



Florida Association of

# FANREP

Natural Resource Extension Professionals

VOLUME: X  
ISSUE: WINTER  
2015

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LINE AT

<http://anrep.ifas.ufl.edu/>

## MESSAGE FROM FANREP PRESIDENT!



### Greetings FANREP Colleagues,

I am indeed very pleased to serve as your President for the 2015-16 term. I say this sincerely because I know of the high standards and dedication that all of you bring to your professional programs and responsibilities. In my previous service as chair of the FANREP awards committee, I thoroughly enjoyed learning of your achievements described in the nominations; even as it was always a struggle to pick the winners from the diversity of our Natural Resource Extension programs. I was also only too glad to provide the poster at the 2015 EPAF to celebrate our FANREP colleagues that won national recognition for their programs.

At our FANREP meeting at the 2015 EPAF I mentioned that I am choosing a theme for my tenure as President. I think there is no bigger issue facing our society than Climate Change. In 2015 I had the opportunity to attend a couple of workshops which focused on the science and responses of Climate Change. At these events I was very impressed by the scope of the programs being implemented.

My purpose for choosing this theme is to expand the capacity of our FANREP membership to educate our communities about Climate Change in all of our disciplines. To this end I am asking

Everyone to contribute to a special edition of this newsletter that will highlight the diverse FANREP programs that are actively engaging our communities on Climate Change. I believe we will all learn from reading entries from our colleagues about how we are engaging our clientele on this topic. In addition, I would like to invite members who do not presently have such programs due to lack of data to submit entries stating the nature of their need. For example, if you are demonstrating proper irrigation management for homeowners, where do you find the data to translate the gallons of water saved to a reduced carbon footprint? To produce this edition I will work with our editor, Rick O'Connor, to produce a template for your use in your entry. This will be coming out soon while ideas are fresh in your mind.

As a follow-up to my proposal, I also want to urge you to consider attending and participating in the 2016 joint ANREP / NACDEP meeting in June. This years theme is "Building a Path to Resiliency".

At this time I would like to extend a heartfelt thanks to our past president, Carrie Stevenson, for her service this year. Those who have already served in a similar role know the endless details and actions required to make the job look easy.

Finally, I want to leave you with this thought. Namely, FANREP will be in the rotation to lead the 2017 EPAF. I will serve on the EPAF board due to being, at that time, past president of FANREP. I understand that I will have some say on future decisions and changes. I invite you to send me your thoughts and suggestions for this future EPAF meeting. I am thinking that possibly the tracks of presentations could be organized by theme and not by professional society. Such a format would highlight the mixing that already exists between us.

I wish you and enjoyable holiday season

Robert Kluson, **FANREP President**

## ABEELS WINS DON SWEAT SEA GRANT AWARD

**Holly Abeels**, Florida Sea Grant agent for Brevard County, was awarded the **2015 Don Sweat Sea Grant Extension Award**.



This award is presented annually to a Florida Sea Grant agent who shows initiative, creativity and leadership in their extension programming.. In her six years with UF/IFAS extension, Holly has concentrated on establishing programs that help protect critical coastal habitats and the area's economy.

One of her most impactful programs is addressing the decreasing water quality in the Indian River Lagoon by placing more filter-feeding oysters into the estuary. To do this, she teamed with the Brevard County Natural Resources Department, the Brevard Zoo, and the University of Central Florida to train 950 homeowners how to raise oysters in their back-yards.



Participants in the oyster gardening program attend a workshop where Holly demonstrates how oysters filter and clean water in the estuary, provide critical habitat to marine life and protect the shoreline against storms. After their orientation, the residents are provided with supplies needed to grow oyster spat off their docks. The oysters grown are relocated to designed restoration sites around the Lagoon. Since the start of the program, 800 gardening sites have been established and more than 170,000 live oysters were returned for placement on oyster reefs.

Holly also formed Space Coast Boating Adventures, an ecotourism business that offers two-hour environmental tours of the Indian River Lagoon. She teaches local fishing guides the principles of environmental interpretation, small business management, and nature tourism. After participating in the training, these fishermen can add an ecotourism option to their trips and possibly attract a larger clientele.

