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Food Pest Management

How many times have you sat down to eat your morning breakfast cereal and found a bug doing the backstroke in your milk? Rarely? Once? Never? Hopefully, the reason that this is a rare occurrence, is due in part to the food pest management program.

The food pest management program is one of many programs of study in the Urban Center. This program focuses on the biology and management of pests attacking food post harvest. This is a very broad field ranging from management of insect pests attacking stored grain on the farm or commercial grain elevators or food processors and feed mills, retail outlets including "superstores," and traditional grocery stores, restaurant and commercial kitchens, and ultimately, into the home and your cereal bowl.

I work with some very common pantry pests such as Indianmeal moth, flour beetles, and cigarette beetles. They commonly infest dog food, bird seed, and most grain based products in your pantry, as well as those flour based holiday ornaments and wall decorations.

My research program focuses on development on non-traditional control strategies to manage stored grain pests. Usually this focuses on changing the environment so it is less favorable for insects. The first major emphasis of the program was using cold air to manage pests. Insects are very susceptible to changes in their environment. Thus, reducing grain temperatures to winter-like conditions during the summer has serious effects on population development. We were able to significantly reduce pest problems in chilled bins and do it at the cost of a traditional chemical fumigation.

Another technology that the food pest management program has taken to the commercialization phase is ozonation of grain. Ozone is a powerful oxidant that has numerous beneficial applications. Ozone has been used as a water treatment to disinfect, eliminate odors, taste, and color, and to remove pesticides, inorganic and organic compounds. Agricultural applications of ozone include the storage and preservation of vegetables and fruits, the surface decontamination of perishable foods, and the disinfection

of manufacturing equipment, water and packaging materials.

We wanted to examine ozone as a replacement for methyl bromide fumigation of raw grain commodities. Ozone is attractive because its breakdown product is oxygen, thus leaving no undesirable residue. Ozone can be generated on-site, eliminating the need

to store or dispose of chemical containers.

Numerous experiments indicated that ozone was a very effective insecticide against most stored product pests. Our most recent experiments indicated that treatment of grains with 50 ppm ozone for 30 days had no detrimental effect on popping volume of popcorn; fatty acid and amino acid composition of soybean, wheat; and maize; milling characteristics of wheat and maize; baking characteristics of wheat; and stickiness of rice. The data indicated that if repeated ozonations were needed, such treatment should not decrease the quality of grain for end-users. This is important to food processors, millers, and feed manufacturers since the cleanliness of the final product they put forth to the retail market is dependent on the quality of raw ingredients. Ozonation will allow them to start with pest free raw ingre-



CONTROLLING FOOD PESTS: Linda Mason uses a chill method to control flour beetles.

(Food Pest Management continued on page 2)



Steve Yaninek

From the Head Bug

Endowed Chair in Urban Entomology

The Department of Entomology has initiated a campaign to raise \$1.5 million to endow a chair in urban entomology. This is the number one development priority and a critical component of the Department's strategic plan to move to the next level of excellence. This endowed chair would raise the stature of an already outstanding program in urban entomology, and signal a new commitment to excellence between the University and the pest management and related industries. An endowed chair will have an immediate and powerful impact. It will boost Purdue's already strong reputation in urban entomology and allow the Department to attract the brightest students and scholars.

This endowment would create a dedicated faculty program focused on urban insect pests, particularly those of public health concern. The program would provide industry access to cutting-edge technology and its applications in urban pest control. Other benefits include the synergy generated by a program with both basic and applied research, and interactions with the established urban program at Purdue. Perhaps most importantly, this provides a unique opportunity for industry to be a partner in establishing a new cutting-edge faculty program and develop a sense of ownership in the process.

Insect pests are the principle focus of the multi-billion dollar urban pest control industry. Social insects are the most economically important pests of urban landscapes. Ants are the single largest source of income of most pest control businesses today, while estimates of the damage caused by termites exceed \$2 billion annually worldwide. The recent introduction and spread of West Nile Virus transmitted by mosquitoes is a major new public health concern sweeping across the country. New approaches to managing these pests in urban environments are needed. A deeper understanding of the biology, ecology and evolution of these organisms is essential to develop strategies that go beyond current technologies, and which maintain their utility in a changing regulatory environment.

