



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



Citrus Leaves

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From the Director - Dr. Harold Browning

Congratulations are in order for several faculty at CREC. **Dr. Dennis Lewandowski and Dr. Siddarama Gowda**, both non-tenured faculty in the plant pathology working group, were recently notified of their promotion from Assistant in Virology to Associate in Virology. This promotion follows submission of credentials for review IFAS-wide, and is evidence of their academic contributions and contributions to the mission of UF, IFAS and CREC. Congratulations also are due **Dr. Bill Dawson**, Eminent Scholar in Plant Virology and **Dr. Bill Castle**, Professor of Horticulture, for being awarded the UF Professor Merit Award. These two individuals were selected from a pool of eligible Professors for their accomplishments and contributions to UF. Please join me in offering congratulations to these deserving individuals.

stay in communication as personnel timekeeping, approval, payroll and the entire array of business functions come on line. Your CREC staff has been investing heavily in preparing at year end for smooth transition and have been participating in extensive training modules. They are clearly our most important contact point for this new system. All of us will be directly and indirectly involved in this new system, and you will realize through this transition the quality of the support that you have in personnel and in the business office.

Their jobs of assisting you will be made much easier if you stay tuned to the implementation process and respond as needed to new procedures and processes. There will be challenges, delays, and other inconveniences of this transition, but we expect this new system to be a great improvement.

UF/IFAS Meeting July 12

Due to the changes brought about by the new system, and parallel changes in use of Foundation funds, gas credit cards, etc., we have scheduled a CREC-wide faculty and staff

meeting for all IFAS personnel for Monday, July 12 at 1:30 in BHG Rooms 1-2. An ice-cream break will follow at 3:00 p.m. for attendees. The meeting will focus on the new system and

see From the Director, p. 5



**UF/IFAS
 Faculty-Staff Meeting
 Monday, July 12
 1:30 - 3 pm
 BHG Rooms 1-2
 Required attendance
 Refreshments to follow**
 IFAS: if unable to attend,
 send e-mail to
 hwbr@crec.ifas.ufl.edu or
 srsg@crec.ifas.ufl.edu

UF Bridges

Well, the strain and uncertainties of UF's migration from the historic business and personnel data system to the People Soft Bridges system is now upon us. This topic seems to dominate the e-mail list, as well as hallway discussion at CREC, and undoubtedly beyond. A huge undertaking, this transition will bring about some major changes in both personnel and business operations, both locally and University-wide. Apprehension abounds as we learn more about how it will operate, who will be involved in interfacing with the enterprise business system, and how to cope with the wholesale conversion which is underway as we move into the 2004-05 fiscal year on July 1. MyUFL is now an important web stop for all, and we are spending time becoming accustomed to web tutorials. This next 30-60 days will be the major transition time, and I request that everyone

Dr. Andy Laurent submitted a letter of resignation to the Florida Department of Citrus as the director of scientific research. Dr. William S. Stinson has been named acting director.



Busy Month in Personnel Office: Dale Price (standing) and Eileen Albright (right) assist Meredith Morton with UF's new timekeeping system.

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. Writer, Meredith Jean Morton. Photography and graphics, 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.

Rain didn't wash away the fun for Mandi Chen, daughter of Dr. Chunxian and Huiqin Chen, at the CREC Picnic on June 4. Picnic Pics on pp. 4-5.



Mechanical Harvesting Gaining Momentum

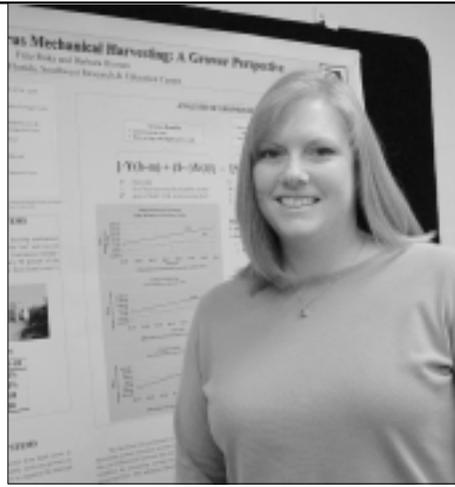
by Meredith Jean Morton

Robin Bryant says she has been 'running from the get-go' in her new position as Florida Department of Citrus Harvesting Program Administrator.