Hollys' constant efforts to better her community have not gone unnoticed by her peers. Cris Wagner, past president of the Space Coast Regional Chapter of the Florida Master Naturalist Program, commented "Holly is one of those rare, dedicated individuals that is incredibly involved with her work. She never hesitates to go above and beyond to support the community in efforts of conservation and education".

# FANREP AWARDS & RECOGNITION



The 2015 FANREP Awards Program Committee is very pleased to announce the winning selections of the 2015 Awards Program. The committee extends their thanks to all who have submitted their educational publications to the awards program. The goal of the FANREP Awards Program is to encourage, support and recognize outstanding natural resource programs.

Special thanks are extended to working members of the Awards Committee who took the time to offer this service for FANREP: Susan Haddock and Lisa Hickey.

## CONGRATULATIONS TO FANREP COLLEAGUES FOR THEIR OUTSTANDING PROGRAMS!

### FANREP Achievement Awards

Early Career Leadership – Susan Haddock (Hillsborough)

Mid Career Leadership – Lynn Barber (Hillsborough)

### FANREP Program Awards

**Innovative Program:** Rick O'Connor (Escambia), Carrie Stevenson (Escambia), Chris Verlinde (Santa Rosa), Libbie Johnson (Escambia), and Blake Thaxton (Santa Rosa)

**Individual Program Leadership:**

**4H/Youth Development Program:** Lara Milligan (Pinellas)

### FANREP Friends of Extension Award

Tommy Thompson, Executive Director of the Florida Outdoor Writers Association

### FANREP Educational Materials Awards

#### Promotional Materials:

**1st** Rick O'Connor (Escambia), Carrie Stevenson (Escambia), Chris Verlinde (Santa Rosa), Libbie Johnson (Escambia), Blake Thaxton (Santa Rosa), Michelle Wood (UF IFAS Communications)

**2nd** Shelia Dunning (Okaloosa)

**3rd** Chris Demers (UF IFAS School of Forest Resources and Conservation)

#### Brief Publications:

**1st** Betty Staugler (Charlotte)

**2nd** Nicole Pinson (Hillsborough)

**3rd** Shelia Dunning (Okaloosa)

THANK YOU TO ALL WHO APPLIED AND CONGRATULATIONS TO ALL OUR WINNERS.

# FANREP AWARDS & RECOGNITION

## CONGRATULATIONS TO FANREP COLLEAGUES FOR THEIR OUTSTANDING PROGRAMS!

### FANREP Educational Materials Awards

#### Short Publication:

- 1st** Holly Abeels (Brevard)
- 2nd** Robert Northrup (Hillsborough)
- 3rd** Lisa Hickey (Manatee)

#### Long Publication:

- 1st** Jiri Huler (School of Forest Resources & Conservation)
- 2nd** Taryn Sudol (Seminole)

#### Newsletter:

- 1st** Taryn Sudol (Seminole)
- 2nd** Lisa Hickey (Manatee)
- 3rd** Nicole Pinson (Hillsborough)

#### Series of Articles :

- 1st** Beth Staugler (Charlotte)
- 2nd** Lynn Barber (Hillsborough),  
Less Harrison (Wakulla), Lara Milligan (Pinellas)

#### Radio:

- 1st** Lynn Barber (Hillsborough), Susan Haddock (Hillsborough)
- 2nd** Lisa Hickey (Manatee)

#### Video/Video Disk:

- 1st** Theresa Badurek (Pinellas)
- 2nd** Holly Ober (Wildlife Ecology and Conservation)
- 3rd** Jane Morse (Pinellas)

#### Mixed Materials:

- 1st** Lisa Hickey (Manatee)
- 2nd** Libby Carnahan (Pinellas)

#### Television/Videoconference:

- 1st** Lynn Barber (Hillsborough)

#### Slide Set/Computerized Graphic Presentation:

- 1st** Theresa Badurek (Pinellas)

#### Computer Software/Application:

#### Web Page:

- 1st** Rick O'Connor (Escambia), Carrie Stevenson (Escambia), Chris Verlinde (Santa Rosa),  
Libbie Johnson (Escambia), Blake Thaxton (Santa Rosa), Michelle Wood (IFAS Comm)
- 2nd** Libby Carnahan (Pinellas)
- 3rd** Lara Milligan (Pinellas), Mary Campbell (Pinellas), Nan Jensen (Pinellas),  
Ramona Madhosingh-Hector (Pinellas), Libby Carnahan (Pinellas), Jean Rogalsky (Pinellas),  
Gregory Plantamura (Pinellas)



THANK YOU TO ALL WHO APPLIED AND CONGRATULATIONS TO ALL OUR WINNERS.