The Department of Entomology can immediately add prestige and world-renowned expertise to its urban program by endowing a chair in urban entomology. An individual with the necessary modern research perspective and field experience will be ideally suited to develop the tools needed to gain the critical knowledge required to make significant advances in the field. The Department will look for an individual whose interests and program will be driven by fundamental aspects of the biology of social and other urban insects, and whose work will have significant impact upon the management of these insects as pests. This person will also have the skills to work with a diverse clientele and other disciplines to achieve the impact expected of a chaired professorship. In addition, this individual will benefit from and establish long-term significance by embracing the well-developed network of collaborators in industry and at other academic institutions.

For more information about this campaign contact **Steve Yaninek** at yaninek@purdue.edu.

- Steve Yaninek -

Department News

Births: A son was born to **Nagesh Sardesai** and **Shubha Subramanyam**. Tushar Sardesai was born on October 23, 2002. Nagesh and Shubha are both post-docs with **Christie Williams**.

Elizabeth Marie was born on December 8, 2002 to Matt and **Jody Pearson**. Elizabeth has two sisters at home, Samantha and Olivia. Jody is an account clerk in the Business Office.

Rachael and **Josh Hunnicutt** welcomed the birth of their daughter, Grace LeeAnn, on March 2, 2003. Josh works as a Nematology Lab Assistant for **Virginia Ferris** and **Jamal Faghihi**.

Chad Craighill and wife Carrie are the parents of daughter, Carly, born January 20, 2003. Carly has a brother at home named Camdon. Chad is a Computer Specialist and IT Manager.

(Food Pest Management continued from page 1)

dients without a reduction in taste or quality of the finished product.

Another service we provide to the food industry is testing of package design. Many food pests are very capable of penetrating packaging and infesting a finished packaged product. Our lab is set up to test new packaging designs for resistance to insects. This would include testing package sealing technologies, new types of packaging materials, and the design of the package. The perfect package for insect resistance would be a perfectly round ball with no edges for the insects to bite through. Unfortunately, this is not practical for shipping or storing in your cupboard. Thus, food manufacturers are constantly testing new designs to deliver fresh tasting, pest-free products to the consumer.

In summary, food pest management not only focuses on pest biology and ways to eliminate them, we also look at ways to prevent them from ever becoming a pest in the first place. So tonight when you bite into that biscuit at dinner, take time to thank the food pest management program at Purdue. We are working everyday to keep your food pest free!

- Linda Mason -

2002 Provost Recognition

The following Entomology staff were recognized for years of service at the 2002 Provost Recognition Program on January 23rd:

Ronald L. Blackwell - 10 years
Amanda S. Brandt - 15 years
Timothy J. Gibb - 15 years
John L. Obermeyer - 15 years
Jim W. Pheasant - 20 years

New Staff:

Jodie Ellis joined the Department in June 2002 as Gypsy Moth Education Coordinator. She works directly with **Cliff Sadof** on gypsy moth and invasive insect species concerns for the State of Indiana.

Nichole Kubly, began her duties January 13th as Business Office Manager. The Entomology Department will share Nikki with Biochemistry, CERIS and the Indiana State Chemist Office.

Dan Harmeson has been working as a part-time lab technician for **Linda Mason** since January of 2000 and recently became full-time on December 9, 2002.

Departing Staff:

Cherise Hall has transferred her duties as Business Office Manager in Entomology, Biochemistry, and the State Chemist Office to work in the Business Office at Ag Administration as Business Manager-Ag Sponsored Research Programs.

Martha Hill, Outreach Coordinator, began working as Director of Public Programs at the Eiteljorg Museum in Indianapolis in January.

Mikio Yoshiyama, Postdoctoral Research Associate USDA-ARS with **Richard Shukle**, will be leaving the Entomology Department on April 1, 2003, to do postdoctoral research for Cambridge University in England.