Bryant comes from a rich agricultural background since her father is a potato farmer in Hastings, FL, and she worked at the UF/IFAS research center in Hastings while living in the area.

Bryant accepted the Harvesting Program position in February 2004, after eight years as an agricultural research scientist for Tropicana. She said she has 'jumped into the Harvesting Program with both feet,' and anticipates further improvements in citrus harvesting efficiency.

Research on harvesting was initiated in the 1970s because the industry was facing labor shortages. The current program involves citrus researchers, growers, harvesters and processors to improve harvesting of citrus, while maintaining the best interest of all parties involved. In recent years, Bryant said the program has focused exclusively on mechanical



harvesting.

"We've been looking at ways to improve harvesting," said Bryant, who has a bachelor's degree in soil and water science and a master's degree in agribusiness from UF.

She said there are three mechanical harvesting systems currently used in the harvesting process. While other techniques are being considered, harvesters that shake the trunk and catch the fruit, shake the canopy and catch fruit, and shake the canopy and let fruit drop, have passed the research stage and accounted for nearly 20,000 acres harvested last year.

While 20,000 acres is only about 4 percent of the commercial citrus acreage in Florida, the amount represents the largest amount ever mechanically harvested, and Bryant is optimistic about future increases.

"I'd like to see more continued use of mechanical harvesting," she said. "It will come with more cooperation from everyone involved, and that's one of my goals."

Other elements of the harvesting program include abscission research (directed by Dr. Jackie Burns at CREC) and the development of robotic harvesting for fresh fruit.

"We have been working on robotic harvesting with the Agricultural [and biological] Engineering Department at UF in Gainesville to remove fruit from trees without bruising," she said. "I have seen the robotic arm identify fruit on a tree in a lab and pick it off. Next we're hoping to test this [means of harvesting] in a grove."

Bryant said this program is at least 5 years away from completion, and is looking to cooperate with the harvesting of other tree crops such as apples, peaches and cherries.

In addition to increasing the use of current mechanical harvesting technology, the

See Bryant, p. 6

Abscission Team Busy

Abscission research at CREC, led by Dr. Jackie Burns, includes studies to understand the process of abscission (which is the removal of a plant organ, such as a fruit, flower or leaf) and evaluate chemical agents that can be applied to the tree to selectively loosen mature fruit. This is particularly critical during this time of year for Valencias, with both mature and immature fruit on the tree.

In late June, scientists from the laboratories of Dr. Burns, Dr. Jim Syvertsen, Dr. Richard Buker and the Grove Crew collected samples from mechanical harvesting/abscission trials. Gretchen Baut was on hand to record video of the mechanical harvesters, and Dr. Monica Lewandowski recorded these images.

Upper panel, left: Robert Kleber operates the *goat*, a machine used to move tubs of fruit. Upper right: Danny Perkins maneuvers the trunk shaker into place. Middle row, near right: Dr. Igor Kostenyuk collects samples; far right, Dr. Fernando Alferez (left) and Rommel Rubio glean fruit from the tree. Bottom row, far left photo: left to right, Dr. Fernando Alferez, Baylis Carnes, Dr. Kuo-Tan Li and Josh Adkins collect fruit dropped by the trunk shaker.

Bottom center: Ana Redondo and Dr. Shila Singh collect samples; and far right, Zhencai Wu.



Meet . . . Dr. Zhang's Lab *by Meredith Jean Morton*

Dr. Jiuxu 'John' Zhang's laboratory with the Florida Department of Citrus conducts research on postharvest disease of citrus, as well as some pre-harvest work. The mission of the research is to understand the biology of postharvest diseases, and to develop customer-based decay control technologies to maintain citrus fruit quality, reduce post-harvest losses, and increase economic returns.