# FANREP AWARDS & RECOGNITION

## CONGRATULATIONS TO FANREP NATIONAL WINNERS OF 2015 ANREP AWARDS



**GOLD AWARD—Promotional Materials**  
**Libby Carnahan** (Pinellas)  
Ranger Naturalist Leadership Program



**GOLD AWARD—Series of Articles**  
**Nicole Pinson** (Hillsborough)  
Arthropod ID of the Month: Hillsborough  
County Master Gardener Newsletter



**GOLD AWARD—Website/Social Media/Online Courses**  
**Lisa Hickey** (Manatee)  
Understanding Coyotes in Florida



**SILVER AWARD—Long Publication**  
**Jiri Huler** (School of Forest Resources and Conservation)  
A Guide to Florida's Common Bark and Ambrosia Beetles



**SILVER AWARD—Short Publication**  
**Theresa Badurek** (Pinellas)  
DIY Composting

THANK YOU TO ALL WHO APPLIED AND CONGRATULATIONS TO ALL OUR WINNERS.



# FANREP AWARDS & RECOGNITION

## CONGRATULATIONS TO FANREP NATIONAL WINNERS OF **2015 ANREP AWARDS**



**BRONZE AWARD—Promotional Materials**  
**Shelia Dunning** (Okaloosa)  
Habitat Rx: Five Steps to a Healthy Watershed



**BRONZE AWARD**  
**Website/Social Media/Online Courses**  
**Jame Cohen** (Marion)  
National Webcast on Best  
Management Practices Enables  
Improved Manure Management  
For Horse Owners and Managers



**ACHIEVEMENT AWARD: Innovative Program**  
**Ken Gioeli** (St. Lucie)  
Invasive Tropical Soda Apple Biological Control Extension Program  
For Ranches in St. Lucie County

THANK YOU TO ALL WHO APPLIED AND CONGRATULATIONS TO ALL OUR WINNERS.

## FOOD (WEB) FOR THOUGHT

Welcome back FANREPer! As I explained in the spring issue my goal for this column is to share with you examples from the discipline of agroecology as it's applied to meet many of our current local, national, and global issues in sustainability and food security. So hopefully you will enjoy my column and it will inspire and foster future collaborations across disciplines that will enhance the impact and scope of your Extension programs.

For this penning, I want to highlight the practice of agroforestry, or the integration of trees in food & fiber production. There are five practices in agroforestry (1) forest farming, (2) alley cropping, (3) silvopasture, (4) riparian buffers, and (5) windbreaks. Research in agroforestry at all levels have documented positive impacts to the three pillars of sustainability: (1) social systems, (2) environmental systems, and (3) economic systems. For example (a) agroforestry practices sustain land resources for agricultural generations to come as well as enhance their quality of life by protecting ambient environments; (b) improve soil/water quality and reduce erosion, non-point pollution and flooding, as well as enhancing land and aquatic habitats for biodiversity; and (c) help landowners to diversify products, markets and farm income, as well as reduce production risks.

Agroforestry demonstrates the holistic and systems levels analysis of agroecology. For example, the multiple benefits of agroforestry represent the concept of emergent property in functional agroecosystems which means the "whole is greater than the sum of its' parts' when it comes to evaluation the value of a specific management practice. In particular, the social perspective of agroforestry is especially aligned with the concepts and principals of the comprehensive definition of agroecology.

Today the understanding of the multi-dimensional role of trees to promote greater sustainability is also being promoted in other applications. Permaculture, for example, represents tree-based applications for food and social design systems. Another important application is urban forestry which is the deliberate integration of trees in urban locations to improve the environment.

