



Dr. Harold W. Browning, Center Director
UF/IFAS Citrus Research & Education Center
700 Experiment Station Road
Lake Alfred, FL 33850-2299
Tel. (863) 956-1151
Fax (863) 956-4631

Color pdf of
Citrus Leaves
www.crec.ifas.ufl.edu

Citrus Leaves

September 2005

UF/IFAS Citrus Research and Education Center - News and Information

Volume 23, No. 9

In This Issue

Citrus Canker Training.....1
Citrus Greening.....1
Friday, Sept 16: Meet CREC's
Postdocs, Visiting and Ph.D
Scientists "Posters and Pastries" 1
Citrus Canker Resources.....2
Decontamination Training2
Food Tanker Workshop2
Packinghouse Day.....3
Paul Weikel, Webmaster.....4
From the Library by M. Alden.....4
Plants and People in Space?.....5
Citrus Heritage in Bartow5
Setting up Citrus in Balm.....6
Dr. Stuart in the Amazon.....6
News Around CREC:
Good Deeds, Family News,
Welcome and Farewell
Manuscripts Submitted to the
Publications Committee.....7
Calendar8

Everyone: provide your supervisor or Word Processing with current emergency contact information in case of a hurricane or other disaster.

State vehicle drivers: submit new driver's authorization forms (available in the Mailroom) to Perry Love in Shipping/Receiving.

Citrus Leaves

is the monthly newsletter for employees and friends of CREC.

Citrus Leaves welcomes your contributions, suggestions and corrections. Editor, Monica Lewandowski; E-mail mmlw@crec.ifas.ufl.edu; Ext. 1233. Writer, Meredith Jean Morton. Photography/graphics, Gretchen Baut; Production/Distribution: Word Processing, Barbara Thompson, Supervisor; Kathy Snyder, Karla Flynn and Linda Murphy; Customer Service, Kathy Witherington and Nancy Burke.

Citrus Canker Very Close



Dr. Pete Timmer (above) presented a training on how to survey for and identify citrus canker symptoms. If you missed it, the training is also available on DVD (see Dr. Timmer). Color pdf files of citrus canker symptoms (as well as diseases with similar symptoms), and a key to assist in identifying symptoms can be printed from the "Citrus Canker Resources" link on the CREC website.

With two citrus canker finds within 10 miles from CREC, Center Director Dr. Harold Browning reminded employees what is at stake should citrus canker be found at CREC and all our citrus destroyed. "We could stand to lose everything - decades of research, unique and irreplaceable material, and the ability to conduct research and education on citrus," Dr. Browning told the CREC audience at a citrus canker training session on Aug. 30.

"If you're not personally decontaminating, you are breaking the law," he added, referring to the state's mandatory decontamination of personnel, vehicles and equipment upon entering and leaving a citrus greenhouse or grove. Dr. Browning also said that see Citrus Canker Very Close, p. 2

If you suspect citrus canker . . .

Tag the tree or location.
DO NOT COLLECT A SAMPLE.

DO NOT TRANSPORT A
SUSPECT SAMPLE.

Notify your supervisor or Dr.
Timmer to arrange an inspection.

Devastating Citrus Greening Disease in South Florida

Citrus greening, a devastating bacterial disease that many consider the worst disease of citrus, was confirmed in early September in South Florida by the USDA and the Florida Dept. of Agriculture. Diseased trees decline rapidly, become unproductive and die in as little as a few years.

According to a Florida Dept. of Agriculture press release, this is the first detection of citrus greening in the U.S.

The disease is caused by bacteria in the see Citrus Greening, p. 4

- All are invited -

Friday, Sept. 16, 2005

Ben Hill Griffin Jr. Citrus Hall
10 am - 12 noon

Meet CREC's
Postdocs, Visiting Scientists
and Ph.D. Scientists!

"Posters and Pastries"
- A Research Symposium -

Thirty of CREC's postdocs, visiting and other Ph.D. scientists will be on hand with scientific posters and available to answer questions. This is a great opportunity to interact with others and learn about current projects in an informal setting.

Come on over and meet our scientists!

All personnel are encouraged to attend; the event is also open to the public.

Coffee, orange juice, donuts, muffins and other goodies will be served.