One of the primary areas of research is testing new fungicides on products to eliminate postharvest disease. Dr. Zhang said there are three new fungicides in the process for EPA registration.

Dr. Zhang and his team are also looking for safer alternatives to currently registered products for postharvest disease elimination. Dr. Zhang said there is importance in finding alternatives to some of the anti-disease products because of consumer concerns about chemicals on fruit. Other studies in Dr. Zhang's lab examine how pathogens cause disease. Knowing how a disease is caused gives researchers some clues to develop prevention strategies. With a lab located on the second floor of the packinghouse building, Dr. Zhang's team includes lab assistants Patricia Swingle and Nicole Buker.

Dr. John Zhang

(right) has been a faculty member of the Florida Department of Citrus as a research scientist II since 1999. A native of China, Dr. Zhang came to the United States in 1990 to pursue his Ph.D. in plant pathology from Texas A & M University. His bachelor's and master's degrees in plant protection are from the Northwest Agricultural University in China. Before coming to the U.S., Dr. Zhang worked as a research scientist from 1982-1990 at the Cotton Research Institute for the Chinese Academy of Agricultural Sciences.

After receiving his Ph.D., Dr. Zhang worked at a USDA-Agricultural Research Service facility in Oklahoma, where he studied postharvest disease on a variety of melons.

Dr. Zhang said he chose an agricultural major in college because he was raised in the countryside of China, however, he said when he started college, engineering was his first choice for a major. Later Dr. Zhang said he discovered 'agriculture was not so bad.'

Dr. Zhang met his wife Jui-li when working together in China. They have a



15-year-old daughter, Lisa, and a son, Jack, who is almost 10.

In his free time, Dr. Zhang plays tennis and enjoys fishing. He and his family also like to travel, especially to places with historic significance or natural beauty.

Patricia Swingle is a biological scientist who Dr. Zhang said "does all kinds of work for the projects." She has been working in Dr.

Zhang's lab for the past 18 months, and works particularly with chemical and physical methods to try to reduce postharvest decay.

With a bachelor's degree in chemistry from Duke University and graduate course work in microbiology from the University of North Carolina in Chapel Hill, Zhang said "Swingle is an asset to the lab."

Patricia has four children, Matt, Alicia, John and Joey, and is married to Hames. She enjoys art history and painting, and would like to write a children's book someday.



Nicole Buker (left) has been working in Dr. Zhang's lab since she graduated in December 2003

from UF, with a Bachelor's degree in chemical engineering and a minor in chemistry. In the lab, Nicole said she helps Patricia Swingle with fruit studies and does basic chemical research.

Dr. Zhang said that in the short time Buker has been working in his lab, "she has been doing a great job with everything."

Nicole said she loves to travel, but has little time to do so due to the hectic work schedule of her husband, Dr. Richard Buker. However, she said that before she dies she'd like to go everywhere, all over

the world.

Originally from Kentucky, Nicole chose to attend college at UF because of its reputable engineering school. She would still like to pursue a career in engineering, or in her other interest, forensic science.



Flavor is First for Dr. Valim

by Meredith Jean Morton

For Dr. Filomena Valim, the perfect glass of citrus juice is fruity and sweet, with some green notes, and she particularly likes orange juice because of its balance between sweetness and sourness.

As a researcher in the sensory analysis of juice, Dr. Valim transferred two months ago from a visiting scientist position with Dr. Russell Rouseff



the preferred citrus juice flavors of consumers.

to a research scientist position in the fresh juice program for the Florida Department of Citrus.

Mostly working with sensory analysis and consumer taste evaluation, Dr. Valim is researching

Sensory quality is the result of the interaction of the food characteristics with the human senses.

"Flavor preference involves the person's history, social, economic, cultural and physiological backgrounds," said Dr. Valim, who has a Master's degree in food science and a Ph.D. in food technology from the State University of Campinas in Brazil. "And it can be affected by a person's emotions."

