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Citrus Leaves

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

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UF employees
Get Your Gatorlink Password!
Go to gatorlink.ufl.edu
All UF employees will need a Gatorlink password by June 18 for time and leave reporting.

New P-Cards

UF started issuing new purchasing credit cards (P-cards) from Wachovia Bank MBNA on April 1. The old State of Florida, Bank of America cards have been deactivated. UF cardholders should see Pam Holderman in the Business Office to obtain new credit cards. Cardholders must complete the online P-card training at my.ufl.edu if you have not done so within the last six months. Print the "Certification Confirmation" screen and bring this to Pam to receive your new card. (It is not necessary to print any of the forms). Cardholders should also be aware that there is a new tax exempt certificate and number, the billing address has changed slightly and some card limits have changed.

Carlos Odio Receives Citrus Engineering Award

50th Annual Citrus Engineering Conference

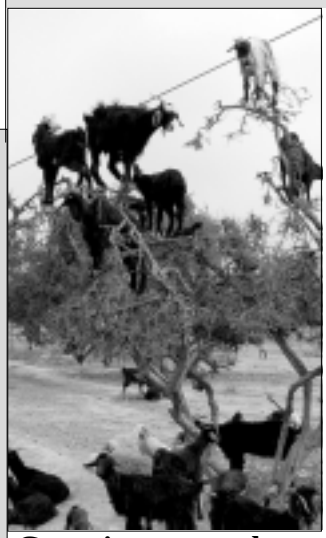
Carlos E. Odio received the Citrus Engineering Award at the 50th Citrus Engineering Conference at CREC on March 18. Over 100 people attended the conference, which was hosted by the American Society of Mechanical Engineers - Florida Section.

The award, which is sponsored by Progress Energy Florida, Inc., recognizes lifetime achievements in citrus engineering. Recipients are selected by the conference's planning committee, which was chaired by Elizabeth Webb, Brown Citrus Systems, Inc. Michael Burke from Enerfab, Inc. was the program moderator.

Steve Rudolph of Progress Energy Florida, Inc. presented

see Citrus Engineering, p. 2

Carlos Odio (left) receives the Citrus Engineering Award from Steve Rudolph (Progress Energy Florida).



Goats in trees and more photos from Morocco on page 4.

Bice, Crews, Lins and Roper Inducted Into Citrus Hall of Fame

Lorin T. Bice, C. Elton Crews, Donald M. Lins and Bert Roper were inducted into the Florida Citrus Hall of Fame on March 26 at the Nora Mayo Hall in Winter Haven.

The Florida Citrus Hall of Fame recognizes those who

see Hall of Fame, p. 3

Upper right, Winter Garden citrus grower and packer Bert Roper; lower right, 2001 Hall inductee Buster Pratt with 2004 inductee C. Elton Crews.

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 mmlew@crec.ifas.ufl.edu; Ext. 1233. Photography, Gretchen Baut; Production and Distribution: Word Processing, Barbara Thompson, Supervisor; Kathy Snyder, Karla Flynn and Linda Murphy; Customer Service, Kathy Witherington, Supervisor, and Nancy Burke.

Citrus Engineering Conference . . . from page 1

the award to Odio, which includes a plaque and a $5000 scholarship to be designated to the school of the recipient's choice. This year's scholarship will be donated to the University of South Florida to support graduate student education in engineering.

A native of Costa Rica, Odio holds B.S. degrees in civil and industrial engineering from Purdue University. His career in citrus processing engineering spans over 30 years, working for Redd Laboratories, Inc.; Gulf Machinery Co.; Gumaco, Ltda.; Intercit, Inc.; and TicoFrut, S.A.

business partners James. B. "Doc" Redd and Charles S. Walker and helped make Gulf Machinery Co. and Gumaco, Ltda. major worldwide suppliers of citrus processing equipment. Gulf Machinery grew to provide equipment to other fruit industries and Gumaco, Ltda. expanded into the chemical and petrochemical industries.

In 1988, Odio built TicoFrut S.A., a citrus processing plant in Cost Rica. From modest beginnings, TicoFrut S.A. has helped make Costa Rica the second largest orange juice supplier to the U.S.