Corey Gerber, (B.S. '93, Ph.D. '03), Extension and Research Associate with **Rich Edwards**, will be joining the Department of Agronomy at Purdue as Interim Director of the Diagnostic Training Center. Corey will work part-time February-March, and full-time until the end of October.



Rich Edwards

2003 Fulbright Research Scholar

Richard Edwards was selected as Fulbright Research Scholar for 2003. He will be going to the University of Zabreb in Croatia for nine months beginning late February 2003.

The flagship international education program sponsored by the United States Government, the Fulbright Program is designed to "increase mutual understanding between the people of the United States and the people of other countries." It offers the opportunity to study and teach in each other's countries, exchange ideas, and develop joint solutions to address shared concerns. The Fulbright Program was established in 1946 under legislation introduced by former Senator J. William Fulbright of Arkansas.



Jenny Franklin

2002 Outstanding Service Award

Jenny Franklin was named the 2002 Outstanding Service Award winner in Entomology. She is the graduate/undergraduate secretary for the Department and Bug Bowl Coordinator. Jenny has worked in the Department for five years but has worked at the University for 21 years. All of our students rely on Jenny to assist them with their course scheduling, records, and day-to-day questions concerning their requirements. Jenny also does a remarkable job at coordinating Bug Bowl each year.

Yan Ong, a high school student at West Lafayette High School won the gold medal in zoology at the Lafayette Regional Science Fair in March 2003 for his project titled "Antibacterial Responses of *Manduca Sexta* Larvae Fed With Nonpathogenic Bacteria." Yan has been supervised by **Peter Dunn** since September of 2002 on this project.

Ruth Hegarty, a junior at Jefferson High School in Lafayette, IN, and daughter of **Joseph Hegarty**, Project Manager, EXCERPT/CERIS, in the Entomology Department, has been working with **Linda Mason** for the past two years on science fair projects. Ruth received a silver medal in zoology, and an honorable mention in the special awards category at the Lafayette Regional Science Fair in March 2003. The title of Ruth's project was "Influence of Sanitation Level on the Efficacy of Tribolium Pheromone Traps." Last year, she won a bronze medal.

2003 John V. Osmun Award

The 2003 John V. Osmun Alumni Professional Achievement Award in Entomology solicitation will use an electronic nomination form instead of the usual printed form sent in the fall newsletter. To access the nomination form; go to the Entomology website at:

www.entm.purdue.edu/osmunaward

2003 Distinguished Ag Alumnus



Albert Lund

Albert Lund (M.S. '74, Ph.D. '78), was selected as recipient of the 2003 Distinguished Ag Alumni Award. The award recognition ceremony will be held on Friday, April 25, 2003, 9:30 a.m., Fowler, Stewart Center, Purdue University.

Dr. Lund began a career with DuPont in 1980 and currently works as Manager, Research and Development Asia-Pacific for DuPont. In this role, he has the responsibility for all R&D activities, people, facilities and resources for the Asia Pacific Region including organizations in 13 countries stretching from Pakistan and India in the west to Japan and New Zealand in the east. Al is married to **Dottie Lund** (M.S. '75). Congratulations, Al!



Cliff Sadof

2002 PUCESA Award

Cliff Sadof received the Purdue University Cooperative Extension Specialist Association (PUCESA) Senior Award in September 2002 for being a state and national leader in the development of pest management systems for the ornamental plant industry.

Development Update

Friends of Entomology

The Honor Roll that follows recognizes those who made gifts to our "Friends of Entomology" since March 2002.

