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## Citrus Leaves

is the monthly newsletter for employees and friends of CREC.

Would you like to be in "Citrus Leaves?" We welcome your contributions, suggestions and corrections. Editor, Monica Lewandowski; E-mail [mmlew@lal.ufl.edu](mailto:mmlew@lal.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.

On the web: [www.lal.ufl.edu](http://www.lal.ufl.edu) and click on News At CREC/CREC Campus Newsletter

## Feb. 28 - Surplus Supplies Exchange Fair and Ice Cream Social



**What's this???** CREC is hosting an exchange fair - a sort of laboratory/ office "yard sale." It's an opportunity to clean out your labs and offices and share with those who could use your surplus supplies. It's also a chance for you to obtain items that would be otherwise be unused or discarded.

**Ice cream?** Yes, we're hosting an ice-cream social in conjunction with the event - so come join us for ice cream!

**When and where?** Feb. 28 at 3 p.m., in the employee break room in Building 24.

**Most important rule:** *Lab and office supplies and equipment are state property and can be used for work use only. Nothing can be taken for personal use.*

**How will this work?** If you have surplus lab or office supplies (in usable condition) to give away, bring them to the break room between 1 - 3 p.m. on Feb. 28. At 3 p.m., all personnel are invited to come down and take a look. If you see something you can use, it's yours.

**How about chemicals?** Yes - but don't bring the chemicals to the exchange fair. Instead, send a list of your chemicals AND a contact name to Monica Lewandowski ([mmlew@lal.ufl.edu](mailto:mmlew@lal.ufl.edu)), and a master list will be compiled. Or . . . bring your list to the exchange fair. Those interested in chemicals can speak with contact persons directly.

**How about items too large or dangerous to move?** If you have an item that is too large or dangerous to move, just bring a brief description of the item and a contact name on a sheet of paper.

**How about items on inventory?** If you are giving away an item that is catalogued as part of an inventory for UF, FDOC or another agency, follow the agency's proper procedures for change in "ownership". Please identify it as "ON INVENTORY" with a note and contact name. UF inventory items have a University of Florida barcode decal with property number. If you are discarding a UF inventory item, contact Perry Love or Dan Tuzzulo to remove the item off your inventory. If you take an inventory item, you should also notify Perry or Dan to record its new owner and location.

**Any other limitations?** Just use some common sense. Please don't bring items that are irreparable or unusable. If items are broken but repairable, leave a contact name so the new owner can contact you if necessary.

**What if no one takes my stuff?** Unclaimed items must be removed from the break room by 12 noon on Monday, March 3, or otherwise will be thrown away.

**Questions:** Monica Lewandowski, CREC Public Relations, Ext. 1233 or [mmlew@lal.ufl.edu](mailto:mmlew@lal.ufl.edu).

**Dr. Ismail, Sam Killebrew  
Inducted Into Florida Citrus  
Hall of Fame**  
Story on p. 2



## Dr. Ismail, Sam Killebrew Elected to Florida Citrus Hall of Fame

From a Florida Citrus Hall of Fame media release by Brenda Burnette

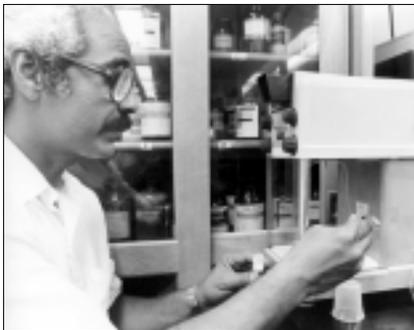
WINTER HAVEN, Fla. (Jan. 16, 2003) - Dr. Mohamed A. Ismail, Senior Research Scientist for the FDOC at CREC, and the late pioneer, Sam H. Killebrew, Sr., were elected to the Florida Citrus Hall of Fame. Induction ceremonies will be March 28 at the Annual Government Day Luncheon held at the Florida Citrus Building in Winter Haven, co-sponsored by the FDOC and the Florida Citrus Showcase.