In the present age of climate change and global warming, the promotion of the potential for trees for strategies in adaptation and mitigation of the impacts is especially timely. Agroforestry is one such program

for food systems both at the rural and urban levels. At the same time agroforestry is a multi-disciplinary approach that invites participation and expertise from many fields and natural resource Extension. I encourage you to consider such collaboration in your programming. For further information on agroforestry I recommend the following websites:

Center for Agroforestry  
<http://www.centerforagroforestry.org/>  
National Agroforestry Center  
<http://nac.unl.edu/>  
World Agroforestry Center  
<http://www.worldagroforestry.org/>

Robert Kluson  
Ag/NR Extension Agent III  
UF/IFAS Extension Sarasota County  
[rkluson@scgov.net](mailto:rkluson@scgov.net)

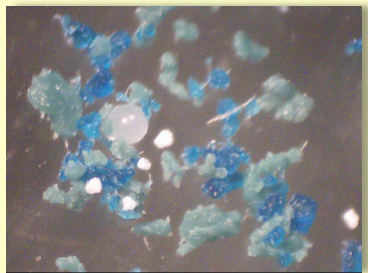


## WHAT SHOULD YOU KNOW ABOUT THE INGREDIENTS IN YOUR TOOTHPASTE?

Most of us are aware that chemicals and medicines need to be kept out of the reach of children. We also know that items that enter the stormwater system can end up in our coastal waters. However, most people probably have no idea that environmentally-dangerous chemicals and microplastics are in products that we use on and in our bodies daily. Because many of these items are not removed by the wastewater treatment process, they are getting into the environment and even our drinking water.



What am I talking about? Take a look on the label of your personal care products... go ahead! Check out the ingredients in your toothpaste, liquid soap, body wash, deodorant, ladies... don't forget your make up products, what do you see? Probably a lot of words that are hard to pronounce but those words need to become part of our vocabulary.



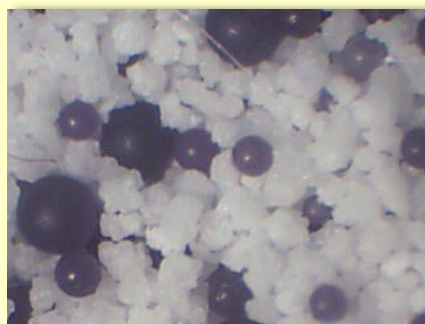
Let's look at **Triclosan**. This is a common ingredient in antibacterial soap and some toothpaste. It binds to solids and accumulates in

(photo: microplastic) sewage sludge and is used as fertilizer. It is an endocrine disruptor and has negatively impacted survival and reproduction in aquatic animals. It has been found in freshwater and marine sediments.

How about **polyethylene**? This is a product found in toothpaste, body wash, and other cleaning products. What is it? In a word... PLASTIC. It is used as a scrubber or exfoliating agent and to make the product sparkle. I filtered one 5-oz tube of toothpaste and estimated about 300,000 pieces of plastic.; all less than 1mm in size. These plastics float and are not filtered out at the treatment plants. They have been found in many bodies of water including the open ocean. These plastics absorb harmful chemicals, like PCB's and PAH's, increasing their concentration when

swallowed by aquatic organisms. Swallowing microplastics also gives small organisms the sensation they are full, so they do not get the nutrients they need. There are many stories of birds and other animals dying after consuming larger pieces of plastic.

Have I peaked your interest? If so check out the "research and resources" section of <http://web.extension.illinois.edu/unusedmeds/>. Scroll down to the bottom and you find their outreach materials. Also check out the household database at <http://householdproducts.nlm.nih.gov/> which allows you to search by ingredient. Please contact Maia McGuire ([mpmcg@ufl.edu](mailto:mpmcg@ufl.edu)) if you are interested in helping develop Extension programs on the topic—you do not have to be a Sea Grant Agent or in a coastal county to be involved!



