

Department of Horticulture and Landscape Architecture

Oklahoma State University

2005 Newsletter ♦ Teaching ♦ Research ♦ Extension

www.hortla.okstate.edu

Faculty

Dale M. Maronek, *Professor and Head*
Jeffrey Anderson, *Stress Physiology*
Louis Anella, *Ornamental Horticulture*
Gregory Bell, *Turfgrass Science*
Lynn Brandenberger, *Food Crops*
Todd J. Cavins, *Floriculture*
Janet Cole, *Ornamental Horticulture*
David Hillock, *Consumer Horticulture*
Michael Holmes, *Landscape Architecture*
Paul Hsu, *Landscape Architecture*
Brian Kahn, *Vegetable Crops*
Charles Leider, *Landscape Architecture*
Niels Maness, *Postharvest Physiology*
Dennis Martin, *Turfgrass Management*
William McGlynn, *Food Science*
Doug Needham, *Floriculture*
Steve Owens, *Oklahoma Gardening Host*
John R. Ritter, *Landscape Architecture*
Warren Roberts, *Vegetable Crops*
Michael Schnelle, *Ornamental/Floriculture*
Michael W. Smith, *Pomology*
Eric Stafne, *Fruit Crops*



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Please email rhiannon.battles@okstate.edu with your name and "Hort & LA newsletter" in the subject line so we can send next year's issue electronically.

Alumnus Receives Horticultural Fellowship

The Department would like to congratulate 2004 Public Horticulture Alumnus, Ed Moydell, for receiving the Louise Roselle Fellow in Public Horticulture. Ed Moydell is currently a Longwood graduate fellow at the University of Delaware. The award was presented by Roselle on Tuesday, May 3, at a picnic at the President's House for the 10 Longwood Fellows. The fellowship is awarded each year to a second-year fellow with high academic standing and an excellent research program and demonstrated team-building leadership potential. Moydell's thesis topic is "Developing a Strategic Plan for a Center of Excellence in Public Horticulture at the University of Delaware."



Joshua Steffen, Louise Roselle, and Ed Moydell

Shinoda Scholarship Winner!

Julia C. Brotton, a horticulture senior from Bartlesville, Oklahoma received a \$3,500 scholarship from the Joseph Shinoda Memorial Scholarship Foundation. This scholarship is awarded to students studying floriculture, horticulture and related fields. Only six Shinoda scholarships are given nationally each year, and Brotton's award is the highest value of the six scholarships.



Julia Brotton

Joseph Shinoda was a highly regarded pioneer of California's floral industry. Since 1965 the Joseph Shinoda Memorial Scholarship Foundation has awarded over \$644,000 to 579 undergraduates.

Alumnus Accepted into

Longwood Graduate Program in Public Horticulture

In the summer of 2005, Casey Sharber, a 2002 Public Horticulture alumna, began her studies at University of Delaware in the Longwood Graduate Program in Public Horticulture. This is a prestigious fellowship at Longwood Gardens, and the department would like to congratulate Casey on her achievement.



Casey Sharber

What are you up to?

We would like to let our readers know what our alumni are up to. Please send us an email with a notice about what you are doing so we can include it in our next newsletter. Please email updates to rhiannon.battles@okstate.edu.

2006 Oklahoma Proven Selections

Each year Oklahoma Proven recommends a tree, shrub, perennial, and annual for use in Oklahoma. Below are the selections for 2006. Oklahoma Proven is the brain child of the Department of Horticulture & Landscape Architecture and is supported by the Oklahoma Department of Agriculture and the Oklahoma Green Industry.

**Oklahoma Proven Selections for 2006**

Malus 'Prairifire', 'Prairifire' Crab apple

Physocarpus opulifolius Diabolo®, Diabolo® Ninebark

Agastache foeniculum 'Golden Jubilee', 'Golden Jubilee' Anise Hyssop

Torenia Summer Wave™ Series, Wishbone Flower

[Click here for Past Oklahoma Proven Selections](#)***Congratulations to our Graduates***

The department would like to extend its congratulations to the following students who graduated from our department.