Center Director Dr. Harold Browning addressed the CREC community at a citrus canker training session on Aug. 30, stressing the importance of citrus decontamination. When citrus canker is found in Florida, all citrus within 1900 ft. is destroyed, and the area placed under a minimum two-year quarantine. This would be devastating to CREC.

Citrus Canker Very Close . . .from p. 1

Florida Dept. of Agriculture inspectors are routinely monitor compliance, watching workers through binoculars and citing those not following proper decontamination procedures.

Last month, citrus canker was found in groves at the UF/IFAS Indian River Research and Education Center in Fort Pierce, requiring the destruction of all their citrus. "One hundred acres - all of IRREC's [citrus] research, is gone," Dr Browning

Citrus canker is a bacterial disease that causes lesions on the fruit, leaves and stems, fruit and leaf drop, and a general decline in tree health. The state of Florida has a mandatory eradication program. Currently, over 54,000 acres of citrus in Florida have been destroyed. a bacterial disease that infects citrus, causing fruit and leaf drop.

CREC, USDA and other scientists are conducting research on treatments and management strategies, as well as the development of resistant varieties. However, a safe, effective treatment is not in the near future. Currently, the strategy in Florida is to eradicate the disease.

Employees are reminded that clothing, skin, hats as well as equipment, tools and vehicles must be decontaminated before

CITRUS CANKER RESOURCES

Photos of citrus canker symptoms and similar diseases, handouts, key to identifying citrus canker

www.crec.ifas.ufl.edu - click on the Citrus Canker Resources link on the right side

Citrus canker decontam/disinfection guidelines, UF/IFAS Citrus Pest Management Guide:
edis.ifas.ufl.edu/CG040

FL Dept. of Agriculture & Consumer Services:
doacs.state.fl.us/canker

Florida Citrus Canker Eradication Program Helpline:
Miami-Dade / Broward / Palm Beach / Monroe counties:
Tel. (800) 850-3781

All other Florida counties: Tel. (800) 282-5153

UF/IFAS Citrus Canker Extension website:
canker.ifas.ufl.edu

Citrus Canker: The Pathogen and Its Impact

www.apsnet.org/online/feature/citruscanker/
Tim R. Gottwald, USDA-ARS Ft. Pierce; James H. Graham, UF/IFAS CREC; and Tim S. Schubert, FDACS/DPI Gainesville. 2002.

entering and leaving groves/greenhouses. Citrus canker decontaminant for personnel and clothing is available near the CREC switchboard. Questions can be directed to your supervisor or Dr. Timmer. Online resources are listed in the box above.

Decontamination

Nick Ergun (left) from the Florida Dept. of Agriculture and Consumer Services Division of Plant Industry in Fort Pierce conducted a citrus canker decontamination workshop as part of the 44th Annual Citrus Packinghouse Day on Sept. 1 at CREC.

Left: Ergun demonstrates decontamination of personnel. Right: Sherrie Buchanon participates in a personnel decontamination exercise. *Photos by Gretchen Baut. More Citrus Packinghouse Day photos on page 2.*



Food Tanker Sanitation Workshop



Over 60 people attended a food tanker sanitation workshop at CREC on August 24. The workshop covered food microbiology, sanitation of food tankers, inspections, regulatory issues and other topics related to tanker sanitation for the transport of juices, dairy products and beverages. The afternoon session included a panel discussion of instructors, inspectors and industry representatives (above). Speakers included Dr. Renée Goodrich, workshop organizer (CREC), Dr. Keith Schneider (UF/IFAS Food Science and Human Nutrition - Gainesville), Dr. Dan King (Florida Citrus Processors Assoc.), Paul Winniczuk (CREC), and Dr. R. Schmidt (UF/IFAS Food Science and Human Nutrition - Gainesville).



Over 60 citrus growers from Brazil visited Florida to meet with CREC scientists on Aug. 23. Above, Dr. Natalia Peres (UF/IFAS Gulf Coast REC - Balm) and Dr. Jim Graham (CREC) answer questions from the audience. The group also attended the Citrus Expo in Fort Myers on Aug 24-25.

