private forestry research groups from around the world, along with international and American universities. I have been a member of the organization's working group for four years and this was the first time I ever crossed an ocean to visit another country. September was a beautiful month on the south island of New Zealand, as the country was beginning their early spring season.

Three days of the conference focused on networking and professional development for university faculty. All members gave twenty-minute presentations to share successful engagement stories from their local communities. I presented a project we are doing in

other specialists that I hope to collaborate with in the future, creating programs with a larger nationwide impact.

The conference included four field trip days visiting forests around the south island. New Zealand's number one crop is sheep farming. Sheep graze constantly, and we learned about some of the government's complicated issues related to sheep farming. Farmers remove trees to take advantage of sunlight to grow healthy pastures, but tree removal causes issues from soil erosion to monoculture of grass everywhere. Compounding these troubles is the fact that there is an atmospheric black hole over the south island, leading to drought.

During my time at the conference, I saw a lot of the south island and brought back many photographic memories. Thank you, FANREP!



Manatee County (as well as a few other counties in Florida) entitled, "Involving Communities in the release of Biological Controls for Forestry and Agricultural Pests." The majority of other topics were on engaging communities in controlled fires, wicked forestry issues, citizen science projects, and panel sessions to allow everyone to ask very specific questions from the presenters. I was able to bring back some ideas that I can use in future programs. In addition, I met American professors and extension faculty that I have been emailing for years. I was able to connect with



Lisa Hickey
Urban Horticulture Extension Agent II
lisa.hickey@ufl.edu

Manatee County Extension
(941) 722-4524

2018 FANREP AWARDS

Achievement Awards

Early Career Leadership

Lara Milligan – Pinellas County

Mid-Career Leadership

Alicia Bradigan-Betancourt – Monroe County

Career Leadership

No entries

Individual Program Leadership

Ramona Madhosingh-Hector – Pinellas County

Innovative Program

**Nomination by Pete Vergot, Ph.D. – NW District
Extension Director**

Group Submittal: Ray Bodrey, Scott Jackson, Erik Lovestrand, Karen Shudes,
Jennifer Sims, Lindsey Maxwell, Janice Becker, James Moyers

Outstanding 4-H/Youth Devel.

Katherine Clements – Sarasota County

Educational Materials Awards

Promotional Materials

1st Abby Tyrna

2nd Erik Lovestrand

3rd Savannah Barry

Brief Publication

1st Erik Lovestrand

2nd Patrick Troy

3rd Ramona Madhosingh-Hector

Short Publication

1st Lisa Hickey

Long Publication

1st Shelly Johnson

Newsletter

1st Lara Milligan

2nd Lisa Hickey

Series of Articles

No Entries

2018 FANREP AWARDS

Computerized Graphic/Slide Set

1st Shelly Johnson

2nd Lara Milligan

Radio

No Qualified Entries

Video/Video Disk

1st Savannah Barry

2nd Lara Milligan

3rd Lisa Krinsky

Television/Videoconference

1st Savannah Barry

On-line/Distance Courses

No entries

Web Page/Social Media/Apps

1st Savannah Barry

2nd Mark Hostetler

3rd Patrick Troy

Mixed Materials

1st Shelly Johnson

2nd Patrick Troy

Recognition Awards:

Friends of FANREP

Michielle Atherton nominated by Lloyd Singleton

Outstanding Specialist

M. Jennison Kipp Searcy nominated by Holly Abells

Sustainability Award

Okaloosa and Walton Counties nominated by Laura Tiu, Ph.D.

SARE Professional Development

No submittals

Board Position

Officers

2018-2019

President

[Holly Abeels](#)

President Elect

[Theresa Badurek](#)

Secretary

[Abbey Tyrna](#)

Treasurer

[Shelly Krueger](#)

Past President

[Susan Haddock](#)

District Directors

District 1 (Northwest)

[Laura Tiu](#)

District 2 (Northeast)

[BJ Jarvis](#)

District 3 (Central)

[Prissy Fletcher](#)

District 4 (Southwest)

[Lisa Hickey](#)

District 5 (Southeast)

[Ana Zangroniz](#)

http://anrep.ifas.ufl.edu/contact_us.shtml

REMINDER

The ANREP awards for 2019
are due online by February
15th. They can be at:

<http://awards.anrep.org>