**Dr. Ismail** is most noted for his research for the fresh fruit industry, which culminated in a U.S. patent for an automated citrus peeling machine. Dr. Ismail was instrumental in the commercial application of cold treatment for quarantine purposes that reduced worker exposure to fumigants and maintained the flow of Florida grapefruit to Japan during a crucial market crisis. Today, Japan imports over ten million cartons of Florida grapefruit annually.

Citrus grower and Hall of Fame Selection Committee member John D'Albora described Dr. Ismail's contributions to the fresh fruit industry as "voluminous," referring to his work for the export program and the citrus peeling machine, which was designed to develop a new market for "fresh-cut" citrus fruit.

"The fresh-cut program, to me, is one of the things that will change this industry as much as concentrate did," D'Albora said. "It will definitely catch on in time."

Born in Cairo, Egypt, Dr. Ismail received a B. Sc. in Agriculture in 1959 from Cairo University and a Masters of Agriculture from Purdue University in 1963. After obtaining his Ph.D. from the University of Florida in 1966, he began his career with the FDOC as a chemist in flavor research, working with Dr. Richard Wolford and C.D. Atkins. He advanced to plant physiologist in 1970 and went on to study postharvest physiology and citrus utilization, areas in which he excelled. In 1987, he became Assistant Director of Scientific Research and later Director in 1995, heading the 17-member postharvest research and mechanical harvesting team through 2001, when he stepped aside to devote more time to re-



Dr. Ismail in the laboratory, earlier in his career.

Florida Citrus Hall of Fame inductees are chosen annually to honor individuals who have given unselfishly of their time and efforts towards the betterment of Florida's citrus industry in any of the following fields: pioneers, harvesting, packing, processing, marketing, scientific and/or educational areas.

For information on attending this year's induction ceremony and luncheon on March 28, contact the Fla. Citrus Showcase, (863) 292-9810 or the Fla. Dept. of Citrus, (863) 499-2500.

search and commercial development of the citrus peeling system and fresh-cut market. Currently, he is the Senior Research Scientist and Professor for the Florida Department of Citrus at CREC.

Dr. Ismail has authored and co-authored more than 125 scientific papers and articles, several of which have won awards. His accomplishments include developing a physical-chemical wastewater treatment for citrus packinghouses to reduce the levels of pollutants in effluent; the use of growth regulators on Florida navels and Minneola tangelos to extend shelf life; developing optimum methods for shipping fresh grapefruit to Japan, thus helping to maintain Japan as an export market; the first website for postharvest information on Florida citrus; leadership in regulatory matters affecting the Florida citrus industry before national and international forums; serving as a member of the U.S. delegation to the CODEX Committee on Pesticides Residues; and participating in national and international efforts to improve postharvest technology and quarantine treatments against citrus canker and tropical fruit flies.

Dr. Ismail's awards include the Florida Fruit and Vegetable Association's "Annual Research Award" in 1983, The Grower magazine's "Excellence in Research Award" in 1982, as well as the Governor's Award for "Most Valuable and Distinguished Service to the State of Florida" from

Governor Bob Graham.

He has been a leader and speaker on numerous national and international research panels and symposiums, and has served on a number of agricultural committees throughout the world in the areas of quarantine treatment, citrus marketing, pesticide usage and postharvest physiology. He is a member of the American Society for Horticultural Science and the International Society for Citriculture. He is also an honorary member of the Florida State Horticultural Society, in which he served as vice president in 1981, secretary from 1989-1994, president in 1995 and chairman in 1996. In addition, Dr. Ismail has served on numerous civic organizations, including the Lions Club and Toastmasters International. He was

also active in Polk County schools and served as chairman of the Polk County Schools Advisory Council for two years. He and his wife, Fawzeya, live in Lake Alfred and have three children, Luby, of Silver Springs, Md. and Esaam and Hesham, of Lake Alfred.