Fall 2004

Craig Barnes
Christopher Basolo
Jeremiah Biswell
David Brown
Clifford Brunken
Casey Cox
Tyler Pierce
Bradley Roady
John Stephens

Kurt Feddersen
Alisha Grayson
Elisha Haddan
Katy Hallgren
Joshua Hill
Whitney Holsted
Casey King
Megan Moody
Justin Moss
Clifton Randolph
Sean Rohrbacker
Jenny Smith
Sarah Stinchcomb
Krista Toney
Samantha Wagner
Chad Weinrich
Luke Willis
Matthew Wilson

Spring 2005

David Akrabawi
Zachary Allen
Rebecca Bailey
Gretchen Benbenek
Cheryl Boyer
Amy Brothers
Amy Catlin
Courtney Cuenca
Lori Derichsweiler
Jon Bradley Dethloff

Summer 2005

Sophia Kamenidou
Xi Xiong

Competition Placings

Each year students participate in national and regional contests. The 2005 rankings are as follows.

Association of Collegiate Branches Horticulture Judging Contest at Southern Region ASHS in Little Rock, Arkansas, February 2005:

3rd Place - Outstanding Collegiate Horticulture Club
2nd Place - Vegetable Crop Team

64th Annual National Intercollegiate Floral Crop Quality Evaluation & Design Competition at University of Illinois, Champaign - Urbana, April 2005

2nd Place - Overall Team
2nd Place Judging Cut Flowers - Rachael Ramon
2nd Place Overall Judging - Rachael Ramon
3rd Place European Hand-Tied Design - Laura McDonald
3rd Place Door Swag - Megan Moody
5th Place Judging Cut Flowers - Ellen Weatherholt
5th Place Overall Judging - Ellen Weatherholt
6th Place Judging Cut Flowers - Matt Quirey

National American Society for Horticultural Sciences Association of Collegiate Branches Judging Contest at Las Vegas, NV, July 2005.

1st Place Vegetables - Rachael Ramon
1st Place Fruits - Ellen Weatherholt
3rd Place Overall - Ellen Weatherholt
3rd Place Vegetables - Ellen Weatherholt
3rd Place Fruits - Rachael Ramon

Mike Albert Recognized

The OSU Alumni Association recognized landscape architecture senior, Mike Albert as one of OSU's "Seniors of Significance."

Justin Moss Receives NACTA Award

Justin Moss, who received his Ph.D. in May 2005, was awarded the 2005 North American Colleges and Teachers of Agriculture (NACTA) Graduate Student Teaching Award at the June 2005 NACTA Conference. This award recognizes commitment to excellence in teaching and concern for students ranked among the very best in all colleges and departments of agriculture in the country. The criteria for receiving a NACTA teaching award is very stringent and only the most deserving teachers are recognized. Justin is currently Assistant Professor at the University of Wyoming. The department would like to congratulate Justin on his accomplishment.

Peruvian Studio Exchange Program

Dr. Leider and Professor Michael Holmes led OSU students to Peru for a three week Studio Exchange Program with Universidad Peruana de Ciencias Aplicadas (UPC) Architecture Program in Lima in May 2005. Dr. Leider arranged for the Landscape Architecture students and faculty from Landscape Architecture Program of Universidad Nacional Autonoma de Mexico (UNAM) in Mexico City to join the group in Lima to study with the OSU and UPC Architecture students. He had previous met the UNAM faculty and students through the LSU Luis Barragan Studio in Mexico City during summer of 2003. All the students in the program participated in a field trip to Pre-Columbian archeological sites in northern Peru, course work which included outdoor sketching, earthen architecture, studio project, and tour of built works in Lima, Cusco, and Machu Picchu.

In February 2006 the UPC and UNAM students and faculty plan to come to the OSU to work with the 4th year LA students on month long studio exchange projects followed by a return visit to Peru in May 2006.