The varied flavor preferences result in the variety of citrus products in the grocery store, Valim said.

see Dr. Valim, p. 6

2004 Picnic Pics

Food and water were in abundance at CREC's annual picnic on June 4, but as the evening wore on, the skies cleared up and some of us started to dry off. Besides, just ask twin brothers Julian and Michael McCoy (below), water only adds to the fun! (Julian is pictured in the left three photos; Michael is in the two photos on the right, Mom dutifully holding the water hose is Rachel McCoy).



The Entomology & Nematology and Extension working groups hosted this year's picnic. Special thanks to **Angel Hoyte**, picnic organizer, who cooked, cleaned and made everything happen! Others involved in this year's picnic included Denise Dunn, Clay McCoy, Ian Jackson, Robin Stuart, Sylvia Arnold, Michael Rogers, Harry Anderson, Richard Buker, Hannah Rogers, Larry Parsons, Larry Duncan, Peaches Mariner, Herb Nigg, Steve Futch, Terry Daghita, Kevin Troelsen, Diamond Basnaw, Wayne Tyler, Bruce Robertson, Marshall Hobbs, Patricia Brickman, Meredith Morton, Monica Lewandowski, Shelby Graham and Gretchen Baut. *Photos by Pam Russ, Samunder Singh and Monica Lewandowski.*



Umbrellas were popular accessories at the picnic. Left: Pete Timmer tries to keep dry; center, Russ and June Rouseff; right, the Whaleys.

Near right photo, left to right: Ian Jackson, Angel Hoyte and Robin Stuart; far right, Denise Dunn has some fun with Angel's son, Ruben.



Smiles, everyone! Near right: Divya Singh, Filomena Valim and Kanjana Mahattanatawee. Far right photo, left to right: Aman Kahlon, Amer Fayad and Shila Singh.



Above, from top clockwise: Larry Duncan, Robin Stuart, Steve Rogers and Herb Nigg. Below, Chunxian and Huiqin Chen and family enjoy the picnic.

Lower right: Gene Albrigo tries to hit the ball during the picnic's traditional volleyball game. Good one, Gene!



FSHS Best Paper Award To Schumann

The publication, "Response of 'Hamlin' Orange to Fertilizer Source, Annual Rate and Irrigated Area" by Drs. **Arnold W. Schumann, Ali Fares, Ashok K. Alva and S. Paramasivam** was named

Best Paper in the Citrus Section for the 2003 Proceedings of the Florida State Horticultural Society (FSHS), Vol. 116, at an awards ceremony on June 6 at the society's annual meeting in Orlando.

Photo, right: Dr. Schumann (left) is presented a medal, printed certificate and \$200 by FSHS President Craig Campbell. The publication, "Evaluation of Various Chemical Treatments for Potential as Methyl Bromide



Replacements for Disinfestation of Soilborne Pests in Polyethylene-Mulched Tomato," by J. P. Gilreath, T.N. Moltis, J.P. Jones, B.M. Santos, **Joseph W. Noling** (CREC) and E.N. Rosskopf received the

C o u n c i l
M e m o r i a l
T o m a t o
R e s e a r c h
A w a r d.

The FSHS A n n u a l Meeting, June 6-8, offered seminars in c i t r u s ,

handling and processing, fruits, vegetables, and ornamentals/landscape. Next year's vice-president for the citrus section is Dr. Kim Bowman from the USDA-ARS in Ft. Pierce. CREC's **Dr. Jim Syvertsen** is vice-president elect for the citrus section. The next vice-president for the handling and processing section is Dr. Joe Ahrens.

The FSHS Proceedings (1995-2002) are online at www.fshs.org. **Dr. Ed Exteberria** is the editor-in-chief. And, if you're not already a member, considering joining!

FSHS meetings include topics in not only horticulture, but also plant pathology, entomology, ag engineering and related topics for agricultural commodities in Florida.