Scenes From The 44th Annual Citrus Packinghouse Day

Last year's Citrus Packinghouse Day was cancelled as Florida prepared for the arrival of Hurricane Frances. This year's event, with seminars and exhibitors

for Florida's fresh citrus industry, proceeded on schedule. Above left: **Richard Kinney** of the Florida Citrus Packers Association, presided over the event. Center: **Dr. Bill Miller** discussed advantages of color grading of fruit prior to degreening. Dr. Miller also serves as the exhibits coordinator for Packinghouse Day. **Dr. Renée Goodrich** is the local arrangements coordinator, and **Dr. Mark Ritenour** from the UF/IFAS Indian River Research & Education Ctr. in Fort Pierce is the program coordinator. Far right: **Juan Muniz** from Primus Labs in Santa Maria, Calif., presented the keynote address, "How to Pass a Food Safety Audit."



Above left: **Dr. Gene Albrigo** answers questions after his presentation, "Prospects for Good Fruit Quality This Year." Above right, Ledger reporter **Kevin Bouffard** (left) speaks with **Mark Estes** from the Florida Dept. of Agric. and Consumer Services, after his presentation on "Citrus Canker - Update on Eradication Progress and Regulatory Issues."

Estes reported that before last year's hurricanes, 15,000+ acres of commercial citrus had been eradicated; since August 2004, there have been over 46,000 acres of citrus destroyed, attributed to the spread of the disease by the hurricanes. Far right, Dr. Tom Burks, UF/IFAS Agricultural and Biological Engineering, discussed research progress on a mechanical harvesting system for fresh citrus. He showed video of a robotic harvesting arm in action (above right). *Photos by Gretchen Baut and Monica Lewandowski.*

Near left photo, left to right: **Dr. Jan Narcisco** (USDA-ARS Winter Haven), who presented, "Sanitizers in Packinghouses" and a workshop; **Chris Ference** (USDA-ARS) works for Dr. Narcisco, and **Dr. Mark Ritenour**.



Above, center photo: UF/IFAS CREC Professors Emeritus **Dr. Adair Wheaton** and **Dr. Jodie Whitney** catch up on Packinghouse Day events.

Above right, **David Hall** (FreshMark Corp.) and **Dr. Mohamed Ismail**, Courtesy Professor Emeritus and retired FDOC researcher, take in the event's activities. Lower left, Hall speaks with **Dr. Eldon Brown**, retired FDOC postharvest plant pathologist. Lower right, vendors for the fresh citrus industry set up exhibits in the Packinghouse. In his opening remarks to the Packinghouse Day audience, Center Director **Dr. Harold Browning** noted the absence of the Florida Department of Citrus in the area of fresh fruit and postharvest, which had been a part of the Department's research program since the 1940s. Sadly, this is no longer a part of the FDOC's research today.



Paul Weikel New CREC Webmaster

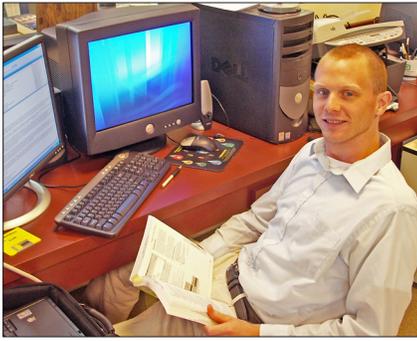


Photo by G. Bault

Paul Weikel can be found in the CREC library. His e-mail address is weikelp@crec.ifas.ufl.edu, and he welcomes suggestions and website project ideas.

Paul Weikel joined CREC as our new website manager in August.

A native of Indiana, Paul worked for University of Notre Dame's Mendoza College of Business IT Group in graphics artist/technical support. He also worked at the Fitzpatrick Multimedia lab as a film class consultant.

Prior to moving to Florida, Paul lived in Wyoming's Big Horn Mountains and the Chihuahua Desert near Carlsbad, New Mexico.

"This wanderlust for longitudes was imparted onto me after high school graduation," Paul writes. "After years of saving, I 'skipped' my graduation ceremony and flew to Europe to backpack with two friends across the continent."

Paul has a B.S. in Computer Graphics Technology from went to Purdue University.