Japanese Urban Landscape Design Study Abroad Program

The LA program conducted a three week study abroad program of Japanese historic and urban landscapes in May 2005. The study program involved the viewing of built landscapes in the Kyoto and Kameoka region in Japan for two weeks and one week in Thailand. A one day charette problem was given at the Landscape Architecture program at the Kyoto College of Art and Design and the Maejo University in Chiang Mai in central Thailand. The program is designed to improve the sketching ability of beginning design students. Professor Paul Hsu led the OSU group.

Scholarships and Awards

At our 30th Annual Departmental Awards Program on August 27, 2005, our students were awarded \$121,930 in scholarships for the 2005-2006 academic year and several special awards were given by the department. For a complete list of the department's scholarship and award recipients please [click here](#).

The department would like to extend a thank you to all of the scholarship donors. We appreciate your support of our students.

Sasaki Summer Internship Program

Mike Albert, one of the department's landscape architecture students, participated in the fifth Sasaki Summer Internship Program. Each year Sasaki strives to have the best

students from around the world join them for a ten-week long program including design charrettes, project work and field trips. In 2005 the program was made up of four landscape architecture students, two architecture students and one civil engineering student.

Departmental Support - A Special Thank You

The Department would like to extend its gratitude to the following individuals and companies for their support during 2005. Your support is essential for continuation of departmental research, teaching and extension functions. Contribution towards such programs as *Oklahoma Gardening*, the OSU Botanical Garden, departmental conferences, and our many research programs are a few examples of how your contributed funds are used. At a time when state allocations are shrinking, your continued support is greatly appreciated.

Agrochemicals, Allen Canning Company, APO, BASF, Bayer, Benary, Berger, Centest, Crookham Company, Davey Tree Expert Company, Dow Agro Science, Ewing Irrigation Products, Fine Americas, Fischer USA, First Class Selecta, Gowan Company, James Graber, Greenleaf Nurseries, Richard Hawkins, Marcia Higgins, ISK Bioscience, Jeffrey L Bruce Company, Keathly Nursery, Teresa Knox, Landscape Design, Bill Mackin, Mellano & Company, Mooreland Landscape, Monsanto, Ohio State University, Oklahoma Arborist Supply, Oklahoma Horticultural Society, Oklahoma Horticulture Industry Council, Oklahoma Pecan Growers Association, Oklahoma Turfgrass Research Foundation Inc, Paul Ecke Poinsetia Ranch, Pavestone, Phytton Corporation, Proven Winners, Root Control Inc, Ryan Lawn & Tree, Joseph Schulte, Shinnery Oak Gardens, Sooner Plant Farm, Sungro, Syngenta Professional Products, TLC Florist and Greenhouses, Darren Thompson, Toh Products, Vermeer Great Plains, Yoder Brothers Inc, U.W. Young

HRI Awards Spring Meadow Scholarship

Washington, D.C. — The Horticultural Research Institute (HRI), the research division of the American Nursery & Landscape Association (ANLA), has awarded the 2004 \$1,500 Spring Meadow Scholarship to Michelle B. Jantz.

Michelle Jantz is a resident of Drummond, OK and a senior at Oklahoma State University. She is a Landscape Architecture and Landscape Contracting Major with a minor in Horticulture. After graduation, Jantz will pursue a Master's degree in Environmental Science. She hopes that her knowledge of design, construction, and the environment will allow her to manage her own landscape architecture firm one day. She has a passion for developing low impact designs that enhance natural resources and restore the environment within urban settings.

Bright, well-trained and qualified people are essential to the nursery industry, which is the reason Dale and Liz Deppe of Spring Meadow Nursery initiated *The Spring*

Meadow Scholarship Fund in 1999. This fund is dedicated to helping aspiring students from across the country obtain a degree in horticulture. The scholarship fund is Spring Meadow's way of giving back, and sharing with others the excitement for plants and the nursery industry.

