



NUTRITIONAL SCIENCES NEWS

DIVISION OF NUTRITIONAL SCIENCES • UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Vol 20, Fall 2007

NOTE FROM THE DIRECTOR

It is a pleasure to share with you the accomplishments of the Division of Nutritional Sciences, its faculty, students and alumni in the past year. It is an exciting time to be at the University of Illinois! In the past year, six new faculty members joined the Division, which has helped to enrich the depth and breadth of expertise in nutrition and its affiliated disciplines within the division. We recruited 12 exceptional new students from 8 undergraduate institutions, who are mentored by 10 different faculty members. We also have undertaken the development of "Disciplinary Concentrations" within the division to highlight the research strengths of the faculty and to provide a means to facilitate faculty and student interactions and cross-training opportunities. This year we bid adieu to Don Layman and Keith Singletary, who retired in summer 2007. Don and Keith have been long-time members of the division and, together, trained over 17 M.S. and 17 Ph.D. students and contributed to many of the core nutrition courses. They will be missed.



The campus Strategic Plan emphasizes building capacity for translational research in health and wellness and the need to undertake interdisciplinary research and undergraduate and graduate training. The Division and the faculty in its affiliated departments are well positioned to take advantage of these emerging opportunities. The Division's Strategic Plan aims to assist its faculty and students to capitalize upon these new funding and research initiatives.

While the opportunities to come together on campus have never been greater, the University continues to be faced with budgetary constraints. To help counter decreased state funding for higher education, the University has launched an ambitious capital campaign known as Brilliant Futures <http://www.brilliantfutures.uiuc.edu>. The ultimate goal of the campaign is to raise \$2.25 billion by 2011, which is one of the most ambitious fundraising campaigns of any public or private university in the U.S.

In 2008, the Division will be launching a fundraising campaign. We were fortunate to receive the very generous \$1M endowment from Kraft Foods in 2001; however, due to a decreased state budget, continued corporate support has become more important. In addition, alumni contributions to the Division have become more critical to sustain our program excellence. I hope that you will consider participating in this campaign. Brilliant Futures can only be made possible with gifts from alumni, friends, corporations and endowments. Because the colleges, which the Division depends on for its support have been significantly impacted by the reduced state budget, it is vital for the program to receive funding from other sources. The internal operating budget for the Division is \$16,000/year less today than it was in 1999. In addition, federal funding for NIH fellowships is being cut, making it more difficult to raise funds externally.

You can make a difference. Your contribution will make it possible for future generations of Nutritional Sciences students to pursue graduate training and professional development opportunities. Please see page 5 for descriptions of the current endowments within the Division. If you or your employer is interested in making a gift, please feel free to contact me sdonovan@uiuc.edu or Kim Meenen kmeen@uiuc.edu in the ACES Advancement office.

In closing, I would like to thank Linda Barenthin and Armgard Haken for preparing the Newsletter, and for everything they do all year long, and everyone who provided information and pictures. Please do not hesitate to contact me at any time with comments or suggestions (sdonovan@uiuc.edu or 217-333-2289).

Sharon M. Donovan, Ph.D., R.D.

Note from the Director

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VISIT OUR WEB SITE FOR
E-MAIL ADDRESSES OF CURRENT
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<http://www.nutrsci.uiuc.edu>

If you have any comments or
suggested improvements for the
web site, contact us anytime at
nutrsci@uiuc.edu

EXPERIMENTAL BIOLOGY RECEPTION

Each year the Division hosts a reception at the Experimental Biology Meeting. It is a wonderful opportunity for our alumni to network with each other, the faculty and current graduate students in the program.

If you will be attending the EB 2008 meeting in San Diego, CA please plan to join us at our reception on

**Monday, April 7, 2008
from 7 - 9 PM
at the Marriott Hotel
& Marina
(ASN Headquarters)**

Harold Hugh Draper passed away on July 20, 2007 at the age of 83 in Melbourne, Florida. Harold was born in April 1924 in Lenore, Manitoba, Canada. He married Kathleen Trout on December 22, 1947 in Edmonton, Alberta, Canada.



Harold received a B.S.A. from the University of Manitoba, Winnipeg, Manitoba, Canada in 1945, a M.S. from the University of Alberta, Edmonton, Alberta, Canada in 1948 and a Ph.D. from the University of Illinois in 1952. He was a University of Illinois faculty member for 21 years, retiring in 1975. He was a Professor of nutritional chemistry in the Department of Animal Sciences (1954-1974) and a founder and the first Chair of the Division of Nutritional Sciences beginning in 1968. He then became Professor and Chairman of the Department of Nutritional Sciences at the University of Guelph, Ontario, Canada from 1975-1986. He was a Fellow in the American Association for the Advancement of Science (1964), President of the Canadian Nutrition Society (1982), Fellow in the American Institute of Nutrition (1996) and Founder and Chairman of the Department of Nutrition and Food Science, Kumi College, South Korea (1997). He was the Editor for *Advances in Nutritional Research* (Plenum, New York) Volumes 1-10 and had approximately 200 publications in refereed scientific journals.