**Sam H. Killebrew, Sr.** (1914-1978), of Auburndale, Fla., was best known for inventing a fertilizer trailer in 1952 that eliminated the manual handling of fertilizer, including bagging, opening and dumping the  
*please see Hall of Fame, p. 5*

**Dr. Mohamed Ismail and Sam Killebrew** will join 139 members of the Florida Citrus Hall of Fame, including:

**Dr. Arthur F. Camp**, CREC Center Director, 1935-56

**Dr. Herman J. Reitz**, CREC Center Director, 1957-82

**Dr. W. L. "Tommy" Thompson**, entomology, 1927-63, CREC

**Dr. Ivan Stewart**, horticulture, plant nutrition, 1951-87, CREC

**Dr. Robert C.J. Koo**, horticulture, irrigation, 1954-90, CREC

**Dr. William Grierson**, postharvest, 1953-61 and 1965-82, CREC

**Dr. James W. Kesterson**, processing, 1947-80, CREC

**Florida Department of Citrus Scientists:**

**Dr. Louis G. MacDowell** - FDOC scientific director, Lakeland

**Cedric Donald Atkins** - FDOC chemist, 1942 - 1973

**Dr. Edwin L. Moore** - FDOC chemist, 1942 - 2002

**Dr. John Attaway, Sr.** - FDOC chemist, 1959-68 and FDOC scientific research director, 1968-95

## Around the Center in January . . .

Photos by Gretchen Baut



### Bracing For Freezing Temps . . .

We had some cold nights and ominous freeze warnings in January, but citrus growers seemed to escape major damage. Left, members of Dr. Gmitter's lab put up cold protection for greenhouse plants; right, **Dr. Larry Parsons** examines some fruit for freeze damage. According to a media release from Florida Citrus Mutual, many citrus growers used the IFAS Florida Automated Weather Network, or FAWN, to track temperature during cold nights. FAWN provides data for temperature, rainfall and other weather parameters from 27 stations in Florida, posted every 15 minutes. FAWN is online at [fawn.ifas.ufl.edu](http://fawn.ifas.ufl.edu) and accessible toll-free in Florida at 866-754-5732. CREC has a FAWN weather station located just southeast of BHG.



### Computer Tools

**Drs. Richard Buker and Tom Hintz** (IFAS Information Technologies) held a computer workshop for citrus growers at CREC on Jan. 22. They demonstrated several resources for citrus growers, including online weather data, pest and disease information, flower bud induction advisories and irrigation scheduling guidelines. A CD with citrus resources was distributed to all participants, and plans are underway to make the CD available to other interested. For more information on purchasing the CD, contact Dr. Buker at [rsb@lal.ufl.edu](mailto:rsb@lal.ufl.edu) or Ext. 1201. Photos: above left, Tom Hintz (left) and Richard Buker (right) demonstrate some computer tools to **Dr. Jim Griffiths**, seated. Above right, laptop computers were set up for class participants.



Photos by Gretchen Baut



### Penecostal Christian Academy

Biology students from Penecostal Christian Academy in Winter Haven visited CREC on Jan. 16. They toured the Electron Microscopy Laboratory with **DiAnn Achor**, the insectary with **Jeannette Barnes, Nadine Cuyler and Rhonda Schumann** (from Dr. Nigg's lab), and the pilot plant with **Monica Lewandowski**.

Photo, left: Students and teachers from Penecostal Christian Academy.



Far left photo, Rhonda Schumann and Nadine Cuyler talk about ongoing experiments for Diaprepes root weevil management; middle photo, Nadine Cuyler (far right) shows some curious students an adult root weevil; right photo, Jeannette Barnes (second from right) tells students about the biology of the Diaprepes root weevil.



### Polk Community College Biology

Biology majors from **Dr. Debbie Sipes'** biology course at Polk Community College visited CREC on Jan. 17 to tour some labs and gain some insight into biology research as a career. Above left, **Dr. Dennis Lewandowski** (far left) show students virus symptoms on plants and explains some of the tools and techniques of molecular biology. Above right, **John Cook** (left) from Dr. Bill Dawson's laboratory explains some of the work involved in studying the molecular genetics of the citrus tristeza virus.