Founded in 1963, HRI has directed more than \$4 million of industry funds to some 600-research projects covering the full range of production, environmental and business issues important to the green industry. HRI distributed \$220,000 in grants for its 2005 scholarships and research projects initiative.

Faculty & Staff Recognition

The Department of Horticulture & Landscape Architecture would like to congratulate the following Faculty & Staff for their accomplishments:

Rhiannon Battles - 10 years of service
 Bruce Bostian - 25 years of service
 Lynn Brandenberger - received tenure as associate professor
 Charlie Gray - 40 years of service
 Paul Hsu - 15 years of service
 Charles Leider - 20 years of service
 Dennis Martin - 15 years of service
 Steve Owens and Kevin Gragg - Bronze Award of Achievement for the 2005 Garden Writers Association Media Awards program
 Steve Owens - 10 years of service
 Keith Reed - 10 years of service
 John Ritter - received the 2005 College of Agricultural Sciences and Natural Resources (CASNR) Outstanding Advisor Award presented by the CASNR Ag Student Ambassadors
 Mike Schnelle - 15 years of service
 Sharon Williams - 5 years of service

Students devote more than money to CASA fund-raiser

By Becca Baker, Staff Writer
The Daily O'Collegian
 Tuesday, February 22, 2005

The Oklahoma State University student chapter of the Associated Landscape Contractors of America raised \$1,100 for the Court Appointed Special Advocate Association.

The association helps neglected and abused children involved in juvenile courts.

Mikki Couch, the executive director for CASE, said CASA is a volunteer-based association that represents children who have been removed from their homes and are in foster care or care of the courts.

Couch said each year Stillwater's CASA program

holds its annual fundraiser to raise money to pay its case and training supervisors. This year's event was Feb. 11, and the early estimate of the total money raised is about \$44,000, Couch said.

Lou Anella, horticulture professor and co-advisor to the student organization, said the students auctioned 24 hours of labor. Citizen State Bank sponsored the organization with \$300, which went to the group's budget, while the student organization raised \$1,100 for CASA.

"I was really shocked the auction brought \$1,100. The bid was quite generous," Anella said.

Couch obtained the winning bid for the organization's labor, and, although an exact date is not set for when the organization will work for Couch, it will be sometime in March or April, Anella said.

"I'm so excited," Couch said.

The kind of work Couch has planned for the students' auctioned labor includes trimming shrubs, arranging flowerbeds, and preparing the yard for the spring, she said.

Joey Duvall, landscape contracting senior and president of the student organization, said the organization will send about 10 people at a time to work for Couch.

Duvall said the student organization connected with CASA through Anella. Duvall also said the group was lucky to raise as much money as it did because it was expecting to raise only about \$300.

However, Couch emphasized how much the students' work is valued.

"I think they were worth \$2,400." She said.



OSU Students Create a Food Product That Is Out of This World

By Carrie Leach
FAPC Communications Intern

The Food Science Club at Oklahoma State University won first place in the 2005 NASA Food Technology Commercial Space Center Product Development Competition. The team, which included team leader Dharmendra Bangalore, Yee Shyen, Sunita Mcwana, Fadi Aljorf, Shamira Fernandez and Dimple Kumar Kundiyana, developed the winning entry, Nutraffin, under the direction of their adviser and OSU food science assistant professor, Margaret Hinds. Nutraffin is a bite-sized carrot muffin snack made from fresh carrots, peanut flour, wheat flour, sugar, low-sodium baking