Monarch Club (\$1000 up)

Mr. & Mrs. C. W. Bartholomai
Dow Chemical Foundation
Dr. & Mrs. John Osmun
Mary E. Schuder

Honey Bee Club (\$500-\$999)

R. Bruce Cummings
Dr. & Mrs. Eldon Ortman
Dr. John Owens
Dr. & Mrs. Robert Tarver

Firefly Club (\$101-\$499)

Dr. & Mrs. Andrew Bednarik
Judith Beecher
Mr. & Mrs. Kenneth Broda
Bill Butt
Jeffrey Froehle
Dr. Robert Gallun
Lockheed Martin Matching Gift Program
Dr. & Mrs. Harlan McMillan
David K. Mueller

Mayfly Club (up to \$100)

Mr. & Mrs. Kenneth Ash
Joy Beckett
Beck's Superior Hybrids, Inc.
Jacques Berlin
Mr. & Mrs. Robert Brattain
Dr. & Mrs. Michael Culy
Dr. & Mrs. Peter Dunn
Robert Fosler
Suzanne Gens
Christopher Harlow
John Heck
Jeffrey Hill
Joseph Isbell
Dr. & Mrs. Stephen Johnson
Johnson Trust Company
Monica Kelley
George Thomas LaRocca
Dr. Henry Lawson
Dr. John McHugh
Lynn Moore
Rollins, Inc.
Dr. Erik Stephan Runstrom
Dr. & Mrs. Eric Smith
Whitmire Micro-Gen

Outreach Update

Various outreach activities have taken place in the last few months that were sure to spark interest from even the most insect leery participants.

The Entomology Department participated in the Hoosier Association for Science Teachers (HASTI) in Indianapolis on February 20-21. There were two very productive days of talking with science teachers about bringing entomology into the classroom. We believe that through the teachers, we can introduce entomology to students at an early age. This is one of many ways to reach students and teach them about the career opportunities available with a degree in entomology. Many teachers told us that they have Madagascar hissing cockroaches as pets in the classroom and that the children, for the most part, are very interested in caring for them and learning about their classroom pet.

The Department held its second Day in the Department on April 4. This is a day where we invite 4-H entomology winners to the Department to learn a little bit more about entomology and where it can take you. Students visited research labs, attended an actual entomology class, toured the department's insect collection, and learned about careers in entomology.

The 13th annual Bug Bowl, held on April 12-13 on the Purdue campus, was part of the SpringFest event at Purdue. There was cockroach racing at Roachill Downs, a petting zoo, chocolate covered crickets, honey bees and honey tasting, foods cooked with insects, and face painting. Cricket spitting was one of the main attractions at Bug Bowl. The cricket spitting contest made its debut in 1997 and is sanctioned by the Guinness Book of Records. Check the Bug Bowl website at: www.entm.purdue.edu/Entomology/outreach/bug_bowl/index.html.



ON STAGE: Tom Turpin speaking to a group of grade school students as part of outreach.



DAY IN THE DEPARTMENT: Jeff Stuart explains molecular genetic research to 4-H students.



GO PETE GO! Roachill Downs cockroach race at Bug Bowl.



WALKING STICK: Joy Beckett, Secretary in Entomology contemplates the size of this New Guinea walking stick at Bug Bowl.

Entomology Students

2003 Entomology Scholarships



SCHOLARSHIP WINNERS: (l-r front row): Eric Rebek, Marcus McDonough, Megan Corso, Jesse Hoteling, Lori Sulek (l-r 2nd row): Prof. Linda Mason, Jody Aleong, Michael Meyer, Kim Rebek, Josh Riggan, Casey Butler, Kristin Saltzmann, Dale Whitaker (Assoc. Dir. and Dean of Academic Programs), Chris Durnil (l-r 3rd row): John Gretencord, Al Fournier, Randy Hamilton, Lu Sun, Joao Pedra, Kurt Saltzmann, Kris Wyckhuys.

Jolene Hurt has been named one of twenty-three 2002-2003 Lewis Runkle Scholars. Jolene hales from Martinsville, IN and has an expected 2004 graduation date. Lewis Runkle, and his brother and sister, operated a very successful apple orchard in Edinburgh, Indiana, for more than sixty years. They also raised agronomic crops and cattle.

Lauren Street and **Anne Radavich** have been named two of fifty-two School of Agriculture juniors selected to receive a Rex Hall Memorial Scholarship to be used in 2002 and 2003. Selection of junior Rex Hall Memorial Scholarship recipients is based upon outstanding academic achievement as a sophomore, including at least a 3.50 grade point average. Lauren is from Wabash, IN and has an expected graduation date of 2005. Anne is from Post Falls, Idaho and has an expected graduation date of 2003.