The one-day conference was highlighted by presentations on engineering issues facing the citrus industry. Speakers included Jean-Pierre Emond (University of Florida/IFAS), Timothy R. Rugh (3-A Sanitary Standards, Inc.), Joseph N. DeMarco (Tropicana Products, Inc.), Douglas C. Fair (InfinityQS International, Inc.), Jim Redifer (Rockwell Automation), Paul Gates (TEAMWORKNET, Inc.) and Cliff Vaughn (Johnson Diversey Inc.).

Above: the Citrus Engineering Conference committee (above) was chaired by Elizabeth Webb from Brown Citrus Systems in Winter Haven. CREC members include Dr. Bill Miller, Dr. Renee Goodrich and Dr. Bob Braddock. Committee members meet monthly to plan the conference program, proceedings and related matters.

Near right, Ian Houston (FMC) hands out a door prize; center, Elizabeth Webb was the conference committee chair; far right, Michael Burke from Enerfab, Inc. was the program moderator.

Near right, J. Tal Webb addresses the audience on behalf of the American Society of Mechanical Engineers. The Citrus Engineering Conference is the ASME's oldest conference of its kind - focused on a specific topic area.

Far right, Dr. Jean-Pierre Emond from the UF/IFAS Department of Agricultural and Biological Engineering, Packaging Science program, addressed packaging materials for citrus juices.

Diaprepes Task Force Meeting

The Diaprepes Task Force Annual Scientific Meeting was held at the USDA-ARS facility in Ft. Pierce on March 4.

The Diaprepes root weevil is a devastating pest of citrus and other crops, including several ornamentals. It is found throughout Florida's citrus growing areas.

The Diaprepes Task Force, chaired by Bartow citrus grower Garvie Hall, includes citrus growers, scientists and regulatory personnel. Formed in 1993, largely due to the efforts of Haines City citrus grower Buster Pratt, the group provides Diaprepes information and education and promotes pest management research.

Above left, Diaprepes Task Force chair Garvie Hall (left) listens to Dr. Robin Stuart; center photo, Dr. Larry Duncan (left) at the poster session; far right, Dr. Hong Li (center) is surrounded by a group of people at her research poster.

Highlights from the meeting included CREC and USDA-ARS updates on several promising rootstocks that are resistant to *Phythophthora nicotianae* and *P. palmivora*, and able to withstand mechanical damage caused by Diaprepes feeding. Various genetic methods are being used to also incorporate other characteristics such as resistance to tristeza and other diseases. Other reports included progress on the use of egg parasitoids as a biological control (Dr. Jorge Pena, UF/IFAS Tropical REC in Homestead).

crec.ifas.ufl.edu/ Diaprepes_Task_Force

There were also 12 research posters from scientists at CREC, TREC, UF/IFAS Southwest Florida REC, UF/IFAS Department of Entomology and Nematology, USDA-ARS in Ft. Pierce, Gainesville and Miami, FDACS, and the Florida Research Center for Agricultural Sustainability.

The Diaprepes Task Force is establishing a new website for citrus growers at crec.ifas.ufl.edu/ Diaprepes_Task_Force.

Dr. Mike Martin Accepts NM State Presidency

Dr. Mike Martin, currently UF Senior Vice President of Agriculture and Natural Resources, has been named president of New Mexico State University and will leave UF/IFAS, effective July 1. "The UF/IFAS administration is first rate and President Bernie Machen is charting a course toward continued excellence for the university. Over the next few months, I will work to ensure a smooth leadership/administrative transition for UF/IFAS. And I hope to find the opportunity to thank each of you for your friendship. We will soon become New Mexico State Aggies, but will always keep Gator spirit in our hearts," wrote Dr. Martin in an open letter distributed IFAS-wide.

UF Business Cards

The optional use of the UF athletic Gator head logo on UF business cards has been approved. Order forms are available online at ics.ifas.ufl.edu/Bc.PDF. Specify your request for a Gator head on the business card request form. Black and white and color printing are available (extra charges may apply for color printing and color logos). Contact the IFAS Communications office (Suncom 622-2411) for ordering and price information.

Photo Corner

Does your digital camera have a long "lag time" - that is, a delay from when you press the shutter release to when the camera actually takes the photo? Try setting the autofocus and autoexposure (usually by pressing the shutter halfway and holding it) before you need to capture your shot. On many cameras, this will usually reduce the lag time. High-end and newer cameras have improved technology with reduced or very short lag times.

Neil Berger Visits UF President Machen

Neil Berger and his wife, Michele, were invited to a luncheon honoring UF employees with 36+ years of service at the home of UF President Bernie Machen and his wife, Chris. Neil, who currently works for Dr. Ron Brlansky, has worked at CREC for 37 years.