powder, cinnamon, cardamom and soymilk. "I am very happy that we won this competition, and would like to commend the team as well as our team leader," said Shyen, food product development graduate student. "This activity has given me the opportunity to learn a lot about the food product development process." With the collaboration of Hinds and the Food & Agricultural Products Center on the OSU campus, the students had the resources needed to create the award-winning product. "We have an inter-college food science program at OSU," Hinds said. "I feel these accomplishments will reflect positively on the strength of the partnership." The object of the competition was for the students to make a nutritional, beneficial food with only crops that can grow in space. The project started as a brainstorming session with the team discussing various ideas. They decided that they would compete using the carrot-based muffins and set out to fine-tune the recipe. Once the product was completed, the team conducted a sensory panel at the FAPC. Using the feedback received from the sensory panel, the team discovered the recipe needed some changes. "We made the needed changes, and the final batch was perfect," said Mcwana, food science doctoral student. Deciding on the right name for the product was a challenge for the team. The name, Nutraffin, was created to convey the nutritional value of the muffin. Nutraffin is high in fiber and protein and is a blend of necessary vitamins and essential minerals. Additionally, it is high in calories to provide a boost of energy in a single serving and is low in sodium and iron. The students put in many hours working on the project as a team. "The challenge was the schools that usually win these national-level, product-development competitions have been winning



them for the past five to 10 years," said Bangalore, team leader and food science doctoral student. "So, it was really rewarding for us to break the trend." This is not the Food Science Club's first time to compete in the competition. Last year, the team received a "Certificate of Excellence" for outstanding performance in the competition with the product "Veggie-to-Snack, a handy, spicy

space meal." "Having participated last year, we had a better idea of what the judges were looking for in the concept of the product," said Kumar Kundi y a n a, food and bioprocessing graduate student. "That prepared us for this year's entry." Fernandez, food science graduate student, said being



Fadi Al-Jorf, food science doctoral student, prepares the ingredients used to make the Nutraffin muffins as Shamira Fernandes, food science graduate student, stirs the ingredients well.

a part of the product development team was a very exciting experience. "I believe all the team members were very enthusiastic, and I credit the guidance of our instructor with the success of the product," Fernandez said. Aljorf, food science doctoral student, also agreed that working well as a team contributed to the group's success. "I think the main reason our team received this honor is that we were willing to help each other and open for new ideas for suggestion," Aljorf said. "We modified things many times, and everyone was willing to help accomplish the goal." Nurhan Dunford, FAPC Oil/Oilseed Chemist and last year's Food Science Club adviser, said she is very impressed and pleased to see the Food Science team win such a prestigious competition this year. "With this experience I am sure they will continue to be successful in future competitions," Dunford said. "We are proud of our team." The team earned a trip to the Institute of Food Technologists Annual Meeting and Food Expo in New Orleans, La. in July, and they will showcase their new product at the NASA booth. The team will also present their product and research to NASA officials at the Johnson Space Center in Houston, Texas in August. "I believe this will open doors for them as young scientists and should help to boost their moral and give them confidence," Hinds said. "By achieving this honor, the students are bringing with them not only hands-on experience but also scientific skills, creative thinking ability, as well as the ability to work on a team. All of these things are important."

2005 Publications

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- Cavins, T.J.** Experimental Plant Growth Regulator A 1699-DF Affects Flower Petal Pigmentation. (Submitted to Plant Growth Regulation Society of America Quarterly).
- Cavins, T.J.** Flurprimidol Rates, Soak Temperature, Soak Duration, and Surfactant Effects on Freesia (*Freesia x hybrida*) Leaf Length. *Plant Growth Regulation Society of America Quarterly* 33(2):62-65.
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2005 Grants**Louis Anella**

\$3,000 from Oklahoma Department of Agriculture, Food and Forestry. Oklahoma Proven.

Greg Bell

\$8,000 from ISK Biosciences. Unrestricted support.

\$3,000 from Syngenta. Turfgrass research.

Lynn Brandenberger

\$5,500 from the University of Florida. Screening Reduced Risk Materials for Weed Control in Spinach.

Todd Cavins

\$4,481.40 from Agrochemicals. Floriculture research.

\$275 from Benary, Inc. Floriculture research.

\$4,000 from Fine Americas. Floriculture research.

Janet Cole

\$3,852.08 from Greenleaf Nursery. Effect of Chemicals on Plant Growth.

