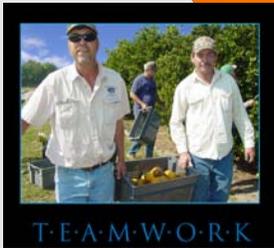


Citrus Leaves

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faculty, staff and friends
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Hold on ... it's Hurricane season

CREC IN COLOR



Be sure to check out this month's CREC IN COLOR - *Teamwork!* It highlights the hard work our grove crew does every day!

2006 IMAGE Awards Program

Congratulations to our CREC faculty!!!

GOLD WINNERS

- Florida Grower:
Parsons on Citrus
Written Word - Articles
Dr. Larry Parsons
- Reclaimed Water - Exhibit
Dr. Larry Parsons
- Nutritional Deficiencies and
HLB/Citrus Greening
Educational Materials
Drs. Pete Timmer, Ron Brlansky,
Michael Rogers
- Citrus Rootstock Guide -
Educational Materials
Dr. Bill Castle
- Using Trade Journal
Written Word - Articles
Dr. Stephen Futch

The 2007 hurricane season started early when Tropical Storm Andrea arrived three weeks ahead of the official first day. Tropical Storm Barry has come and gone, as well. The forecasters are likely safe predicting a busy hurricane season. So, batten down the hatches, buy the bottled water, and hold on for the next six months. Above average activity is expected with 14 named storms, seven hurricanes, with three of Category 3 or higher.

It's business as usual for most of CREC staff and faculty, as "holding on"

has been required numerous times in the past few years. However, with all the new employees, plus it never hurts to have a reminder or two, here are a few tips just in case.

Normally, there is plenty of time to prepare for a hurricane. Use this time to get your home, automobiles, and families ready. In fact, now is a good time to purchase items such as non-perishable food, bottled water, pet food, etc. (For a complete shopping list, go to <http://www.polk-county.net/HurricaneExpo/forms/HurrKitShop.pdf>)

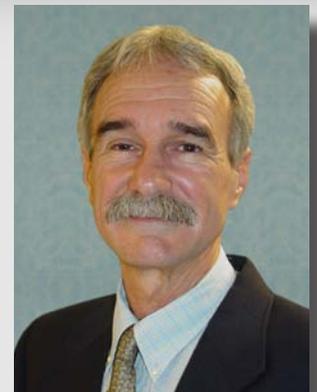
This is also the perfect time to give supervisors current telephone numbers and addresses. This information is used to contact employees before and after an emergency.

See Hurricane on page 2

CREC Faculty Member Selected as APS Fellow

Dr. James (Jim) H. Graham has been named a Fellow of the American Phytopathological Society.

This award is presented to only .25 percent of the active membership of the society each year. Initially, he worked on soil-borne organisms such as Phytophthora and developed assay procedures for these pathogens and determined their affects on yields of citrus. His work demonstrated that a new species for Florida citrus, *P. palmivora*, was responsible for epidemics of brown rot of fruit, attacked roots of normally resistant rootstocks, and caused a serious tree decline in association with the root weevil, *Diaprepes*. Graham demonstrated that normally beneficial, soil-borne mycorrhizal fungi could become parasitic when plants had adequate phosphorus.



See Graham on page 3

In case of an approaching hurricane, Dr. Harold Browning, Center Director, will make the decision to activate personnel. Key personnel have already been identified.

But, everyone should unplug and move computers away from windows and cover them with plastic. Computer files should be backed up on the server, and ISD will provide storage for portable hard drives. Finally, a copy of vital CREC files will be stored in a secure location.

Although the CREC does not have a building that qualifies as a Public Shelter, employees who live in mobile homes may stay at the Ben Hill Griffin, Jr. Citrus Hall during the actual hurricane.

Those employees and their family members must bring their own food and supplies. Again, this is not for the public.

For employees' safety, immediately following a hurricane, the CREC will be closed to everyone except essential personnel. Please do not come to the Center unless notified. Signs will be posted on all the doors and in other visible locations as to the safety of the building.