Casey Butler has been named one of fifty-three School of Agriculture seniors selected to receive an Elsie L. Gruel Scholarship for 2002 and 2003. Casey is from Walkerton, IN and has an expected graduation date of 2003. Selection of this award is based on outstanding academic achievement as a junior, including at least a 3.50 grade point average.

2002 December Graduate

Miguel Arechavaleta-Velasco received his Ph.D. in December, focusing on behavioral genetics; using molecular techniques. Miguel is working as a postdoctoral student in Statistics at Purdue before returning to his home in Mexico.

Spring 2003 Students

Undergraduate:

Tiffany Roemke, a senior who transferred from Botany and Plant Pathology, and whose home is in Harlan, IN.

Graduate:

Jeff Webb, a Ph.D. student in aquatic entomology with **Pat McCafferty**, is from Saskatoon, Canada.

Summer 2003 Students

The Department has three new graduate students starting this summer. **Lavanya Polana** will be coming from India and will be working towards her Masters degree with **Peter Dunn**. **Fu Chen** is from the People's Republic of China and will be working towards his Masters degree under the direction of **Greg Hunt**. **Rajat Aggarwal** is from India and will be working towards his Ph.D. with **Jeff Stuart**.

Luke Jacobus, Ph.D. student with **Pat McCafferty**, was married to Barbara Lynn Hass on March 15, 2003, in Bad Axe, Michigan. Barbara is a postdoctoral student in the Agronomy Department at Purdue.



*Student line drawing by:
Casey Butler*

Outstanding Students in Entomology

Tyler Janovitz, **Lauren Street**, and **Anne Radavich** have been recognized as the outstanding freshman, junior, and senior, respectively, in Entomology this year. These students will now compete for the School of Agriculture outstanding student awards to be announced in April 2003. Tyler is from Lafayette, IN, Lauren is from Wabash, IN, and Anne is from Post Falls, Idaho.

Kim Rebek, M.S. student with **Bob O'Neil**, was nominated by the Department for the Celebration of Graduate Student Teaching Award. This award is for graduate students who teach for their department. The students are honored at a banquet held on April 17, 2003. Each student receives an engraved plaque in recognition of their excellence in teaching.

Kim also won 2nd place in the student competition of the North Central Branch ESA annual meeting in Madison, WI in March 2003. The poster was titled "Garlic Mustard Population Ecology in Indiana: Opportunities for Biological Control."

Quiz Bowl 2003

The Thomas Say Society held a Teacher Quiz Bowl on February 25, 2003 to let students discover just how much their teachers really know. The questions ranged from general entomology knowledge, facts about Purdue, and questions about other faculty, staff, and graduate students. The participants included (Team 1) **Al York**, **Chris Oseto**, and **Tim Gibb**. Team 2 included **Gary Bennett**, **Tom Turpin**, and **Steve Yaninek**. Team 2 proved to be victorious and won the trophy.



QUIZ BOWL CONTESTANTS: (l-r) **Tim Gibb**, **Chris Oseto**, **Al York**, **Gary Bennett**, **Tom Turpin**, **Steve Yaninek**.



Meet Lu Sun

Lu Sun

I am from Beijing, China. I have been a fan of insects since childhood. After I graduated from high school, I joined the Department of Entomology at China Agricultural University, the best entomology department in China, to realize my dream of being an entomologist.

I received my bachelor's degree in 1996. My research was on the butterfly fauna from Qinling Mountain, a gorgeous mountain where giant panda, monkeys, and deer dwell. Since I also had a great deal of interest in wild animals, in my spare time, I took part in the Giant Panda study carried out by Peking University research team, and helped monitor wild Giant Panda in the field. It is during these field trips and following study when I figured out that systematic entomology is really where my main interest and enthusiasm are. Thus, I applied for graduate study under Dr. Wanzhi Cai, a knowledgeable Heteroptera systematist in the same university, and joined the Laboratory of Systematic and Evolutionary Entomology. My project was systematics of family Berytidae (Heteroptera: Lygaeoidea) from China based on morphological characteristics. At the same time, I began learning about molecular systematics. I performed RAPD study using MtDNA to clarify the phylogenetic relationships in a species group, *Ectomocoris atrox* complex (Hemiptera: Reduviidae). Of course, in the warm seasons, I went outdoors collecting specimens. I participated in several surveys on insect biodiversity in subtropical areas of China, including Henan Province and Yunnan Province.