### Film Project

Winter Haven High School students **Amanda Jackson (left)** and **Dusty Miller** used a CREC laboratory as a setting to film portions of their documentary on effects of the drug, Ecstasy, on memory loss. They are producing the documentary for a high school film competition.

## More January News . . .



### Production Mgrs Thank Dr. Knapp

The Florida Citrus Production Managers recognized **Dr. Joe Knapp** (left) for 24 years of service to the citrus industry at their meeting held at CREC on Jan. 8. Dr. Knapp retired in 2001 as Professor of Entomology and Extension Specialist in Integrated Pest Management.

Near right, **Dr. Clay McCoy** and far right, **Dr. Richard Buker** address the production managers.



At the Production Managers meeting: left, **Margie Wendell** (left) and **Misty Holt** set up a display of citrus varieties under evaluation by CREC's Plant Improvement team, which includes **Drs. Fred Gmitter, Jude Grosser** and **Bill Castle**.

Right, Dr. Gmitter speaks to citrus growers at the Production Managers meeting. The growers were invited to examine some promising new varieties, including seedless mandarins and early-maturing Valencias.



### Plant Improvement Team

**Dr. Jude Grosser** (right) examines some cultures in his laboratory. Dr. Grosser uses tissue culture and molecular methods to develop improved citrus varieties. Traits of interest include disease and pest resistance, fruit and juice quality and color, good fruit yield and cold tolerance. Left photo, **Drs. Ananthakrishnan** (left) and **Wenwu Guo**, postdoctoral



*Eric Zamora, UF/IFAS*



scientists in Dr. Grosser's lab, work in the laboratory.

Other members of the Plant Improvement team hard at work. Left, **Milica Calovic** examines a culture under the microscope. Near right, **Patricia Brickman** doing some tissue culture work, and far right, **Orrinna Speese** in the greenhouse.



*Photos by Gretchen Baut*



Above left, **Aja Paolillo** (left) and **Dr. Bill Castle** enjoy a light moment to celebrate Aja's upcoming wedding. Right photo: also present to wish Aja best wishes, **Dr. Larry Jackson, Jim Baldwin, Aja** and **Jim Nunnallee**. Dr. Castle's program focuses on citrus scion and rootstock development, evaluation and selection.

*Photos by Gretchen Baut*



Above, **Xu Xiang** (left) and **Huang Shu** examine data in Dr. Gmitter's laboratory. Dr. Gmitter and his lab group conduct research in citrus breeding and genetics.



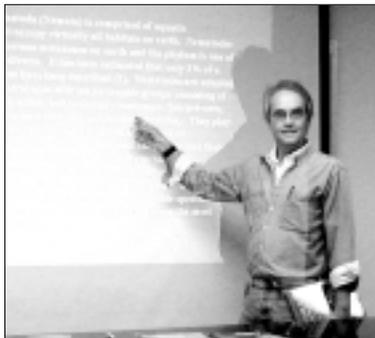
## Meet . . . Dr. Hong Li

**Dr. Hong Li**, a CREC postdoctoral scientist with Dr. Jim Syvertsen, is presenting a seminar on Thursday, Feb. 20, at 11 am, "Spatial and temporal soil variability management using GIS and remote sensing technology." The seminar will be held in BHG Room 1.

Dr. Li is working on precision agriculture/plant water stress/soil variability for citrus with Drs. Jim Syvertsen and Arnold Schumann. Her research interests include understanding plant-soil-landscape relations. She is working on spatial and temporal soil variability management using GIS-based data and aerial infrared photography and multivariate autoregressive state-space analysis of crop yield, soil N, water and field heterogeneity.