Contributions to student scholarships, the preservation of nature or organizations that advance global quality of life would be fitting memorial tributes.



Frank W. Kari passed away on March 13, 2007 at the age of 55 in Chapel Hill, North Carolina. Frank was born in Evanston, Illinois, a son of Albert and Jeannette Kari. He received his Ph.D. from the Division of Nutritional Sciences, University of Illinois in 1981. Frank previously completed his B.S. at the university in 1974, followed by employment as a chemist for the Illinois Environmental Protection Agency, prior to pursuing his graduate training in 1977. Frank conducted his thesis work under the mentorship of Dr. Willard J. Visek, currently professor emeritus. Frank established a research program focusing upon the role of diet and nutrition in modulating the host response to environmental toxins and carcinogens, a theme that would resonate throughout his research career.

Following his training at Illinois, Frank pursued postdoctoral studies at the University of North Carolina at Chapel Hill as a recipient of a National Cancer Institute Fellowship in the laboratory of Dr. Ron Thurmond. In 1985, Frank was recruited to the National Institute of Environmental Health Sciences (NIEHS) as a Research Toxicologist in the National Toxicology Program. He later also became Adjunct Assistant Professor, Department of Nutrition, University of North Carolina at Chapel Hill. Throughout his career, Frank contributed over 60 peer-reviewed journal publications, reviews, book chapters and National Toxicology Program Technical Reports. Frank enthusiastically reviewed scientific manuscripts for leading journals and gave numerous invited lectures and seminars. For his accomplishments, Frank received recognition and a number of awards from the United States Public Health Service, NIH and NIEHS.

In fall 2005, Frank was stricken with a rare variant of multiple myeloma known as plasma cell leukemia. As a cancer patient, Frank continued his commitment to research by volunteering at every opportunity to participate in available clinical research trials. Following a courageous effort with multiple courses of chemotherapy and a stem-cell transplant, Frank succumbed to his disease in March 2007.

Frank is remembered by his colleagues and collaborators as a gifted investigator with a unique ability to dissect and interpret scientific data. As a mentor, Frank impacted many in training, serving as an extraordinary role model, maintaining a youthful and inquisitive approach to research, while always embracing new concepts or technology. Frank's life also was enriched by numerous and diverse interests, ranging from traditional and bluegrass music, stained glass artistry and woodworking. Most notably, Frank's lasting legacy is the devotion to his family and the treasured friendship he provided to so many, which profoundly defined the character of the man.

Contributions can be made to the Frank W. Kari Memorial Award Fund described on page 5.

Kraft Foods Human Nutrition Undergraduate Scholars



In 2002, Kraft Foods established a \$1M endowment in the Division of Nutritional Sciences, which provides funding for undergraduate scholars in the Department of Food Science and Human Nutrition, graduate fellows in the Division, unrestricted support for the Division and a Kraft Endowed Professorship.

The Division is extremely thankful to Kraft for their generous support of our academic programs and looks forward to our continuing interactions.

Kraft Undergraduate Scholars

The Department of Food Science and Human Nutrition selected the following undergraduate students to receive a \$2,000 Kraft Scholarship for the 2007-08 academic year.

Rudy Darmawan is a Senior in Food Science
Julie Richards is a Junior in Food Science
Michelle Wrhel is a Junior in Food Science

Kraft Foods Human Nutrition Graduate Fellows



Daina Mallard, originally from Evanston, IL, completed her bachelor's degree in Kinesiology with an emphasis in Athletic Training from the University of Illinois at Urbana-Champaign in 2005. She entered the Nutritional Sciences graduate program in August 2006 under the

mentorship of Dr. Ellen Evans. Her current research aims to further illuminate the interactions of gender, ethnicity, physical activity, dietary intake and body composition.