From the Director, from p. 1

changes to personnel and business practices. Some brief presentations will be offered, but the primary purpose is to discuss changes such as elimination of Voyager Gas Cards, use of SHARE funds, and time-keeping, leave and payroll. Hopefully, your questions and concerns can be addressed. By July 12, we will have experienced one full payroll cycle and should have the 2004-05 CREC budget in place. *This meeting is required for all IFAS CREC employees unless you already have out-of-town plans. The Center Director's office will appreciate an e-mail if you are unable to attend.*

Looking Ahead

Finally, we are nearing the final stages of development of a UF, IFAS, CREC Strategic plan, a process which began in October 2003. Changes in the industry that we serve, and loss of faculty at CREC, UF and IFAS demand that we look ahead and formulate plans for programs, faculty and staff, facilities, and how to continue to grow our funding. A dedicated team has been meeting monthly with extensive follow-up with faculty and the citrus industry. We anticipate that the initiatives that will guide us towards 2010 and beyond will be defined and ready for presentation to the entire CREC community and our various clients by this fall. Then, the task of turning the plans into actions will begin. I appreciate the support of the Center and the industry as we take this important step, and look forward to working with all of you to imagine a future course for CREC.

Thanks to all of you for your part in the success of CREC!

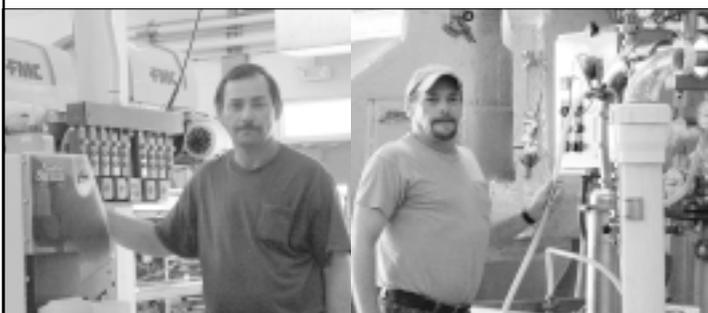
Harold Browning



Above, Dr. Jim Syvertsen is the CREC Vice-President Elect for the Citrus Section. Right: Dr. Gene Albrigo (right) and Sal Locasio at the FSHS social.



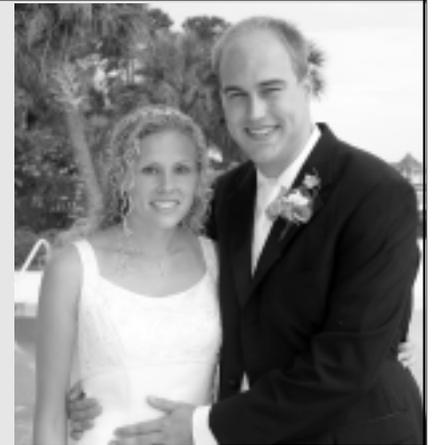
The FDOC's **Robin Bryant, Amy Carpenter and Tammy Flannery** (right) serve fruit slushes at the FSHS meeting. Below, **Virgil Stewart** (left) and **Merritt Daugherty** in CREC pilot plant.



Kristin (Waxman)

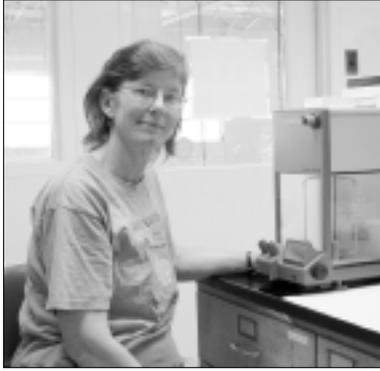
Nelson and Jared Nelson were married on June 6 in Kristin's hometown of Niceville. Kristin is a UF graduate student in Dr. Rouseff's lab. They met as chemical engineering undergraduates at Georgia Tech in Atlanta.