Employees may receive emergency notification from the CREC in these ways:

1. Telephonically;
2. On television – look for information with other openings and closings such as schools and other government agencies;
3. In the newspaper;
4. On the radio;
5. On the CREC voice mail (863) 956-3421. (Please make note of

this number.)

Supervisors will attempt to contact their staff if necessary. However, it is important that staff members be proactive in finding out information, as well. The CREC voice message will be updated as new information becomes available. (Usually, but not always, the CREC follows the recommendations of the Polk County Public Schools. If the schools are open, the Center usually is, and if the schools are closed, the Center is usually closed, as well.)

**For more info,
check out the
Hurricane Awareness
Board in the Admin
Building near the
Mail Room.**

Hurricane Terms To Know

Advisory: Advisory messages are issued by the National Hurricane Center, giving information on all tropical depressions, tropical storms, and hurricanes at midnight, 6 a.m., noon, and 6 p.m. These advisories are supplemented at three-hour intervals when landfall is likely within 24 hours.

Tropical Storm Watch: A tropical storm is similar, but smaller than a hurricane. Winds associated with these storms are less than 74 mph, but can still cause widespread damage and flooding. Tropical storm watches are made for specific coastal areas where tropical storm conditions pose possible threats within 36 hours.

Tropical Storm Warning: This warning means that tropical

storm conditions, including possible sustained winds of 39-73 mph are expected in specific coastal areas within 24 hours.

Hurricane Watch: These watches are made for specific coastal areas. These are not warnings. These watches mean that a hurricane is close enough for everyone to listen to advisories and be prepared to take precautionary measures. Watches are usually issued 24-36 hours prior to landfall.

Hurricane Warning: This warning means that a hurricane is close enough to a specific coastal area that precautionary measures must be taken immediately. These warnings are usually issued 24 hours prior to landfall. However, if the hurricane's path is unusual, it may only be a few hours before the warning is issued prior to landfall.

HURRICANE SAFFIR-SIMPSON SCALE

Category	Wind Speed	Storm Surge	Damage
Tropical Storm	35 – 75 mph		
Category 1	74 – 95 mph	4 – 5 feet	Minimal
Category 2	96 – 110 mph	6 – 8 feet	Moderate
Category 3	111 – 130 mph	9 – 12 feet	Extensive
Category 4	131 – 155 mph	13 – 18 feet	Extreme
Category 5	156 mph +	18 feet +	Catastrophic

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Graham, continued from page 1

When citrus canker was introduced into Florida, he investigated the survival, epidemiology and strain relationships in the bacteria that attack citrus. His research showed that citrus bacterial spot was caused by a weak pathogen and only affected nurseries resulting in discontinuation of the eradication program for that disease. His work with Tim Gottwald demonstrated the need to remove trees exposed to canker in larger areas to have any hope of eradicating that disease. After a series of hurricanes made eradication impossible, he developed programs for management of the disease.

This award will be presented at the Society's national meeting in San Diego in July.

CREC Releases Fall Schedule of Courses

FOS 5561, Citrus Processing Technology will be held Aug. 23 – Dec. 11 on Tuesdays from 4 until 7:30 p.m. and will be taught by Drs. Jose Reyes and Renee M. Goodrich. Description:

This three-credit course is designed for advanced undergraduate or graduate level students. Course topics include: citrus processing operations (extraction, finishing, pasteurization, evaporation, etc.); product quality (solids, acid, color, etc.); microbiology (pathogen and spoilage microorganisms, HACCP, etc.); chemical and biochemical changes (enzyme activity and inactivation); by-products (essential oils, cattle feed, etc.). The prerequisite is an undergraduate course in food processing.

HOS 6545, Citriculture I, is the second course offered. This three hour credit course focuses on the regulation of citrus vegetative growth including climatic, physiological, and cultural factors. The three credit course will be taught by Dr. Gene Albrigo, professor of Horticulture Science, on Wednesday evenings (time to be determined). The prerequisites are FRC 3212 and 4223, HOS 5544 or equivalent.