Dr. Li earned her Ph.D. degree in soil fertility/plant nutrition at Laval University in Canada in 1997 and subsequently worked at Texas A&M University and North Carolina State University on precision agriculture, variable rate N applications, geographic information System (GIS),

remote sensing, geostatistics, and simulation modeling plant growth and N balance to increase water and nitrogen use efficiency for several crops including potato, oats, cotton, wheat, and soybean.



## Citrus Pest Management

**Dr. Larry Duncan** (left) coordinates the course Citrus Pest Management. The course is offered on Thursday afternoons from 3 - 6 pm, and is team taught by **Drs. Duncan, Graham, Futch, Browning and Chung**.

Right photo: Dr. Duncan with two of the students in Citrus Pest Management, **Tris Curry** (center) and **Darryl Mayo**.

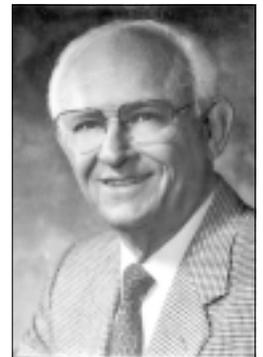
*Photos by Gretchen Baut.*



## In Memoriam

The citrus industry lost two prominent figures in January, **Nancy Hardy** (left) and **Bill Raley, Sr.** (right). Nancy Hardy was the longtime editor of the "Citrus Reporter" newsletter, which was established by her father, Jack Gurnett. She was also a writer for The Produce News for over 30 years and was a senior writer for Citrus Industry Magazine for over 20 years. Last year, she joined her father as a member of the Florida Citrus Hall of Fame.

Bill Raley, Sr., a Polk County area business and citrus industry leader, was a former Florida Citrus Commissioner, Florida Citrus Mutual President, chairman of the board of Dundee Citrus Growers Association and board member for Florida's Natural Growers. Raley is inducted into the Florida Citrus Hall of Fame, along with his wife, Thelma Raley, of Winter Haven.



## Florida Citrus Hall of Fame . . . from page 2

fertilizer into spreaders. Originally designed for Adams Packing Co. of Auburndale, the trailer was so successful that he opened his own business to accommodate the orders. He and another Adams Packing Co. mechanic, Bob Wistine, opened K&W Specialty Company in 1952 with \$200 Killebrew borrowed from his father-in-law and a credit line at Sears on which he charged a welding machine. Within a year, Killebrew bought out his partner and renamed the company Sam Killebrew, Inc.

Killebrew's trailer eventually evolved into a four-compartment side-dump hauler that saved labor, time and money. As his manufacturing business grew, Killebrew used his ingenuity to design other innovative systems such as dry and liquid fertilizer spreaders, logging machines, city refuse units and bulk citrus high-lifts. In addition, he adapted and improved upon a number of other mechanical systems, including wind machines for citrus grove cold

protection. He renamed his business Killebrew Manufacturing and, in the mid-70's, sold the business to Crown Industries where he and his son, Sam, Jr., continued to work as president and general manager. In 1984, the operation was sold to Gallyan Equipment Company, which is still in business today.

"It was a tremendous contribution to the citrus industry in terms of cost savings alone," said Lisa Rath, Florida Citrus Processors Association. "In 50 years, no one has improved upon his methods of moving bulk fertilizer from the plant to the field."

Bob Barben, an Avon Park citrus grower and Selection Committee member agrees. "Anybody who ever rode on the back of a spreader and dumped it [fertilizer] in really thanks Mr. Killebrew!" he said with a laugh.

Killebrew is survived by his wife, Barbara Brown, two sons, Burt Killebrew and Sam Killebrew, Jr., and three grandchildren.