Kristin is working on her masters degree in Food Science/Flavor Chemistry, studying the effects of light and oxygen on juice flavor and the development of potential off-flavors. This area of research is pertinent to the increasing use of clear plastic containers for citrus juices. After completion of her degree at the end of the year, Kristin will work for the flavor company, Mastertaste, Inc., in Lakeland. Jared is a chemist for Florida Distillers in Lake Alfred.



Meet . . . Dr. Pat Tomlinson *by Meredith Jean Morton*

As a visiting scientist at CREC, Dr. Pat Tomlinson feels like she is coming home. Tomlinson, who is visiting Dr. Ed Exteberria, had her first postdoctoral fellowship at the University of Florida in Gainesville; citrus was the focus of this post-doctoral position as well as her Ph.D. dissertation. Dr. Tomlinson is pleased to be working at CREC.



global change project, looking for changes in the metabolism of red oak seedlings under elevated CO₂ and water stress conditions.

"Each of us brought a project to work together on," said Dr. Tomlinson of the projects on which she and Exteberria will be collaborating. "I have

been working with northern red oak for about 13 years."

Dr. Tomlinson worked with the northern red oak trees while a scientist for the forest service in Rhinelander, Wisconsin.

Dr. Tomlinson began searching for a position at a university while working for the forest service because she always wanted to teach. She had visiting professorships at the College of Charleston, in South Carolina, and at Washington and Jefferson College, in Pennsylvania, before beginning her current position at Berry College four years ago.

Dr. Tomlinson said she will be at CREC working with Exteberria for about a month.

Originally from the Virginia foothills of the Blue Ridge Mountains, Dr. Tomlinson is an assistant professor of biology at Berry College in northwest Georgia, teaching introductory biology to undergraduate majors and non-majors.

Dr. Tomlinson has a Ph.D. in botany from the University of California - Riverside, where she studied with Dr. Carol Lovatt (and shared an office with Dr. Debbie Sipes, wife of Dr. Bill Dawson, who was also a graduate student at the time). She and Dr. Exteberria are examining endocytotic mechanisms for sucrose uptake in plant cells.

In the process of endocytosis, a portion of the cell plasma membrane invaginates and pinches off a membrane-bound vesicle, something akin to "plant cells gulping food." Understanding processes associated with sucrose metabolism can help us understand processes important to plant growth, including fruit development.

In addition to this project, Dr. Tomlinson and Dr. Exteberria are also working on a

In The News

Dr. Harold Browning was featured in a "Monday Profile" in the Ledger on June 7. Also, news briefs in the Sunday's Business "People and Changes Section" included the Outstanding Weed Scientist Award to **Dr. Megh Singh** (6/6/04) a travel grant to **Dr. Michael Rogers** (6/6/04), and a American Society for Horticultural Science publication award to **Dr. K.R. Chung** (6/7/04). These pieces can be accessed in the Ledger online: www.theledger.com.

Robin Bryant earned a master's degree in agribusiness through the UF/IFAS Distance Education program. She was the third graduate of the program, which allows students to earn their degrees off-campus through courses taken via videoconferencing. Robin credits the participating faculty for making efforts to ensure that students in the distance education program received the same quality education as those on-campus. Several UF/IFAS distance education courses are available at CREC and numerous other locations throughout the state, many of which are offered as evening courses.

Bryant, from page 2

Harvesting Program strives to educate the citrus industry about advances in harvesting technology.

"We try to interest the growers in trying mechanical harvesting because of its benefits," Bryant said. "It can increase the productivity anywhere from two to ten times over hand labor."

She added that with increased use of mechanical harvesting, the cost of harvesting could be reduced by half.

"We may never reach 100 percent mechanical harvesting in Florida, but my goal is to get as close as possible," Bryant said. "We've reached four percent and the numbers are still increasing."

Dr. Valim . . . from page 3

"We have different products for different people," she added.

Dr. Valim said orange juice flavor is a very complex mixture in specific proportions, with over 200 volatiles, not all aroma active.