"During the time spent at Purdue, I was a member of the web development team that created the

Purdue at South Bend's website and was chief coder for a senior project team that created an automated pool chlorination and monitoring system as a business proposal," Paul continues.

"This led to a real interest in HCI (Human Computer Interfacing) and I then participated in many research programs that analyzed basic human/computer interaction theories. My senior research project/paper at Purdue explored the transformation of original 2D hand drawn animation into a three dimensional environment. The theory was that 3D animation can accomplish said task 25

Citrus Greening . . . from page 1

genus *Candidatus Liberobacter*. Early symptoms are leaf yellowing, including yellowing of leaves on a single shoot, branch or section of the tree canopy.

The bacteria are transmitted primarily by insect vectors (citrus psyllids). The Asian citrus psyllid (*Diaphorina citri* Kuwayama) was first detected in Florida in 1998.

At a briefing on citrus greening held at CREC on Sept. 8, state entomologist Susan Halbert said that citrus greening was well established in southern Dade County. Severe symptoms have been found on pummelo and grapefruit, although the disease has also been found on limes, oranges, kumquats and possibly other citrus varieties in South Florida.

Spread of citrus greening by the insect vector is potentially much greater than with citrus canker. Host plants for the Asian citrus psyllid are primarily citrus and other genera in the family Rutaceae, including orange jasmine (*Murraya exotica*) and other species of *Murraya*.

The Florida Dept. of Agriculture is establishing plans for eradication of trees with citrus greening.

times more efficiently than what was being done 25 years ago. A comparative analysis and time/cost relationship was established. My degree focused on new media and spatial animation; animation being a dedicated hobby of mine. I enjoy creating 3-D illustrations and animations in my spare time."

Paul is from Indiana and has lived in Wyoming and New Mexico and toured Europe. He has a B.S. in Computer Graphics Technology from Purdue.

"When I do disconnect from the machine I like to spend time outdoors. I enjoy day hiking and camping trips and getting to the beach to explore the rural countryside.

I enjoy atmospheric space music and if you see my MP3 player, I'm probably listening to anything from Norwegian folk to Indonesian Gamelan."

"I'm really excited to be in Florida and look forward to exploring the beaches and coastal towns. I've finally worked that itch to travel far and wide out of my system and am happy and content here in Florida. I plan to retire here. My family lives in South Bend, Indiana and Long Island, New York."

Paul can usually be found at his computer in the library; his telephone extension is 1232. To contact Paul by e-mail: weikelp@crec.ifas.ufl.edu.

A selection of Citrus Greening Resources are on the **CREC website**

Other resources: **FDACS/DPI Citrus Greening Information**

www.doacs.state.fl.us/pi/enpp/ento/citrusgreening.html

UF/IFAS publications:

Citrus Diseases Exotic to Florida: Huanglongbing (Citrus Greening)

K.-R. Chung and R.H. Brlansky
edis.ifas.ufl.edu/PP133

Asiatic Citrus Psyllid, *Diaphorina citri* Kuwayama (Insecta: Homoptera: Psyllidae) by F.W. Mead
edis.ifas.ufl.edu/IN160

2005 Florida Citrus Pest Management Guide: Soft-Bodied Insects Attacking Foliage and Fruit by H.W. Browning, C.C. Childers, P.A. Stansly, and J. Peña
edis.ifas.ufl.edu/CG004

At CREC, research on citrus greening is conducted by Dr. Ron Brlansky, and the Asian citrus psyllid by Dr. Carl Childers and Dr. Michael Rogers.

*From The
CREC Library*

Access To UF's Online Library Resources

by Marcia Alden



The UF Librar-

ties make a number of resources available via the Internet, available at any UF facility. Away from campus, not all of sites are freely available and online access is restricted to only UF students, faculty and staff. If you attempt to connect to these resources, you may be prompted for a username and password, or worse, a preferred method of payment for purchasing. The UF Libraries are able to provide free access through a remote logon. Currently there are three choices for remote logon: dial up to UF GatorLink; UF Libraries' Proxy; and, UF VPN. You will need a library-activated number (the 14-digit number under the bar code on your Gator1 card) or a GatorLink account. By using these methods, you are virtually able to become part of the UF community and have access to all of the resources

See CREC Library, page 5

People and Plants in Space?