(photo: microbeads)

**Maia McGuire, UF IFAS St. John County Extension  
Sea Grant Agent  
Email: [mpmcg@ufl.edu](mailto:mpmcg@ufl.edu) Phone: (386) 437-7464**



## NON-NATIVE GREEN PORCELAIN CRAB HERE TO STAY

We've all heard of high-profile exotic species such as green iguanas in South Florida, Muscovy ducks in urban ponds, and pythons in the Everglades but Florida also has many less-well-known species of invaders who have encroached upon our native habitats and wildlife species. One such animal in the coastal aquatic environment is the Green Porcelain Crab (*Petrolisthes armatus*).



The introduction of this species to our waters was very likely facilitated by the release of ballast water from ships who took on water in the crab's native range. Traveling across the ocean to other ports, the release of this ballast water was a release of this crab to a new environment. You might wonder "how would a crab be collected by ballast water when it lives on the bottom of the bay"? The answer... baby crabs are planktonic and freely drift within the water column. The tiny larvae are sucked in by ballast pumps and then relocated to other places in this way. Other exotic species have been established outside of their native range in this manner, including mollusk such as zebra mussels and Asian green mussels.



Porcelain crabs may be distinguished from our other small native crabs by their shiny, dark-green shells and flattened pinchers. They also have bright blue mouth parts that can be seen when

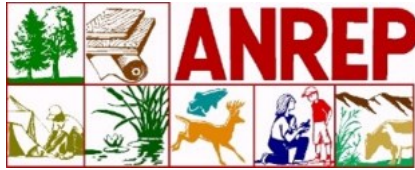
they are feeding. This crab does not eat larger food items but feeds entirely on plankton that it filters from the water. Because of this it could be a potential competitor with native filter feeders such as oysters or mussels. We also have several species of native mud crabs who occupy the same habitat on our oyster reefs so there is the potential for competition here with this green invader.

With no practical method to reduce the number of porcelain crabs in the habitat our best hope is that they co-exist and do not severely impact any of our native species to the point of causing declines in their populations. Quite often it is the unwitting actions of the well-meaning citizens that move plant and animal species outside of their native ranges. It is not always as obvious as someone releasing a pet turtle or snake into the wild but it could be something as simple as launching your boat in a different lake and not checking for clinging plant material. It gets even more complex when dealing with certain infectious diseases for livestock. Simply walking through the stock yard can collect microbes from the soil on your shoes and transport them to other locations where a serious outbreak could occur. Learning more about invasive exotics and ways to avoid spreading them can be done by checking out the resources at "Solutions for Your Life"

<http://solutionsforyourlife.ufl.edu/>

**Erik Lovestrand, UF IFAS Franklin County Extension CED  
Regional Sea Grant Specialist Agent  
Email: [elovestrand@ufl.edu](mailto:elovestrand@ufl.edu) Phone: (850) 653-9337**

## CONFERENCE UPDATE



*Uniting Natural Resources &  
Community Development*



### **National Association of Community Development Professionals**

### **Association of Natural Resource Extension Professionals**

### **Joint Annual Conference**

For the first time, NACDEP and ANREP are teaming up for a Joint Conference this summer—June 26-29, 2016. The conference will be held at the Sheraton Hotel in beautiful Burlington VT. Between our memberships we anticipate over 350 attendees, providing an excellent opportunity to broaden your Extension Network, presenting to your peers, and learn from an expanded menu. The Burlington location features an impressive diversity of both established and new, innovative and best practice programs. From economic development, forestry, water quality, housing, local food, social justice, placemaking, environmental education, arts and culture, sustainability, as well as public and private initiatives this location as it all.



### **Building a Path to Resiliency: Uniting Natural Resources & Community Development**

**Burlington Vermont  
June 26-29, 2016**

#### **PLANNED “TRACKS” FOR PRESENTATIONS**

- Community Development
- Climate Change
- Community Resilience and Disaster Preparedness
- Economic Development
- Environmental Education
- Energy
- Forestry
- Fisheries
- Food Systems
- Local Government Education
- Land Use and Community Planning
- Leadership and Civic Engagement
- Programming with Diverse Audiences
- Placemaking and Physical Design
- Program Evaluation
- Recreation
- Range Management
- Technology Tools and Techniques
- Tourism
- Water Quality and Quantity
- Wildlife Management
- Youth Programming

**For More Information on the ANREP/NACDEP Joint Conference visit**

<http://www.nacdep.net/2016-anrep-nacdep-conference>

## IN MEMORIAM

### GEOFF WALLAT-FLORIDA SEA GRANT - TAYLOR COUNTY

On November 19, 2015 we lost a good one... Geoff Wallat past away after a brief illness. They say the good ones leave us too soon—this was certainly the case with Geoff.