These courses are part of the UF continuing education program and are open to graduate students and anyone with the prerequisite courses listed. For more information, please contact Anita Whitaker at the UF, CREC at 863-956-1151.

Polk County Board of County Commissioners' Meeting a Success!



The Polk County Board of County Commissioners' Town Hall Meeting was held here May 17. Approximately 200 Lake Alfred residents attended the meeting to discuss issues pertaining to the community. Numerous positive comments were heard concerning the Ben Hill Griffin, Jr. Citrus Hall and the CREC facilities overall. Thanks to everyone who made this function a success.



He's Back!

Dr. Paul Ling has returned to the Center after an eight year absence! He will work with the Plant Improvement team as a Senior Research Manager. Prior to leaving, Dr. Ling was employed here for seven years working on his M.S. and Ph.D. He is very excited to be back at the Center and is ready to tackle new challenges. Welcome back Dr. Ling!



VIP Visit

Dr. Robert Krueger, second from left, discusses citrus germplasm issues with his hosts (from left) Drs. Fred Gmitter, Bill Castle and Jude Grosser. Krueger is the curator of the USDA National Clonal Germplasm Repository for Citrus and Dates in Riverside, Calif., and visited the CREC last month.

Citrus Leaves welcomes story ideas. Please contact Christen Taylor, Editor, at ext. 1248 or e-mail at chris29@ufl.edu.

NEW FACES!



Jamie Yates - Program Assistant

Jamie Yates, who recently graduated from Florida Southern College with a bachelor's degree in citrus, is now working for Drs. Michael Rogers and Tim Spann. Her research will focus on canker and greening extension.

Jamie enjoys reading, spending time outside, and participating in church activities. Welcome to the Center, Jamie!

Dr. Joe Mari Maja - Post Doc

Joe Mari, a new Post Doc with a Ph.D in Information Science, is keeping busy with his research at the Center. He is working with Dr. Reza Ehsani on developing new soil and plant sensors and advance computer algorithms for applications in precision management and harvesting of a citrus production system.

He currently lives in Lakeland and enjoys playing basketball and ping pong during his free time.



Dr. Juan Carlos Melgar - Post Doc

Dr. Juan Carlos Melgar recently joined Dr. Jim Syvertsen's group as a Post Doc working on drought stress and mechanical harvesting of citrus trees. Juan Carlos is originally from southern Spain and finished his Ph.D. in 2006 at the University of Cordoba working on stress physiology of olive trees. He was a visiting Ph.D. student here at CREC during the summer of 2003 researching comparative physiology of citrus and olive trees. Juan Carlos is single and lives in Winter Haven.



Janet Li - Program Assistant

Let's welcome another new face at the Center! Janet Li, Program Assistant for Dr. Reza Ehsani and Paul Weikel's wife, enjoys cooking, singing, going to the beach, and loving up on her cat, Tiger.

She recently graduated from UF with a B.S. in Business Administration with a concentration in Marketing.



Dr. Manjul Dutt - Post Doc

Dr. Manjul Dutt, who has been at the Center since December, currently works in Dr. Jude Grosser's lab focusing on cloning new genes that provide disease resistance against canker and greening.

His hobbies include orchid breeding, photography and numismatics (the scientific study of coins).



Dr. Celine Jouquand ep Bousquet - Post Doc

Be sure to welcome Dr. Celine Jouquand ep Bousquet, a new Post Doc from France, who recently joined Dr. Russ Rouseff's research team. She is finishing up a USDA grant on off-flavors produced from thermophilic bacteria.

The newlywed lives in Tampa with her husband and enjoys reading and do it yourself projects.



WELCOME!