Drs. Bill Miller, Reza Ehsani, Masound Salyani, José Reyes, Sherrie Buchanon and Monica Lewandowski visited Kennedy Space Center on Aug. 15 to tour the Space Life Science Lab facilities and give presentations about CREC engineering projects for citrus production and processing. Last month, **Dr. John Sager** (NASA Biological Sciences) and a group of agricultural engineers from Kennedy Space Center, including visiting faculty from other universities, toured CREC facilities to learn more about engineering projects in citrus. **Dr. Monica Lewandowski** also provided an overview of CREC programs to the groups. The SLS Lab, a 100,000 square foot facility dedicated in 2004, houses support of International Space Station payloads and life sciences research for future space exploration. NASA, NASA contractors, the University of Florida and other institutions use the facility.



Left: **Dr. John Sager** describes work in the Flight Experiment Support and Hardware Development lab, which can support biological experiments for the space shuttle and the International Space Station. **Dr. Bill Miller** (center) and **Dr. José Reyes** look on.

Dr. Jay Garland with Dynamac Corp. also gave tours of research labs for the recovery and recycling of waste products and water for space exploration.

Neil Yorio and Dr. Gary Stutte provided tours of the plant growth chambers for cultivation of crops in space, including evaluation of light emitting diodes for plant lighting (lower left, NASA photo), analysis of ethylene and other compounds in enclosed growth chambers and effects on plant growth, and systems for supplying water and nutrients in low or microgravity.

Far right: Dr. Miller peers into a chamber in which aspects of the environment can be controlled, such as atmospheric pressure, to investigate effects on instrumentation and plant growth.



Dr. Jim Syvertsen traveled to Australia in August, where he toured the Riverland's citrus areas and gave a seminar to growers and researchers in Merbein, Victoria, entitled, "Salinity, Shade and Mechanical



harvesting Stress in Citrus.

Dr. Syvertsen also traveled to Salto, Uruguay on Sept. 3-11 in conjunction with a UF/INIA cooperative project to review their citrus research program. He also presented a seminar, "Shade effects on citrus trees and fruit quality."



Citrus Heritage

Meredith Morton (above), **Dr.**

Steve Futch and Dr. Monica Lewandowski participated in a citrus heritage event at the Polk Historical Museum in Bartow on Aug. 20. The event was held in conjunction with a citrus crate label display that was on exhibit this summer. Dr. Futch was on hand for seminars and questions about growing citrus for homeowners; Meredith and Monica set up children's citrus-themed crafts (above right) and activities. The Polk Historical Museum, on Main Street in downtown Bartow, also has area citrus history and information in their regular museum exhibits.

ASHS Fruit Publication Award to Graham Barry, Bill Castle and Fred Davies

Dr. Graham Barry, Dr. Bill Castle (CREC) and Dr. Fred Davies (UF Horticultural Sciences - Gainesville) received the American Society for Horticultural Science Fruit Publication Award at the ASHS Annual Meeting, July 18-21, in Las Vegas. The award recognizes the author(s) of the outstanding paper in the designated area, published in the previous year's issues of *The Journal of the American Society for Horticultural Science*, *HortScience*, or *HortTechnology*.

Dr. Barry, who earned his Ph.D. from the University of Florida, studied with Dr. Castle at CREC and is currently on the faculty of the University of Stellenbosch in South Africa.

The paper, which was part of Dr. Barry's dissertation thesis, was titled "Rootstocks and plant water relations affect sugar accumulation of citrus fruit via osmotic adjustment," by G.H. Barry, W.S. Castle and F.S. Davies, published in *The Journal of the American Society for Horticultural Science*, 2004: 129:881-889.

Dr. Jude Grosser was also recognized by the ASHS this year with the Outstanding Researcher Award (see July 2005 Citrus Leaves for article).

Congratulations to Dr. Barry, Dr. Castle, Dr. Davies and Dr. Grosser on their outstanding achievements.