Different levels of these volatiles produce a variety of sweet, fruity, green, floral and other flavors in orange juice, giving it a different sensory quality.

Dr. Valim said she has always liked chemistry but wanted to pursue a more practical application. She found her practical application in food chemistry.

Growing up in Araras, Brazil, Dr. Valim was raised breathing in the chocolate aromas from the Nestle chocolate plant in her hometown. She also had several family members who worked for the food industry.

This exposure to food science encouraged her to become a food engineer, later teaching quality control, food technology and sensory analysis at Sao Paulo State University in Brazil.

Dr. Valim said she would like to do more specific sensory analysis on citrus juice while working for the FDOC to help the citrus industry especially marketing programs to understand and provide what consumers want.

"I'd like to select and train my own test panel for flavor analysis," she said. "They would be trained to identify the different flavor notes, so they could give more descriptive analysis of citrus juices."

Dr. Valim's husband, Marcos, is also involved with the citrus juice industry, working for Citrusuco, North America, in Lake Wales. They have three sons, Gabriel, 17, Rafael, 15, and Henrique, 12.

"I am very happy to be here," said Dr. Valim, who as a Ph.D. student in Brazil, would read material referencing scientists at CREC. "It is an honor and a pleasure to be a part of CREC as a research scientist."

Dr. Valim received her bachelor's degree in food engineering, master's degree in food science and a Ph.D. in food technology from the University of Campinas in Brazil. Incidentally, CREC's Dr. Chin Su Chen, retired UF Professor of Food Engineering, chaired the Food Engineering Department at the University of Campinas in the 1970s, where he was instrumental in establishing the food engineering program.

CREC Welcome

Ping Zhou - OPS (Dr. Gmitter)
 Dr. Jun Yu - Postdoctoral scientist (Dr. Cancalon, FDOC)
 Sylvia Arnold - OPS (Dr. McCoy)
 Shamel M. Alam-Eldein - Student (Dr. Albrigo)
 Dalia M. Shower - Visiting scientist (Dr. Nigg)
 Dr. Michael K. Simms - OPS (Dr. Childers)
 April R. Dozier - OPS (Dr. Albrigo)
 George Brinkley - OPS (Photolab, G. Baut)
 Dr. Lihua Cao - Postdoctoral sci. (Dr. Chung)
 Lorraine Jones - Fiscal assistant

CREC Farewell

David Hurley - OPS (Dr. Nigg)
 Nadine Cuyler - OPS (Dr. Nigg)
 Cole Barton - Ag assistant (Dr. Timmer)
 Kajal Biswas - Student (Dr. Lee)
 Kenneth Hagan - OPS (Dr. Albrigo)
 David Hafter - OPS (Dr. Parsons)
 Xiang Xu - OPS (Dr. Gmitter)
 Rudene Scott - Fiscal assistant (J. McDonald, Business office)
 Yolanda Peterson - Student (Dr. Lee)
 Dr. Erxun Zhou - Postdoctoral sci. (Dr. Chung)
 Robert Kleber - Ag assistant (Grove Crew, T. Gainey)
 Dr. Andy Laurent - FDOC Sci. Research Dir.

In Memory of Bea

Beatriz Nielsen-Palacios died of cancer on May 24. A service was held on May 28 at St. Matthew Catholic Church. Bea, who worked in Dr. Jude Grosser's plant improvement program, was highly regarded and greatly loved by many friends and colleagues. She is survived by her brother, Christian Nielsen-Palacios, of Ithaca, N.Y.; two sisters, Margarita Nielsen-Palacios, of



Vero Beach, and Ella Nielsen-Palacios; and mother, Beatriz Palacios de Nielsen.

In a letter to area newspapers submitted by Bea's brother, Christian expressed his gratitude for the support from family and friends. "In Winter Haven, my sisters' friends and co-workers at CREC rallied to comfort us with home made meals, personal visits and babysitting offers. Bea had made so many friends in her years in Florida that I finally understood why she (and my other two sisters) like Winter Haven so much," he wrote.