Other guests, about 20 total, included a sargeant with the campus police and employees from the IFAS centers in Homestead, Ft. Pierce, Hastings and Bradenton. Neil said that the original idea was to invite UF employees with 25 or more years of service, but that would have included over 900 people!

President Machen's home, which is located north of campus, is university-owned and often used for university functions. During the luncheon, which Neil described as an "elaborate" spread, the guests were entertained by a student musician at the piano. Neil and Michele had the opportunity to enjoy the home's beautiful gardens and furnishings.

Photos by G. Baut

IR-4 Tour

The IR-4 (inter-regional project 4) program helps develop pest control for minor crops, including fruit crops. A training program in Good Laboratory Practices (the protocols and regulations for research and testing of chemicals for food crops) was held at CREC on March 2 as part of a training workshop in Orlando. The workshop was coordinated by **Dr. Marty Marshall and Robin Adkins** from the UF/IFAS Dept. of Food Science and Human Nutrition (Dr. Marshall is a former CREC faculty member). The training at CREC included sprayer and nozzle demonstrations (above). Lower right, **Dr. Steve Futch** demonstrates an herbicide applicator for citrus groves. The group also toured the CREC packinghouse and pilot plant. UF is one of four regional IR-4 research centers in the U.S.

Hall of Fame . . . from p. 1

have made major contributions to the Florida citrus industry. Bice, deceased, was recognized for his work with Farm Credit. Crews was known as an innovative citrus grower and one of the first to use high-density plantings and microjet irrigation. Lins, deceased, worked for Seald Sweet Growers, Inc., and helped open new markets in Japan and Europe. Roper is a Winter Garden grower and citrus packer.

Gretchen Baut provided graphics, photography and audio-visual for the awards ceremony.

Hall of Fame inductees from CREC include Dr. Arthur F. Camp and Dr. Herman J. Reitz (CREC's first two center directors), Dr. W.L. "Tommy" Thompson, C.D. Atkins, Dr. Edwin L. Moore, Dr. Ivan Stewart, Dr. Robert Koo, Dr. William Grierson, Dr. James Griffiths, Dr. Ivan Stewart, Dr. John Attaway and Dr. Mohamed Ismail.

Better Business

Tips that pertain to UF/IFAS Business:

When requesting reimbursement from SHARE for expenses, such as travel, supplies, books, and vendor services, the original receipts must accompany those expenses. SHARE *does not* allow reimbursement by Per Diem – only reimbursement with original receipts.

Purchases on UF state accounts should be made by May 31 to complete processing by the end of the fiscal year, June 30.

Morocco - Photos

Nearly 30 UF and FDOC scientists attended the Xth Congress of the International Society of Citriculture on Feb. 15-20 in Agadir, Morocco. Featured in last month's issue, here are more photos of sights and scenes from Morocco. Photos by Holly Chamberlain, Fahiem El-Borai, Sachindra Mondal, Natalia Peres and Pete Timmer.

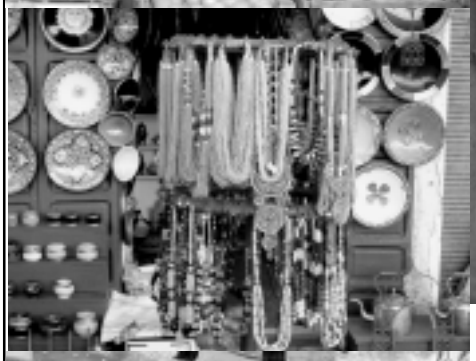
Above: a camel says hello. Center: that's Sachindra Mondal playing tambourine with the dinner band! Right, Kathy Snyder hops on a camel.

Above, a building in Casablanca. Below, market scenes.

Left: Sachindra Mondal, Fahiem El-Borai, Robin Stuart, Holly Chamberlain, Natalia Peres and Pete Timmer.

The Story of the Argan Tree - Right: Holly Chamberlain (citrus canker Extension coordinator from the Southwest Florida REC) poses with women at work cracking nuts from the argan tree. The tree is found only in southwestern Morocco, and its twisted, gnarled branches and trunk can even support the weight of goats (right, below) that like to feed on the leaves and fruit. The fleshy part of the fruit is digested by the goats but the hard nuts are excreted. The nuts are collected by farmers and processed, laboriously by hand, for the oil. Argan oil is prized for its flavor in cooking.