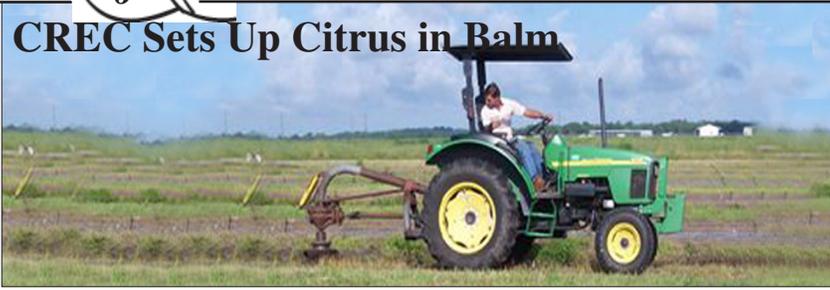
CREC Library . . . from p. 4

you have access to here at the Center.

When you are traveling, it's easy to logon to the library proxy because it is easily accessed via the Internet. From the UF Libraries home page (www.uflib.ufl.edu), click the "Remote Logon" link in the upper right-hand corner, in the top blue bar. A link to the library proxy server is also available from the CREC Library proxy server Web page. Enter your 14-digit library card number or GatorLink account username & password. Be sure to follow the navigation instructions for remaining connected to the proxy. Once you are logged on to the proxy server, you have access to all of the online resources.

For more information about off-site connection, please read: www.uflib.ufl.edu/access.html.

CREC Sets Up Citrus in Balm



CREC's Plant Improvement Team and the Grove Crew planted over 4000 citrus trees this summer for rootstock and scion evaluation and trials at the UF/IFAS Gulf Coast Research and Education Center's new facility in Balm. Balm is in Hillsborough County, and houses UF/IFAS programs previously located in Bradenton and Plant City. Lower left photo: Dr. Gmitter and laboratory toiled in the summer sun to establish citrus plantings for evaluation. Left to right: Dr. Young Choi, Margie Wendell, Misty Holt, Dr. Gmitter, Dr. Chunxian Chen and Dr. Rao. Lower center photo, the group in action. *Photos submitted by Margie Wendell.*



Above, left to right: Jim Baldwin, Ryan Atwood, Aja Cunningham, Huang Shu, Dr. Madhugiri Rao, Dr. Bill Castle, Dr. Fred Gmitter and Troy Gainey take a work break to pose for a group picture.

Below: CREC's Plant Improvement Team (led by Dr. Bill Castle, Dr. Fred Gmitter and Dr. Jude Grosser), cleaned themselves up to celebrate their planting milestone with a lunch at Southern Dunes.



Dr. Stuart in the Amazon

Fascinating Flora and Fauna Highlight of Travels

by Meredith Jean Morton



The Amazon rainforest is a scientist's paradise, and it was no exception for **Dr. Robin Stuart**, who traveled to Brazil in May.

The trip was Dr. Stuart's fifth journey to Brazil, but he speaks of the area with the excitement of a first-time visitor.

"It's just such a great place to visit," says Dr. Stuart, looking through photos from his trip.

Dr. Stuart visited the Reserva Biologica deCuieiras, a field station

in the terra firme lowland rainforest, about 60 kilometers northwest of Manaus, Amazonas State. The field station is operated by INPA as part of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia, a cooperative international project to study biogeochemical processes in Amazonian ecosystems.

During his trip, Dr. Stuart stayed at the unique

Ariau Towers Jungle Hotel, the only hotel complex at tree top level in the Amazon Rainforest.

"The hotel was great," Stuart says. "It was in the igapo [flooded] forest, with the buildings up on stilts and connected by catwalks. It's really kind of neat, surrounded by nature preserves – a great place for ecotourism."

In addition to visiting the INPA field station with colleagues Dr. Katia Rodrigues, (Mycology Department, FIOCRUZ, Ministry of Health, Rio de Janeiro) and Carlos Alberto Cid Ferreria, (Department of Botany, Instituto Nacional de Pesquisas da Amazonia (INPA), Manaus), Dr. Stuart participated in several other exciting activities. He went piranha fishing, watched squirrel monkeys and parrots at the hotel, and observed the local ant species.

"I saw the large stinging Ponerine ant," says Dr. Stuart enthusiastically. "There were also leafcutter ants."

Dr. Stuart says one of the most interesting aspects of his trip was the opportunity to hear ants stridulate (the term used to describe the act of making sounds by rubbing body parts together).