## NEWS AROUND CREC

### CREC Welcome

Matt Bagley - OPS (Dr. Buker)  
 Joshua Mathias - OPS (Dr. Albrigo)  
 Amy Lane - Sr. Bio. Scientist (Dr. Childers)  
 Eliud Keverenge - OPS (Dr. Buker)  
 Dr. Francisco (Paco) Sanchez - Postdoc (Dr. Syvertsen)  
 Eva Maria Ras-Ruiz - Visiting scientist (Dr. Syvertsen)  
 L.E. Tomlinson - OPS (Dr. Echeverria)  
 Amanda Parker - OPS (Dr. Grosser)  
 Baylis Carnes - OPS (Dr. Syvertsen)  
 Thomas Graham - (Dr. Wheaton/K. Morgan)  
 Gwen Lundy - OPS (Dr. Goodrich)

### CREC Farewell

Angela Grant - (Dr. Nigg)  
 Glenn Craddock - Facilities (R. Hoover)  
 Denise Reel - (Dr. Albrigo)  
 Megan Crum - (Dr. Nigg)  
 Kenneth Hagan - (Dr. Albrigo)



### Congratulations

to rodeo rider Drew Flynn, son of Word Processing's Karla Flynn. He is pictured (left) with his "Most Improved Steer Rider" trophy. Drew rides steers in the Combee Arena Rodeo once a month in Lakeland. He is also wearing his 2002 Rodeo Finals belt buckle, his 7th belt buckle since he started riding sheep, then calves, and now steers. Drew received the awards at a rodeo awards banquet in Lakeland. Mama is happy for him, although she wishes he would pick a less dangerous sport.

### Phone Questions

CREC's new Cisco IP Phone system and digital service is up and running. Our phone numbers remain **(863) 956-1151** for Central Switchboard, and **(863) 956-4311** to reach our "automated attendant." The automated attendant allows you to dial extensions directly or search for names if the extension number is unknown. CREC/IFAS extension numbers are now 1 + old extension number. The CREC Switchboard extension is 1011.

**FAQs:** Mike Armstrong has posted answers to "Frequently Asked Questions" about the phone system on the website at \\tangelo\public\documents\VoIP-QA3.rtf.

**Suncom:** CREC is accessible via these 4 direct Suncom lines:  
 515-8913: Central switchboard; basic automated attendant when the switchboard is unattended;  
 515-8921: Automated attendant;  
 515-8930: Center Director's office;  
 515-8931: Business Office FAX.

**Dial-in access:** For those that dial-into CREC's network from home or other remote locations, note that the 956-342X dial-in numbers are out of service until further notice. Dial-in access should be directed to 956-5899. Alternatively, you may be interested in the Florida Information Resource Network's (FIRN) dial-up service for state faculty, staff and students. For more information, visit <http://www.firn.edu/about/services/>.

### Facilities News

A copy of the 4th Edition of the UF Faculty Guide: *Providing Service and Access to Students and Employees with Disabilities in Higher Education - Reasonable and Effective Accommodations* is available in the CREC Facilities office (Sherry Cunningham). It will also be posted on the web at [www.ada.ufl.edu](http://www.ada.ufl.edu) in mid-February.

## - Manuscripts Submitted to the Publications Committee in January -

**G. Barry, W. S. Castle, and F. Davies.** Soluble Solids Accumulation in 'Valencia' Sweet Orange as Related to Rootstock Selection and Fruit Size. *Journal of the American Society for Horticultural Sciences*.

**K-R Chung, M. E. Daub, and C. Schuller.** The CRG1 Gene Required for Resistance to the Singlet Oxygen-generating Cercosporin Toxin in *Cercospora nicotianae* Encodes a Putative Fungal Transcription Factor. *Biochemical and Biophysical Research Communication*.

**C. C. Childers, J. V. French, and J.C.V. Rodrigues.** *Brevipalpus californicus*, *B. obovatus*, *B. phoenicis*, and *B. lewisi* (Acari: Tenuipalpidae): A Review of Their Biology, Feeding Injury, and Economic Importance. *Experimental and Applied Acarology*.

**J.C.V. Rodrigues, E. W. Kitajima, C. C. Childers, C. M. Chagas, and M.A. Machado.** Citrus Leprosis. *Experimental and Applied Acarology*.