Below, Natalia Peres (now Assistant Professor of Plant Pathology at the UF/IFAS Gulf Coast REC in Bradenton) tries her hand at weaving.



Above, Dr. Wenwu Guo, Dr. Huating Dou and Dr. Yuan You Lang. Below, a citrus packinghouse in Morocco.

Student News

Ayna Salas is a student intern (practicante) working with **Dr. Ron Brlansky**. Originally from Quito, Ecuador, Ayna is a senior agronomy major at Zamorano University in Honduras. Students are required to do an internship before graduating, and only the top students are selected for foreign internships outside of Honduras. Ayna is learning molecular biology and electron microscopy lab techniques and is helping out in the greenhouse. She is staying in the dorms and will return to Honduras on May 1.

Lauren Urdaneta (seated) and **Antonio Baiz** (standing, center), students at the McKeel Academy for Technology, spent a day with **Pedro Gonzalez** as part of a career-shadowing activity. The students visit workplaces to gain insight into different careers.

Kanjana Mahattanatawee was selected as one of four national finalists for the American Chemical Society's Agricultural and Food Chemistry Division Graduate Student Research Competition. "It was a distinct honor to be selected as one of the finalists," said her major professor **Dr. Russell Rouseff**, who added that the field included applicants from the U.S., Canada and England. Dr. Rouseff also noted that the competition is "very, very tough." As a finalist, she received travel expenses to present her research at the society's national meeting, March 28-April 1, in Anaheim. Kanjana, whose research involved the impact of carotenoid breakdown products on citrus juice flavor, completed her Ph.D. dissertation earlier this semester.

The only CREC student to win this national competition was Dr. Prashanthi Jella, a former student of Dr. Rouseff's who now works at the Coca Cola headquarters in Atlanta. Eve Weiss and Jamie Goodner, former students of Dr. Bob Braddock's, were also honored as national finalists.

April Elston (above right) was selected as the Virginia Dare Flavor Company winner. She was honored for her grades and research scholarship in the area of flavors. She received a plaque and monetary award at the Institute of Food Technologists Florida Section meeting in Gainesville on March 25. April is a graduate student working with **Dr. Russell Rouseff**.

Benjamin Warren received the 2004 IFAS Award of Excellence for Graduate Research for his M.S. thesis titled, "Comparison of conventional culture methods and the polymerase chain reaction for the detection of *Shigella* species on tomato surfaces." **Dr. Mickey Parish** (CREC) and **Dr. Keith Schneider** (FSHN) served as co-chairs of Ben's M.S. committee. This award recognizes the most outstanding M.S. thesis from IFAS in a given year.

Dr. Monica Lewandowski visited Mrs. Shannon Schumaker's kindergarten class at St. Paul's School in Winter Haven (above) on March 16 as part of Florida Agricultural Literacy Day. She read a story about farming and planted seeds with the children as part of a statewide event to educate students about Florida agriculture. Over 300 farmers, FFA students and other ag representatives visited classrooms throughout the state. The event was coordinated by Florida Ag in the Classoom (www.fl-ag.com/faitc), a non-profit organization dedicated to agricultural education, and the Florida Dept. of Ag and Consumer Services.

Dr. Chung (far left) talks to high school students from a Lake Wales leadership program and demonstrated molecular biology lab equipment during a tour on March 16. **Dr. Monica Lewandowski** showed the students unusual citrus varieties and toured them through a plant virology lab. Through this program, the students are able to learn more about their community.

Photos by G. Baut

Sanjit Singh, son of **Dr. Samunder and Dr. Shila Singh**, was a member of Jewett Middle Academy's Economics Team which won first place the the Polk County Middle School Economics Team Tournament on March 30-31 at the Lakeland Center. The event is an academic competition where students are quizzed on economics terms and general subjects including geography, math, science, social studies and English. Sanjit was also a member of the school's first place team in the Polk County MathCounts Championship. Sanjit is in the 8th grade and has been selected to attend the International Baccalaureate at Bartow High School. Sanjit is pictured above (second from left) with Jewett teachers and principals.