Christian has organized a relay team, "Team B," for the American Cancer Society's fundraiser, Relay for Life, in Ithaca in July. "The people of Winter Haven lost a great citizen when my sister died, but my family made many new friends in this wonderful city. If anyone would like to know how to contribute to Relay for Life, please send an e-mail to RELAYTEAMB@AOL.COM," Christian wrote. The family also said that donations in Bea's memory can be directed to the American Cancer Society, the Alzheimer's Association, Good Shepard Hospice or a charity of your choice.

In Memory of Mary Sirois

Mary Sirois, who worked in the CREC Business Office for over 16 years, passed away on May 28 at the age of 63. Originally from Pennsylvania, she moved to Florida in 1955 and graduated from Hillsborough High School in Tampa. She was preceded in death by her husband, George Sirois, and is survived by her sons Joseph "Joe" Sirois of Auburndale, Edward Morley of Columbus, Ohio, daughter, Susan "Sue" Sirois of Winter Haven, a brother,



Edward Kuhn II of Latrobe, Pa., and two grandchildren, Ryan and Leanna Morley. According to Sue, Mary was very devoted to her job at CREC and a very caring person. She enjoyed crafts, reading, computers, and spending time with her children. Sue said that Mary, who loved animals, loved babysitting Sue's seeing eye dog. She recalled that one of Mary's favorite things was visiting the shops in St. Augustine, where Sue attended the Florida Deaf and Blind School. Sue was able to care for Mary at home, as Mary wanted, during her bout with cancer. Sue and her brother, Joe, sent the following heartfelt thank-you note:

I would like to say thank you for all the warm thank you's at my mother's viewing. You all were her friends and I am sure that she would have wanted you all to be there. My brother and I want to thank you for all the cards and the flowers and the donations that you gave to us on behalf of our mother. You are all wonderful people. We both want you all to know that.

Thank you again,

Susan and Joseph Sirois

Ed. note - the family requests that donations in Mary's memory be made to LifePath Hospice. I apologize if there was confusion on the designation of charity with the Nielsen family request for donations to the Good Shepard Hospice (which was recently purchased by LifePath).

Manuscripts Submitted to the Publications Committee in June:

W. S. Castle, R. J. Schnell, J. H. Crane, J. W. Grosser, F. G. Gmitter, Jr., T. Ayala_Silva, and K. D. Bowman. Evaluation of New Citrus Rootstocks for 'Tahiti' Lime Production in Southern Florida. *Proceedings of the Florida State Horticultural Society.*

Z. Vilorio, B. Bracho, and J. W. Grosser. Immature Embryo Culture and Seedling Development of Acid Citrus Fruit Derived from Interploid Hybridization. *Plant Cell, Tissue & Organ Culture.*

K. T. Li and J. P. Syvertsen. Does Mechanical Harvesting Hurt Your Trees? *Citrus Industry Magazine.*

M. E. Parish. Chapter 10. Spoilage of Juices and Beverages by *Alicyclobacillus* Species. *Microbiology of Fruits and Vegetables.*

L. R. Parsons. What Happened to the Acid? *Florida Grower.*

S. H. Futch and J. W. Noling. Rootstock/Weeds Screen Saver. (*software*)

F. Alferez, B. Octavio, B. Alqueraz, L. Zacarias, and J. K. Burns. A Comparative Study of Postharvest Peel Pitting in Citrus Grown under Florida and Spanish Conditions. *Proceedings of the 10th Congress of the International Society of Citriculture.*

Q. Zaman and A. W. Schumann. Performance of an Ultrasonic Tree Size Measurement System in Commercial Citrus Groves. *Precision Agriculture.*

W. M. Miller, A. W. Schumann, and J. D. Whitney. Evaluating Variable Rate Granular Fertilizer Technologies in Florida Citrus. *Proceedings of the Florida State Horticultural Society.*

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