Geoff earned his bachelors degree in aquaculture and fishery technology from the University of Rhode Island. He completed his masters in fisheries at the University of Florida and was close to completing his doctorate in aquaculture from UF.

Geoff spent 25 years working with private and public aquaculture programs and research before joining UF/IFAS Extension. Laura Tiu, a close friend and colleague for many years, mentioned that many of the yellow perch fingerling production techniques he helped developed are still in use by the industry today.

Geoff joined Florida Sea Grant in 2012 as part of the Taylor County Extension team. His program focus was on fisheries and aquaculture where he worked closely with fishermen on local issues, such as scallops, but his biggest impact was with the artificial reef program there. Geoff worked with the local artificial reef leaders to secure funding to develop and deploy two new artificial reef projects on Buckeye Reef off of Taylor County. Not only was he involved in the deployment but he was going to work with the community to assess the economic impact of these reefs.



And then there were the kids... Geoff was very active with the youth in Taylor County working with 8th graders on a variety of marine related topics trying to foster an interest in science with them.

As a member of the Sea Grant team Geoff's laid back style and dry sense of humor were a draw. He was great to be around and he will be sorely missed.

He is survived by his wife Christi, his son Matthew Thomas, and his daughter Lauren Elizabeth.





## NATURAL RESOURCE SPECIALIST SPOTLIGHT

**D**r. Charles “Chuck” Adams is a professor with the UF/IFAS Food and Resource Economics Department as well as a marine economics specialist with Florida Sea Grant.

Dr. Adams is native Texan receiving both his B.S. in Fisheries Science and his M.S. in Agricultural Economics from Texas A&M University. He traveled to the other side of the Gulf of Mexico to receive his Ph.D. in Food and Resource Economics from the University of Florida.

Chuck’s areas of specialty include fisheries management analysis, marine aquaculture financial analysis, economic impact analysis of marine industries, and seafood demand analysis.

His extension work centers on the socio-economic contributions and impacts of commercial and recreational fisheries, seafood, aquaculture, artificial reefs and other coastal resources in the southeastern United States.

Dr. Adams has enhanced Florida Sea Grant’s fisheries extension programs through his technical expertise, institutional knowledge, and leadership. He has repeatedly demonstrated his ability to deliver meaningful and impactful Extension programs, which contribute to Florida being recognized as one of the top Sea Grant programs in the country. Dr. Adams is always



willing to assist agents to ensure their programs meet the same level of quality as his own work. His guidance, leadership and commitment to quality Extension programs earned him the title **FANREP Outstanding Specialist** for 2015.

Dr. Charles Adams, Marine Economist Florida Sea Grant  
UF/IFAS Food Resource and Economics Department  
Email: [cmadams@ufl.edu](mailto:cmadams@ufl.edu) Tel: (352) 392-3646





## COUNTY FACULTY SPOTLIGHT

**S**helly Krueger received her B.S. in Science, Technology, and Culture from Georgia Tech and her M.S. in Marine Science from Savannah State University.

Shelly was a 2009 Knauss Marine Policy Fellow and spent a year in Washington DC with the NOAA National Marine Fisheries Service.

Since starting her career with the University of Florida IFAS Extension in Monroe County, Shelly has been developing several programs to meet the needs of the Florida Keys community. In 2014, the Monroe County Extension received funding from the Environmental Protection Agency to begin program development for the Florida Keys Water Watch—a community based volunteer water quality monitoring program. At a 4-hour workshop, FKWW volunteers are trained to monitor a coastal waterbody of their choice for dissolved oxygen, pH, salinity, and temperature. The program is modeled upon, and in partnership with, the Georgia Adopt-a-Stream program. All volunteer data are entered into the Georgia Department of Natural Resource Water Quality Database. Currently 84 people have been trained and volunteers are performing monthly water quality monitoring at 39 sites from Key West to Key Largo.