Manuscripts Submitted to the Publications Committee in March:

L. G. Albrigo. Flowering Fruit Set and Quality of Citrus _ A Review of Climatic Effects. *Proceedings of the 10th Congress of the International Society of Citriculture.*

R. S. Buker, III, J. K. Burns, and F. Roka. Late Season Mechanical Harvesting. *Citrus Industry Magazine.*

W. S. Castle, T. Hammond, and M. Kesinger. W. Murcott, a New Scion Variety on the Scene. *Citrus Industry Magazine.*

J. L. Jifon, J. P. Syvertsen, and E. Whaley. Growth Environment and Leaf Anatomy Affect Nondestructive Estimates of Leaf Chlorophyll and Nitrogen in Citrus Species. *Journal of the American Society of Horticultural Science.*

R. J. Stuart, D. I. Shapiro-Ilan, R. R. James, K. B. Nguyen, and C. W. McCoy. Entomopathogenic Nematodes and Biological Control of the Root Weevil *Diaprepes abbreviatus* in Florida Citrus: Virulence of New Strains of *Steinernema riobrave*. *Proceedings of the 10th Congress of the International Society of Citriculture.*

Oral presentation from the International Citriculture Congress 2004 in Morocco: this was inadvertently left off the list of UF/IFAS presentations last month. **F.E. El-Borai, F.E., L.W. Duncan, L.W., J.F. Preston, and D. Dunn.** Impact of *Paenibacillus* sp. on the Effectiveness of Entomopathogenic Nematode *Steinernema diaprepesi*.

Diane Bright (above) and her husband **Dave** traveled to Connecticut and New York to visit her family. Center photo, Diane with her father, Bob, and stepmom, Kathy, at the Empire State Building. Right, the skating rink at Rockefeller Center.

Above left, Times Square in New York City. Center photo, Dave "arresting" a wax figure of Michael Jackson at Madame Tussaud's New York Wax Museum. Right, a very frozen Candlewood Lake in Connecticut.

CREC Soccer Team

Lake Myrtle Park off Berkeley Rd. in Auburndale

4/18 - vs. Landsharks, 3:15 pm
4/25 - vs. Kicks for Christ, 3:15
5/2 - vs. Beef O' Brady's, 1:30 pm
5/9 - no games scheduled
5/16 - League Tournament, time TBD

CREC's soccer team competes in the Auburndale Co-Ed Spring Soccer League. Games are Sunday afternoons at Lake Myrtle Park off Berkeley Rd. in Auburndale. Players and spectators welcome! For more information, contact Dr. Elisabeth Knapp, Tel. 1360 or e-mail elisabeth_knapp@hotmail.com. CREC players include: Ahmad Omar, Fahiem El-borai, Alexey Folimonov, Elisabeth Knapp, Denise Dunn, Ayna Salas, Kanjana Mahattanatawee, Sachindra Mondal and Francisco Garcia-Sanchez. Other players pictured include CREC soccer team veterans Natalia Peres (former student who conducted research at CREC, now a new faculty member at the Gulf Coast REC in Bradenton) and her husband Renato Lauretti.

Welcome

Hanna Rogers - OPS (Dr. Buker)
tina M. Willey - OPS (Dr. Gmitter)
Justin Pettit - OPS (Dr. Buker)
Hollie L. Hurner - OPS (Dr. Nigg)
Cole K. Barton - Ag assistant (Dr. Timmer)

In Memoriam
Audrey Wynne, former graphic coordinator for IFAS Communications, died on February 17. This photo of Audrey was taken at CREC in 1999, when she and other members of IFAS Communicatons conducted a newsletter training workshop.

Bob and Eileen Hoobin announce the engagement of their daughter, **Shannan Leigh**, to **Jon Kevin Abdoney**, both of Lakeland. Shannan formerly worked in Dr. McCoy's lab while attending Georgia Southern University. She is employed with the Department of Children and Family Services as a Child Protections Investigator. Kevin graduated from Duke University and is employed with the State Attorney's office as a Chief Prosecutor for crimes against children. A November 6th wedding is planned.

1 Congratulations to **Amy Hoobin Teaster** and her son **Torin**, who are both Florida State Champions in Tae Kwon Do. Torin, age 6, is a red belt and Amy is a black belt. Both will compete in the National Championship tournament in Ft. Lauderdale in July. Amy is the daughter of **Eileen Hoobin,** who works for the FDOC, and **Bob Hoobin**, who works in the Packinghouse. Amy also formerly worked for Dr. Clay McCoy.