Fatima Zapata grew up in McAllen, TX. She completed her bachelor's degree in Chemistry at the University of Texas-Pan American in 2006. Fatima entered the Nutritional Sciences graduate program in June 2006 and is under the supervision of Dr. Elvira de Mejia. The focus of her research is

to examine the effect of caffeine from mate tea (matein) on adipogenesis in comparison to extracted caffeine from coffee and synthetic caffeine, *in vitro* and *in vivo*. Dr. de Mejia and Fatima collaborated with Dr. Fred Eller from the USDA in Peoria, IL to extract caffeine from mate tea (matein) and decaffeinate the mate tea. They currently are analyzing the results of the *in vivo* study and soon will start looking for biomarkers of adipogenesis in tissues and plasma of animals exposed to different treatments. Dr. Manabu Nakamura is co-advisor in this study.



The Division of Nutritional Sciences launched its Endowment Initiative in 2001 and we are very thankful to the faculty, students, alumni and friends who have supported the Division through contributions to the Endowment Fund and the Annual Fund. Your contributions are greatly appreciated and provide critical support for our students and programs. The Division of Nutritional Sciences would like to ask that you consider taking this opportunity to help secure our Brilliant Future by making a new contribution or an additional contribution to your alma mater.

Below are descriptions of the existing endowment funds in the Division. Two new endowments were established in 2007. We are extremely grateful to the family of Dr. Frank Kari for establishing a memorial award in his name and for Willard and Priscilla Visek for endowing the Dr. Willard J. and Priscilla F. Visek Lectureship. These endowments join the existing endowed graduate student awards established by Drs. Baker, Nishida and Robinson.

Nutritional Sciences Endowment Fund - is a general fund that is used to sustain and enhance the excellence of the Division of Nutritional Sciences by providing graduate students with enhanced research and professional development experiences.

(*New) Frank W. Kari Endowed Memorial Award Fund in Nutritional Sciences - will provide awards to graduate students who are enrolled in the Division of Nutritional Sciences in the College of ACES at the University of Illinois at Urbana-Champaign. The awards will be used by recipients to attend scientific conferences, including the annual Experimental Biology Meeting.

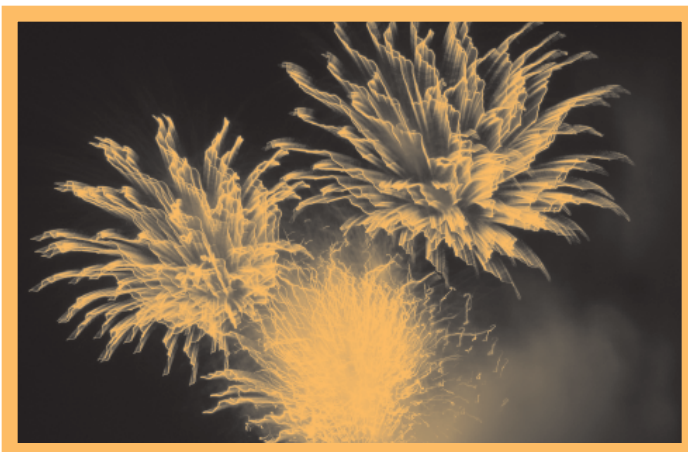
(*New) Dr. Willard J. and Priscilla F. Visek Lecture Fund - will be used to support collaborative scholarly activities in the science of nutrition at UIUC by providing funding for a lectureship, including, but not limited to, honorarium, travel, accommodations, publicity and receptions associated with the lecture. The lecture topic should emphasize the molecular basis of normal and abnormal nutrition-related processes in human beings and should take place on an annual basis.

David H. Baker Nutrition Scholar Award Fund - recognizes students who display excellence in research as documented through peer-reviewed publications, awards and research grants. During the selection of the award recipient, an emphasis will be placed on the originality and creativity of the student's research.

Toshiro Nishida Research Award Fund - provides support for travel to national and international scientific conferences. Criteria used to select the awardee include the originality and quality of the student's abstract and poster or oral presentation.

James L. Robinson Nutrition Impact Award Fund - recognizes students who display excellence in professional service to the University, the Division, the Nutritional Sciences Graduate Student Association or to a professional society.

Annual Fund - although not an endowment (the funds, rather than the interest generated, are used directly), this fund provides unrestricted support for Nutritional Sciences.



How to make a Contribution

It is easy to make a contribution on-line. On our web site under the "Endowment Fund" tab, you will find a link, "How to Make a Contribution" (http://www.nutrsci.uiuc.edu/endowment_fund/contributions.html), that will allow you to use a credit card.

Alternatively, you can send a check to the Division office. Please make the check payable to the "University of Illinois Foundation" and indicate your account preference on the check subject line or in a letter accompanying the check.

If you work in industry, please inquire whether your company participates in a matching program. Your donation is tax deductible.