Shelly is also Co-Pi with the Florida Fish and Wildlife Conservation and Old Dominion University on the EPA grant **“Scaling up Sponge Community Restoration in South Florida: It’s Efficacy and Ecosystem Implications.”**

This is a 3-year grant where Shelly provides the education and outreach component. She organizes community volunteer events for sponge restoration and learning about the life history of these very important filter feeders.

She has had a fun-filled 2015 assisting local commercial fishermen with the 2-day Florida Keys Seafood Conference in Key Largo, completing the National Sea Grant Academy, and serving as the chair for the Gulf of Mexico Fishery Management Council Coral Advisory Panel.

Shelly Kreuger, Florida Sea Grant, UF/ IFAS Monroe County Extension  
1100 Simonton Street, #2-260, Key West FL 33040  
Email: shellykrueger@ufl.edu (305) 292-4502

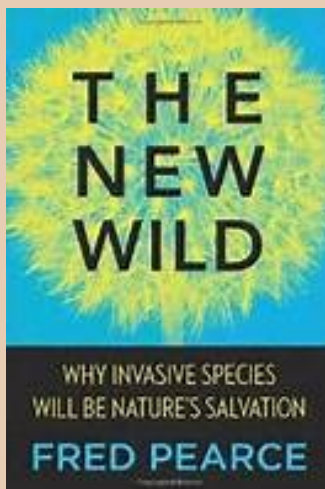
### BOOKS ON NATURAL HISTORY

In this edition we are highlighting books that can enlighten us on subjects and topics in natural resources. Here we highlight two books we think are worth a look. The New Wild and The Forest Unseen.

**The New Wild** by environmental journalist **Fred Pearce** adds an interesting twist to the invasive species issue. We have all been taught that “aliens” from other parts of the world that begin to grow aggressively in local systems are invasive and could cause environmental or economic issues—thus need to be controlled or eradicated. Though Pearce does not disagree on this for some aliens, he does not agree on all.

This book gives accounts of where aliens have actually been life savers in the sense that disrupted ecosystems by humans are recolonized by new species thus “saving nature”. He suggests that in some cases their numbers would not explode had it not been for something we had done to the environment to allow it. In a sense, many of these accounts are natural selection playing out.

Again, he does not agree that this is case with all alien species but it is for some. It is a very interesting and thought provoking read.

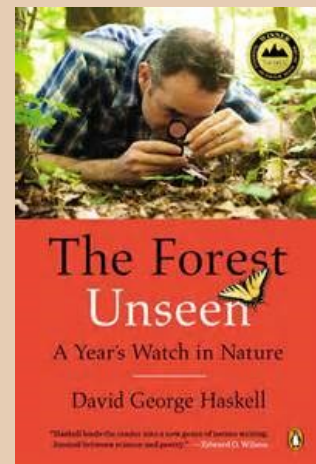


**The Forest Unseen** is an interesting look at life within a forest from a perspective that most have not taken the time to explore—from the forest floor—and on the ground... from the world of the small.

In this book **Dr. David Haskell**, professor of biology at the University of the South in Sewanee TN, selects one square meter of forest floor on the campus of Sewanee, in the Cumberland Plateau region, and records all that he observes. He spends hours, much of the time on his stomach, observing all of the interactions of small life on the forest floor—how they interact with each other—and how they interact with larger life within the system. Dr. Haskell said he learned two important things during this project.

- (1) Much of the action within a forest is occurring with the small life in the leaf litter.
- (2) People need to slow down, pay attention, and let their senses reconnect with nature.

This book won the 2012 National Outdoor Book Award.



# FANREP MEMBERSHIP UPDATES

Theresa Badurek, Membership Chair

## FANREP MEMBERSHIP UPDATE

### 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.

**Reminder**

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)	Amy Morie
District 3 (Central)	Lloyd Singleton
District 4 (South Central)	Libby Carnahan
District 5 (South)	Shelly Kreuger

### ***Committee***

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### ***Chairs***

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