**L. R. Parsons.** New Book on Water and Citrus. *Florida Grower*.

**T. Satyanarayana, S. Gowda, M. A. Ayllon, and W. O. Dawson.** Frameshift Mutations in Infectious cDNA Clones of *Citrus Tristeza Virus*: A Strategy to Minimize the Toxicity of Viral Sequences to *Escherichia coli*. *Journal of Virology*.

**C. C. Childers, J.C.V. Rodrigues, and W. C. Welbourn.** Host Plants of *Brevipalpus californicus*, *B. obovatus*, and *B. phoenicis* (Acari: Tenuipalpidae) and Their Potential Involvement in the Spread of One or More Viral Diseases Vected by These Mites. *Experimental and Applied Acarology*.

**Accepted: Read, J.J., E.L. Whaley, K.R. Reddy, and L. Tarpley.** 2003. Evaluation of a hand-held radiometer for field determination of nitrogen status in cotton. p. 000-000. In, Digital Imaging and Spectral Techniques. Applications to Precision Agriculture and Crop Physiology. CSSA, Madison WI (accepted Jan. 2003).

## CREC Spring Seminar Schedule

Seminars are open to all personnel and open to the public.

**Tuesday, Feb. 4, 2003** – CREC, BHG 1; 11 am - 12 noon (refreshments, 10:45 am)

**Dr. Jim Syvertsen**, University of Florida Professor of Plant Physiology, Citrus Research and Education Center, Lake Alfred, FL.  
“Tree Canopy Microclimate and Fruit Load Effects on Photosynthesis and Carbohydrates in Citrus Leaves.”

Dr. Jim Syvertsen conducts research in the area of environmental stress physiology. His program interests include stress effects of light radiation, temperature, drought, nutrient deficiency and salinity on tree responses such as photosynthesis, water use, growth, fruit yield and quality.

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**Thursday, Feb. 20, 2003** - note date change to Thursday – CREC, BHG 1; 11 am - 12 noon (refreshments, 10:45 am)

**Dr. Hong Li**, University of Florida, CREC.

“Spatial and temporal soil variability management using GIS and remote sensing technology.”

Dr. Li is a postdoctoral scientist working with Drs. Jim Syvertsen and Arnold Schumann of soil and crop management using precision agriculture and related technology. Dr. Li earned her Ph.D. from soil fertility/plant nutrition at Laval University in Canada in 1997. Prior to coming to CREC last year, she worked at Texas A&M University and North Carolina State University on precision agriculture, variable rate N applications, geographic information System (GIS), remote sensing, geostatistics, and simulation modeling plant growth and N balance to increase water and nitrogen use efficiency for several crops including potato, oats, cotton, wheat, and soybean.

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**Tuesday, Feb. 25, 2003** - CREC, Ben Hill Griffin, Jr. Citrus Hall Room 1; 11 am - 12 noon (refreshments, 10:45 am)

**Dr. Jackie Burns**, University of Florida Professor of Horticulture, CREC.

“Promising Abscission Compounds of the Abscission Program.”

Dr. Jackie Burns, who works in the area of postharvest physiology, will present a seminar about her research on fruit, leaf and flower abscission and abscission compounds to facilitate mechanical harvesting for citrus.

Dr. Burns’ Abscission website: <http://www.lal.ufl.edu/abscission/a1-team.htm>

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**March 18, 2003** - CREC, Ben Hill Griffin, Jr. Citrus Hall Room 1; 11 am - 12 noon (refreshments, 10:45 am)

**Dr. Robin Stuart**, University of Florida Sr. Biological Scientist, CREC.

“Ant Predation and Biological Control of the Citrus Root Weevil, *Diaprepes abbreviatus*.”

Dr. Robin Stuart is a Senior Biological Scientist who has been working with Dr. Clay McCoy since 2000 on Diaprepes root weevil management. Originally from New Brunswick, Canada, Dr. Stuart earned his Ph.D. in Zoology from the University of Toronto. His research experience includes studies on ant behavioral ecology at Harvard University, population biology and behavioral genetics at the University of Vermont and University of California - Davis, and entomopathogenic nematodes and egg parasitoids for biological control of insect pests at the Rutgers University Blueberry and Cranberry Research Center.