Lilia Calheiros De Oliveria - Undergraduate Student

Lilia Oliveria, a student in Dr. Russ Rouseff's lab, recently joined the CREC team! She is here from northeast Brazil for three months working on a practicum involving tropical fruit flavors. She is pursuing an undergraduate degree in food engineering and resides at the campus dorms.

Lilia enjoys music, the beach and swimming.



2007 CREC SPRING PICNIC



Good News ...

SHE'S HERE!

Let's welcome the newest edition to the CREC family! Say hello to Yasheeta, daughter of Rao and Jaya!



MERIT SCHOLAR - UF BOUND!



Santa Fe Catholic High School's salutatorian, Melinda Rose Grosser, daughter of Dr. and Mrs. Jude Grosser, was selected as a National Merit Scholar and received a \$2,500 scholarship. Twenty students in Polk County were selected as finalists, and nine of them were named scholars. This award is chosen by a

committee who reviews various characteristics of the finalists' academic record. She plans to attend UF and said it was an honor to be selected as a scholar. "It felt good to have all the hard work pay off and it helps my parents," Grosser said. Way to go, Melinda!

A JOB WELL DONE!

Naresh Pai, (middle) former student working with Dr. Masoud Salyani graduated from UF in May. Naresh received an M.S. degree in mechanical engineering and agricultural and biological engineering. He is currently working with Dr. Reza Ehsani assisting his Post Docs whenever help is necessary. His future research consists of testing the efficiency of windbreaks in agriculture. Naresh would like to continue working in engineering research, preferably in applied automation area. We're so proud of you Naresh!



ANOTHER GATOR ALUMNI!

Lily Carole Kender, daughter of Dr. Walter, Professor Emeritus, and Mrs. Kender, graduated from the University of Florida May 5. Lily received a BS degree with Honors from the Warrington College of Business Administration majoring in Economics. She is currently employed by Sun Trust in Orlando.



CONGRATULATIONS GRADUATE!

Shelly Jones' son, Corey, graduated from Winter Haven High School on May 22, 2007. He received a music scholarship and will attend Stetson University in the fall as a music major. Congratulations on graduating and good luck in your future endeavors!

BREAKING NEWS!

The Florida State Horticultural Society recently announced the election of new officers. The 2007/08 president is Dr. Jim Syvertsen, professor of plant physiology, CREC. For a complete listing of the officers, see the CREC website.

SCIENCE FAIR WINNERS

Congratulations to Molly, Dr. Jude Grosser's daughter; Clint, Dr. Bill Dawson's son; David, Dr. Steve Futch's son; and Gabby, Lorrie Friedrich's daughter for their superior accomplishments in the recent state science fair.



David Futch, (pictured left) won a second place special award at the Intel International Science and Engineering Fair. His project was titled "Augmenting Habitat for Drymarchon coralis, a Threatened Species." Drymarchon coralis is the indigo snake that is found in many locations in Florida. The fair, recently held in Albuquerque, had 1,512 students representing 44 nations. David is a rising senior at Winter Haven High School and was one of two students from Polk County to attend the fair this year.



Gaby Ibarra, (pictured left) daughter of Lorrie Friedrich, Dr. Michelle Danyluk's lab, project goal was to develop a healthier cola that tasted comparable to Coca-Cola. Gaby made her own without using phosphoric acid (causes leaching of calcium from bones), and 25 percent less sugar (decrease obesity and tooth decay). She added a calcium additive in place of caffeine. Great job!

BEAUTY SCHOOL GRADUATE

Nicole Smith, daughter of Janice and Virgil Stewart, recently graduated from Travis Career Center as an esthetician and nail care specialist.

Nicole formerly worked as an OPS Lab Assistant for Dr. Herb Nigg. She plans to open a beauty shop in the Winter Haven area.



CLASS OF 2007!

Tauni Combee, granddaughter of Virgil and Janice Stewart, recently graduated from Auburndale High School.

She will attend Polk Community College to pursue a career in Nursing. She is the daughter of Jim Combee, formerly of the Maintenance Department, and Betti Kelley, formerly of the Human Resources Department.