Farewell

Dr. Timmer's lab gathered to wish farewell to **Dr. Jae-wook Hyun**, a visiting scientist from Jeju Agricultural Experiment Station in Jeju Island, Korea. Dr. Hyun is responsible for research and extension on all diseases of citrus on Jeju, where they produce mostly Satsuma mandarins. Dr. Hyun, Dr. Timmer and Dr. Chung conduct research on citrus scab in a mutual project funded by the Korean Rural Development Administration. Dr Hyun and his family returned to Korea in March.

Photo, left to right: Turksen Shilts, Dr. Hyun and his wife and sons, Nancy and Pete Timmer (standing back), Charles Geanangel, Dr. Sachindra Mondal (kneeling front), Tim Johnston and Kelly, and Li Zhang.

James William Pruitt, Jr., was born on March 26 to James and Dusty Pruitt (far right photo). Very proud grandparents are Jeanell and Mike Pruitt (above). Jeanell is CREC's custodial supervisor.

Andrew Lewandowski caught his first fish on March 7, a bass out of Lake Whistler in Auburndale. He caught another bass later that day, then caught his third fish the following weekend. Andrew watched with great interest as Dad used pliers to remove the hook out of the fish's mouth, and all fish were released. Andrew's parents are **Dennis and Monica Lewandowski**.

UF employees
Get Your Gatorlink Password!
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All UF employees will need a Gatorlink password by June 18 for time and leave reporting.

IFAS Extension Calendar on the Web
calendar.ifas.ufl.edu
List of UF/IFAS Extension events statewide

June 6-8: Florida State Horticultural Society Annual Meeting
Sheraton World Resort, Orlando
www.fshs.org
Presentations of applied research pertaining to the production, handling and marketing of horticultural crops and products.

May 8
FFA's First Annual
Beast Feast
Taste of FFA BBQ

Wild game cookout at the Florida FFA Leadership Training Center, May 8, 11:30 am - 2:00 pm.
Silent auction, live auction, entertainment, tours of the facility, raffles, exhibits food. Tickets $100, $25 students. Sponsorship opportunities available. For tickets, call Gary Bartley, Florida FFA Foundation, 5000 Firetower Rd., Haines City, FL 33844. Tel. (863) 439-7332, Ext. 6321. Proceeds to benefit the Florida FFA Foundation.

April 2004

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	Class: Adv Citric II			1 Class: Flavor Chemistry	2 Plant Path & Friends 11 am Teaching Lab	3
4	5 **Time Cards Due** Class: Adv Citric II	6 Seminar: Allen Morris	7	8 Class: Flavor Chemistry	9 Plant Path & Friends 11 am Teaching Lab FDOC Dept. meeting	10
11	12 Class: Adv Citric II	13	14 FL Citrus Nurserymen NAA thinning workshop	15 Faculty mtg Class: Flavor Chemistry	16 Promo & Tenure Plant Path & Friends 11 am Teaching Lab	17
18 CREC Soccer Team Lake Myrtle Park 3:15 pm	19 **Time Cards Due** Class: Adv Citric II	20	21	22 Class: Flavor Chemistry	23 Plant Path & Friends 11 am Teaching Lab	24
25 CREC Soccer Team Lake Myrtle Park 3:15 pm	26 Class: Adv Citric II	27	28	29	30 Plant Path & Friends 11 am Teaching Lab	**Time Cards Due May 3**

All events subject to change.

9 - Seminar, Allen Morris. "The Economics of Orange Juice Marketing and Advertising." 11 am - 12 pm.

14 - 10 am, BHG 3-4. A seminar on the use of NAA (naphthalene acetic acid) for the thinning of various citrus varieties. Dr. Ed Stover (UF/IFAS Indian River REC) will discuss the economic benefit of thinning citrus fruit and its impact on improved size and fruit quality. To register for the program and lunch, please contact Mike Herrington at 863-289-2368 or on Nextel at 161*35*26785.

14 - Florida Citrus Nurserymen's Association, meeting. BHG 3-4.

16 - UF Promotion, permanent status and tenure workshop. 9 am, BHG 304. Registration and information, Lee Esther Wallace, law@ifas.ufl.edu.

Classes at CREC this semester:

Flavor Chemistry & Technology, Dr. Rouseff, Thursdays, 4-8 p.m., BHG Teaching Lab.

Advanced Citriculture II, Dr. Albrigo, Mondays, 4-7 p.m. BHG Conf. room.