I received my masters degree in 1999. I planned to continue my career in systematic entomology in the U.S. since the research on theory and application of systematics appeal to me so much. Later that same year, I applied for graduate study for my Ph.D. degree at Purdue University, and was accepted by **Pat McCafferty** in his aquatic entomology research program. My

research focuses on systematics of mayfly family Caenidae, which could be separated into several projects. First, I analyze generic level phylogeny of the family, and describe new genera and new species from tropical Africa, Australian and Oriental regions, and make necessary adjustments to the higher classification. Second, I compile a worldwide species catalog for the family. Third, I create a phylogenetic revision of subfamily Brachycercinae. There have been lots of interesting discoveries in my research on morphology and systematics and I am incorporating them in my thesis. Meanwhile, I am working on molecular systematics under the instruction of **Virginia Ferris**. I am performing research on molecular systematics of mayfly suborders Setisura and Pisciforma using 18s rDNA. I am very curious to see the phylogenetic relationships generated from molecular information and the influence it will have on morphological systematics. Also, I am working on sequencing 18s rDNA from some interesting marine nematodes, which will probably give light to the phylogeny of certain nematode orders.

I plan to have my thesis done by this coming summer. After I obtain my Ph.D. degree, I will apply for a post-doctoral position in the United States. Eventually, I would like to get a faculty position in a university, or other research institute since I want to keep working on systematic entomology. I always wanted to work on systematics of mayflies from China and South Asian and other tropical countries because people still have such little knowledge of mayflies in these regions.

I have many hobbies in my spare time which include traveling, reading, and photography. I like running and volleyball a lot, but I also enjoy computer games. However, I think that the one thing I like most is field trips. I still remember how much fun I had in 2000 when all members of our lab went to Nebraska, South Dakota, Wyoming, and Montana together for a wonderful collecting trip.

- Lu Sun -



Bobby Corrigan

PCT Magazine has named **Robert M. Corrigan** (B.S. '77, MS '80, Ph.D. '95), the founder and president of RMC Pest Management Consulting in Richmond, Indiana, its 2002 Professional of the Year. For 15 years, prior to founding his own consulting company, Bobby was a teacher and researcher in urban and industrial pest management at the Department of Entomology at Purdue...**John Hamm** (M.S. '63, Ph.D. '72), retired in May of 2000 after 37 years with the USDA-ARS in the area of insect pathology. His wife, Judie, retired a few years earlier after 14 years with the University of Georgia, Department of Plant Pathology. They have decided to remain in Tifton because they have a daughter and two grandchildren there. Their other daughter and two younger grandchildren live in South Carolina. John volunteers with the Literacy Volunteers of America, tutoring Hispanics in English and tutoring math and science to people working on their GED's...**Kevin Steffey** (B.S. '72), M.S. from the University of Missouri in 1975 and Ph.D. from Iowa State University in 1979 (all degrees in entomology), landed the position of Extension Specialist in Entomology at the University of Illinois in April 1979. Currently, he is a professor and extension specialist in entomology in the Department of Crop Sciences at the University of Illinois, Urbana-Champaign. The focus of his educational and applied research programs is management of insect pests of field crops, primarily corn, soybeans, and alfalfa. He has been active in ESA and is currently vice president. He will become president at the annual meeting in Cincinnati, in November 2004...**Milan Busching** (M.S. '75), is in charge of the Insect World Exhibit