\$3,000 from Phyton Corp. Effect of Chemicals on Plant Growth.

\$3,000 from Root Control. Effect of Chemicals on Plant Growth.

\$3,500 from Ohio State University. Effect of Chemicals on Plant Growth.

Brian Kahn

\$3,330 from IPM Mini-Grant. Innovative Cultural Controls for Management of Beet Curly Top Virus in Tomato.

\$150 from Crookham Company. Olericulture research.

\$500 from Syngenta. Olericulture research.

\$100 from Centest. Olericulture research.

Niels Maness

\$185,197 from United States Department of Agriculture. Harvesting, Handling and Quality Preservation for Horticultural and Alternate Commodities.

Dennis Martin

\$169,619 from the Oklahoma Department of Transportation. Roadside Vegetation Management Training, Consultation and Development of Learning Resources Project #2156.

\$50,373 from the Oklahoma Department of Transportation. Herbicide Research Project #2157.

\$15,000 from the National Turfgrass Evaluation Program. 2005 National Kentucky Bluegrass Test.

\$2,000 from BASF. Turfgrass research and extension.

\$100 from APO. Turfgrass research and extension.

\$4,000 from Monsanto. Turfgrass research and extension.

\$3,500 from BASF. Turfgrass research and extension.

\$14,000 from Dow AgroScience. Turfgrass research and extension.

\$4,000 from ISK Bioscience. Turfgrass research and extension.

\$4,000 from Bayer CropScience. Turfgrass research and extension.

Steve Owens

\$10,000 from Oklahoma Department of Agriculture, Food and Forestry. Oklahoma Urban Forestry Program in Oklahoma.

\$2,500 from Mooreland Landscape. *Oklahoma Gardening* underwriter.

\$3,000 from Oklahoma Horticultural Society. *Oklahoma Gardening* underwriter

\$3,000 from TLC Florist and Greenhouses. *Oklahoma Gardening* underwriter.

Mike Smith

\$7,386 from Oklahoma Pecan Growers Association. Pecan research.

Eric Stafne

\$5,000 from Oklahoma Pecan Growers Association. Pecan research and extension.

Yes, I want to contribute to the Horticulture & Landscape Architecture Program Support Fund

Name

Phone

Address

City/State/Zip

I pledge \$_____ to the following areas:

- Horticulture Landscape Architecture Landscape Contracting
 Turf Management Public Horticulture

My tax deductible gift of \$_____ is enclosed. ***Please make checks payable to the OSU Foundation.***

- I authorize the OSU Foundation to charge my checking or savings account via automatic bank draft in the amount of \$_____
 Monthly Quarterly Yearly for a total gift of \$_____.

- Please bill my gift of \$_____ to: Visa American Express Discover Mastercard

Card Number

Expiration Date

- This is a pledge. I plan to make payments in the amount of \$_____ per month for _____ months for a total pledge of \$_____.

Mail to:

***OSU Horticulture and Landscape Architecture Program Support Fund
 Director of Agricultural Gifts
 262 Agricultural Hall
 Oklahoma State University
 Stillwater, OK 74078
 Phone: 405-744-7964***



Join OSU Botanical Garden today and become an OBGA partner at the same time. By becoming a friend of the OSU Botanical Garden you will receive discounts to all OBGA workshops, a quarterly newsletter, special updates, plant sale privileges and annual subscription to *The American Gardener*.

Name

Phone

Address

City/State/Zip

To become a member complete and return this form along with your membership dues or contribution to:

OBGA
 360 Agricultural Hall
 Oklahoma State University
 Stillwater, OK 74078-6027

Any contribution in excess of \$30 is tax deductible and should be submitted separately with a check payable to OSU Foundation. All proceeds go to support OBGA programs and activities in Oklahoma.

Make checks payable to OBGA.

- \$20 Student
 \$30 Individual/Family
 \$120 Corporate Partner
 \$250 Sustaining Partner
 \$500 Garden Partner
 \$1000 Founding Partner