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**March 25, 2003** - CREC, Ben Hill Griffin, Jr. Citrus Hall Room 1; 11 am - 12 noon (refreshments, 10:45 am)

**Dr. Jim Graham**, University of Florida Professor of Soil Microbiology, CREC

“Integrated Management of Citrus Canker: Lessons from South America.”

Dr. Jim Graham’s area of research involves the microbiology of citrus and citrus soils, including the study and management of pathogens such as *Phytophthora spp.* and *Xanthomonas*, the causal agent of citrus canker. His work on citrus canker includes studies on the survival, spread and identification of strains in Florida and elsewhere.

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**Tuesday, April 1, 2003** - CREC, Ben Hill Griffin, Jr. Citrus Hall Room 1; 11 am - 12 noon (refreshments, 10:45 am)

**Mr. Norman Nehmatallah**, University of Florida M.S. graduate student in Food Science with Dr. Robert Braddock, CREC.

“Capillary Electrophoresis and HPLC Determination of Polyglutamyl Folates in Citrus Products.”

Mr. Norman Nehmatallah is working towards a University of Florida M.S. in Food Science with Dr. Robert Braddock. A native of Leamington, Ontario, Canada, Norman has a B.S. in Food Science and Human Nutrition from UF. His research involves developing methods for the detection and quantification of folate in citrus.

# February 2003

All events subject to change.  
**February 2003**

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
2	3	4	5	6	7	8
		Seminar Dr. Syvertsen 11 am BHG 1		Citrus Pest Mgt Class 3-6 pm	Plant Path & Friends 11 am	
9	10	11	12	13	F 14	15
	Time cards due		Supervisors Mtg 8:30 am	Plant Path & Friends 11 am		
16	17	18	19	20	21	22
		Florida Rural Water Assoc. meeting	Faculty Mtg 8:30 am	Seminar Dr. Hong Li 11 am BHG 1	Plant Path & Friends 11 am	
				Citrus Pest Mgt Class 3-6 pm		
23	24	25	26	27	28	
	Time cards due	Seminar Dr. Jackie Burns 11 am		Citrus Pest Mgt Class 3-6 pm	Plant Path & Friends 11 am	
					3 pm Exchange Fair & Ice Cream Social	

4 - Seminar, Dr. Jim Syvertsen, CREC.  
 "Tree Canopy Microclimate and Fruit  
 Load Effects on Photosynthesis and  
 Carbohydrates in Citrus Leaves." 11  
 am - 12 noon (10:45 refreshments),  
 BHG 1.

12 - Supervisor's Meeting, Dr. H. Browning.  
 8:30 -10:30 am, Packinghouse Conf.  
 room.

17 - Citrus Research and Educ. Foundation  
 meeting. 10 am, Packinghouse Conf.  
 room.

18 - Florida Rural Water Assoc., "Focus on  
 Change" seminar. Drinking water and  
 wastewater utilities. BHG 1-2, 3-4. All  
 day.

20 - Faculty meeting, Dr. H. Browning. 8:30 -  
 10:30 am, BHG 3-4.

20 - Seminar, Dr. Hong Li, CREC. "Spatial and  
 Temporal Soil Variability Management  
 Using GIS and Remote Sensing  
 Technology." 11 am - 12 noon (10:45  
 refreshments), BHG 1.

25 - Seminar, Dr. Jackie Burns, CREC.  
 "Promising Abscission Compounds of  
 the Abscission Program." 11 am - 12  
 noon (10:45 refreshments), BHG 1.

28 - Surplus Supplies Exchange Fair and Ice  
 Cream Social. 3 pm, employee break  
 room, building 24. See p. 1 for details.

## Classes at CREC

### This Semester:

PMA 5205, Citrus Pest Management, Thurs.  
 3-pm, Dr. Duncan. BHG Teaching Lab.