at the 25th Anniversary in August 2003 at the Cincinnati Zoo. The Zoo has been remodeling and is sure to surprise you when you visit...**Vinnedge "Vin" Lawrence** (Ph.D. '68), retired from the Biology Department at Washington and Jefferson College last June. He is now living in Maine...**Ron Bitner** (M.S. '70), received the Owen J. Newlin Business Excellence Award from Pioneer Hi-Bred International for collaborative work with Pioneer Hi-Bred International, Australian Quarantine and Inspection Service (AQIS) and Commonwealth Scientific & Industrial Research Organization (CSIRO) Black Mountain facilities in Canberra on the introductions of the Alfalfa Leafcutting Bee into Australia. For the past 8 years, he helped develop the protocol (part of which was based on his 1970 M.S. thesis) to safely introduce this highly efficient pollinator into Australia from Canada. Eight hundred thousand adult bees were released at two sites in South Australia and one in New South Wales. The objective of the project is to develop a leafcutting bee industry there to help alleviate anticipated pollination problems with the honeybee industry. This program has been influenced by his work with Indiana bees under his mentor **Leland Chandler** (M.S. '70). More information on the company can be found at <www.pollination.com>.



COLLABORATIVE WORK: Ron Bitner (2nd from left) with Pioneer Hi-Bred International Australia personnel at the release site in a lucerne seed production field in Cowra, New South Wales.



QUARANTINE INSPECTION: Introduced pollinators (top photo) are inspected (bottom photo) for unwanted parasites and diseases.



ON CAMERA: Australian nature series "Totally Wild."

Attention Alumni

Entomology at Purdue newsletter is now available online. The electronic version will be sent bi-annually by email between mailings of the printed version. Past copies of the electronic newsletter as well as the printed versions are available to view at <www.entm.purdue.edu/entomology/news/alumni.html>.

If you are not receiving the electronic newsletter by email and would like to receive it; go to <www.entm.purdue.edu/alumni/update.html> to update your information for our alumni database. Please include your email address.

From Insects to Investments



Charles Allmon

Charles Allmon (B.S. '41) has come a long way since his undergrad days at Purdue. He is president of Growth Stock Outlook which he founded in 1965. He has managed discretionary accounts since 1970 for clients in the U.S. and foreign countries. Growth Stock Outlook, Inc. offers private money management for individuals, retirement plans, foundations, corporations, and trusts.

Formerly one of the top editors of *National Geographic*, he lived abroad for seven years and traveled in more than 60 countries on five continents. Many people owe their understanding of other countries and cultures to the work of Charles Allmon. He truly has helped to make the world a smaller place.

A recognized authority in the investment community, Charles Allmon has been featured in major articles in *Barron's*, *Forbes*, *The New York Times*, *Money Magazine*, *Financial World*, *The Wall Street Journal*, *Changing Times*, *Fortune*, and newspapers throughout the United States. He has lectured at the Harvard Business School, Wharton School, and the Yale Business Forum. He holds the "Distinguished Service Award" from the National Association of Investment Clubs for outstanding contributions to investment education. In 1994, he was awarded an honorary doctorate from Purdue, the university's highest honor, and is listed in *Who's Who in the World*.

He has appeared numerous times as a special guest on Wall Street Week, Nightly Business Report, CNN, CNBC, Good Morning America, Crossfire, and MacNeil/Lehrer News Hour.

Charles Allmon is an extraordinary man who has lived life to the fullest and has certainly succeeded in his career endeavors.

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March

17-21 Spring Break
23-26 NCB/ESA Annual Meeting, Madison, WI

April

1 Osmun Award Nomination Due
4 Day In The Department
12-13 Bug Bowl
23-24 Entomology Development Council-Greenfield,
25 IN Distinguished Ag Alumni Events

May

10 End of Semester
17-18 Spring Commencement
26 Memorial Day

From the editor

We want to hear from you!
With each issue of *Entomology @ Purdue* we keep you up-to-date on what's happening in the Department of Entomology and with alumni. Won't you please take a moment to help keep us up-to-date with you?

Cheryl Spencer

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Please include your name, address, degree, major, and year of graduation. Photographs, if submitted, will be returned.