"Ants are one of my areas of interest," says Dr. Stuart, who studies ant predation on Diaprepes root weevils, a pest of citrus and other crops. "But I've never gotten the chance to hear them. This trip I was able to observe ants large enough to hear stridulate."

Dr. Stuart greatly enjoyed his latest trip to the Brazilian Amazon, and is planning to return for another visit in September and again in December of this year.

Photos from Dr. Stuart.



Good Deeds, Good News

Thanks to **Renato Reis**, who found and returned a ring that belonged to Debbie Van Clief. The ring had great sentimental value and its safe return was greatly appreciated.

Also, thanks to **Dr. Iqrar Khan**, who found and returned some money that was reported lost by Rachel McCoy. These good deeds mean a lot!

Shelley Jones (below left), her husband, **Dana**, and **Jim Baldwin** and his wife, **Linda** (below center), were part of a group from Beymer Memorial United Methodist Church in Winter Haven that spent a week putting a roof on a house for a Methodist Habitat project in Eleuthera, Bahamas, this summer. **Dr. Jodie Whitney** was also part of the project's organization and fund-rasing. The team had a productive and enriching trip, and also enjoyed the island's friendly people and natural beauty.



Jeff Timmer, son of **Dr. Pete and Nancy Timmer**, married **Martha Mancewicz** (right) on Aug. 6 in Marina del Rey, Calif., with about 80 guests in attendance. Jeff works as a stress engineer for Northrup-Grummond on the James Webb space telescope (the replacement for the Hubble). Martha works for the Rand Corp and has done a lot of SAS programming. Martha is originally from the Detroit area, but has lived in California for some time. The couple will live in Culver City and Dr. Timmer says yes, she will change her name.



Brittney N. Pearn, granddaughter of **Janice and Virgil Stewart** and daughter of **Nicole Smith**, graduated from Lake Region High School in May and is currently studying liberal arts at Polk Community College. Brittney graduated with High Honors and was awarded a two-year academic scholarship, a Bright Futures scholarship (Gold medallion), and the Walter Mae Williamson Scholarship. During her high school career, Brittney

Dr. Iqrar Khan returned to the Sultan Qaboos University, Oman
 Monica Dickinson (Dr. Grosser)
 Jessica Noling (Dr. Graham)
 Jose Carlos Rodrigues (Dr. Childers)
 Liza Zhang (Dr. Timmer)
 Jennifer Vick (Dr. Syvertsen)
 Naresh Pai (Dr. Salyani)
 Meredith Morton (Dr. M. Lewandowski)
 Yehong Xu (FDOC, Dr. Cancalon)

Did we miss you or someone in your lab/department? Send names to mmlew@crec.ifas.ufl.edu, or contact the CREC Switchboard.

was on the Silver Streak Dance Team and was a junior varsity and a varsity cheerleader, serving as squad captain in her senior year. She was also an All-American cheerleading nominee.

She was in the Future Business Leader of America club, Honor Society, Student Council, was a Senior Class Senator and on the yearbook staff. She also teaches Sunday School at the Polk City Church of Christ.

Brittney was second runner up for Homecoming Queen and voted "Most Thunder Spirit."

She was named to the 2003-04 "Who's Who Among American High School Students," academic and sports editions, and received a "Who's Who: Academic Award and Honor Society Award (2004-05).

Nicole has worked at McDonald's for two years and is now a manager.

Grandparents Janice and Virgil Stewart both work at

CREC. Brittney's mother, Nicole Smith, previously worked at CREC for Dr. Nigg.

After PCC, Brittney would like to continue her education and eventually pursue a master's degree.



Manuscripts Submitted to the Publications Committee in August

- Q. U. Zaman, A. W. Schumann, and H. K. Hostler.** Rapid Estimation of Citrus Tree Damage from Hurricanes in Florida Using an Ultrasonic System. *HortTechnology*.
- F. Alferez, L. Pozo, and J. K. Burns.** Physiological Changes Associated with Senescence and Abscission in Mature Citrus Fruit Induced by 5-Chloro-3-Methyl-4-Nitro-1H-Pyrazole and Ethephon Application. *Physiologia Plantarum*.
- C. C. Childers and M. E. Rogers.** Evaluation of Chemical Control of the Asian Citrus Psyllid, *Diaphorina citri*, Kuwayama (Homoptera: Psyllidae) and Management Approaches in Florida Citrus. *Proceedings of the Florida State Horticultural Society*.
- C. C. Childers and P. A. Stansly.** Thrips (Thysanoptera: Thripidae) Pests of Florida Grapefruit: Biologies, Seasonal, and Relative Abundance, Fruit Damage and Monitoring. *Proceedings of the Florida State Horticultural Society*.
- J. P. Agostini, N. A. Peres, S. J. Mackenzie, J. E. Adaskaveg, and L. W. Timmer.** Effect of Fungicides and Storage Conditions on Postharvest Development of Citrus Black Spot and Survival of *Guignardia citricarpa* in Fruit Tissues. *Plant Disease*.
- C. C. Childers and S. Nakahara.** Thysanoptera Within Citrus Orchards in Florida: Species Distribution, Relative and Seasonal Abundance Within Trees, and Species on Vines and Ground Cover Plants. *Florida Entomologist*.

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
calendar.ifas.ufl.edu UF/IFAS Extension events statewide		September 2005			FloridaAgCalendar.com Ag industry events statewide	
				Citrus 1 Packinghouse Day	2	3
4	5 Holiday Labor Day	6	7 Flavor Chem and Technol	8 end of UF pay period	9	10
11	12 Adv Citric I	13	14 Flavor Chem and Technol	15	16 CREC Poster Symposium	17
18	19 Citrus canker/ greening mtg Adv Citric I	20	21 Flavor Chem and Technol	22 end of UF pay period	23	24
25	26 Adv Citric I	27	28 Flavor Chem and Technol	29	30	

All events subject to change

September

1- Annual Citrus Packinghouse Day
16 - "Meet CREC's Ph.D., Postd-doc and Visiting Scientists: Posters and Pastries - A Research Symposium." 10 am - 12 noon; BHG 1-2. Open to all interested persons.
19 - Citrus canker task force meeting; citrus greening meeting, BHG.

October

5 - Florida Citrus Production Managers meeting, BHG.
7 - Holiday, UF Homecoming, 1:00 - 5:00 pm.
12 - Certified Crop Adviser Educational Seminar. Registration and program: www.crec.ifas.ufl.edu/ccs
20 - Citrus Processors Day and Subtropical Technology Conference
Research updates for the citrus processing industry

Courses at CREC Fall 2005

ADVANCED CITRICULTURE I - HOS 6545 - Dr. L. Gene Albrigo, Professor of Horticulture, CREC
Mondays, 4 - 7 pm
BHG Conference room
Taught on-site at CREC; available by videoconference at UF/IFAS locations in Immokalee, Gainesville and Fort Pierce

FLAVOR CHEMISTRY AND TECHNOLOGY - FOS 6317 - Dr. Russell L. Rouseff, Professor of Food Chemistry, CREC
Wednesdays, 4 - 8 pm
CREC BHG Teaching Lab
Taught on-site at CREC.

PLANT PATHOLOGY AND FRIENDS - PLP 6905 - Dr. Kuang-Ren Chung
Informal seminars every Fri. at 11 am - 12 noon in the BHG Teaching Lab. Topics not limited to plant pathology. Students, post-docs and visiting scientists strongly encouraged to present an informal seminar. Contact Dr. Chung (krchung@crec.ifas.ufl.edu, or Ext. 1369) for more information or to sign up for a seminar date.

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
calendar.ifas.ufl.edu UF/IFAS Extension events statewide		October 2005			FloridaAgCalendar.com Ag industry events statewide	
						1
2	3 Adv Citric I	4	5 Prod Mgrs mtg Flavor Chem and Technol	6 end of UF pay period	7 Holiday, 1-5 pm, UF Homecoming	8
9	10 Adv Citric I	11	12 CCA Seminar Flavor Chem and Technol	13	14	15
16	17 Adv Citric I	18	19 Flavor Chem and Technol	20 Citrus Processors Day end of UF pay period	21	22
23	23 Adv Citric I	25	26 Flavor Chem and Technol	27	28	29
30	31 Adv Citric I					