2007 Baker, Nishida and Robinson Endowed Awards

On January 17, 2007, the recipients of the Baker, Nishida and Robinson Graduate Student Awards were announced. The **David H. Baker Nutrition Scholar Award** is given annually to the most outstanding graduate student majoring in Nutritional Sciences at UIUC; the **Toshiro Nishida Research Award** is given annually to a Nutritional Sciences student at UIUC to help foster professional development by supporting travel to scientific conferences; and the **James L. Robinson Nutrition Impact Award** is given annually to the graduate student who has made the greatest extracurricular impact on the Division of Nutritional Sciences.

A cash award of \$500 is provided to the Baker and Robinson award recipients. For the Nishida award, a \$500 prize is awarded as partial reimbursement for expenses incurred for registration and/or travel to a meeting. Each recipient's name is added to a plaque permanently displayed outside the Division office.

These awards are supported by permanent endowments established in the UI Foundation by Drs. Baker, Nishida and Robinson and their former students and friends.



David H. Baker Nutrition Scholar Award

David Baker,
Brian Lindshield and
John Erdman, Jr. (advisor)



Toshiro Nishida Research Award

Ellen Evans (advisor),
Mina Mojtahedi and
Toshiro Nishida



James L. Robinson Nutrition Impact Award

J. Lee Beverly (advisor),
Dolores Doane
and James Robinson

The External Advisory Committee (EAC) is comprised of leaders in industry and academia. This committee assists the Division in our quest to continually improve the quality of our program. The 2007-2008 committee members are shown below. This year we welcomed Mitchell Abrahamsen and Keith Garleb to the Committee. We would like to acknowledge the contributions of Eric Gugger, Luis Mejia, Susan Potter and Roger Sunde who completed their terms on the Committee this year. Thank you!

Dr. Mitchell S. Abrahamsen, Current Term 2007-2010.

Vice President, Research, Hills Pet Nutrition, Topeka, KS.

Dr. Richard M. Black, Current Term 2005-2008.

Vice President, Global Nutrition/Chief Nutrition Officer, Kraft Foods Global, Inc., Glenview, IL.

Dr. Robert A. Burns, Current Term 2003-2009.

Global Director of Nutrition, Cadbury Schweppes Science & Tech. Ctr., Whippany, NJ.

Dr. Keith A. Garleb, Current Term 2007-2010.

Director, Adult Nutrition R&D, Abbott Nutrition, Abbott Laboratories, Columbus, OH.

Dr. Eric T. Gugger, Current Term 2005-2008.

Technology Manager, Nutrition Science, General Mills, Minneapolis, MN.

Dr. Brian T. Larson, Current Term 2006-2009.

Senior Research Scientist, Nutrition Science, Kellogg's, Battle Creek, MI.

Dr. Gilbert A. Leveille, *Ad Hoc*

Senior Consultant, Scientific & Regulatory Affairs, Cargill, Inc.

Executive Director, Wrigley Science Institute, Denville, NJ.

Dr. Luis A. Mejia, Current Term 2002-2008.

Director, Regulatory and Scientific Affairs, Archer Daniels Midland Company, Decatur, IL.

Dr. Gregory D. Miller, Current Term 2006-2009.

Executive Vice President for Science and Innovation, National Dairy Council, Rosemont, IL.

Dr. Greg L. Paul, Current Term 2005-2008.

Global Director, Nutrition Strategy, The Solae Company, St. Louis, MO.

Dr. Susan M. Potter, Current Term 2002-2008.

Vice President, Health and Nutrition Sciences, Tate and Lyle, Decatur, IL.

Dr. Roger A. Sunde, Current Term 2005-2008.

Professor and Chair, Dept. of Nutritional Sciences, University of Wisconsin, Madison, WI.

Dr. Hugh N. Tucker, Current Term 2006-2009.

Vice President, Global Regulatory and Scientific Affairs, Bristol-Myers Squibb, Mead Johnson & Co., Evansville, IN.



Attendees of Sept. 2007 meeting:

Back row: Robert Burns, Gregory Miller, Roger Sunde, Nathan Matusheski (representative for Richard Black), Luis Mejia, Brian Larson

Front row: Hugh Tucker, Susan Potter, Keith Garleb

EXTERNAL ADVISORY COMMITTEE RECEPTION

A reception for EAC members, faculty, students and administrators was held at Dr. Donovan's home on September 19, 2007.



Timothy Garrow and Robert Burns



Dolores Doane, Susan Potter, Lee Beverly and Denise Walker



Jonathan Mun and Chris Moulton



Mina Mojtahedi and Rose Ann Mathai



Brooke Schantz, Gregory Miller, Chad Stroud and Emily Radlowski



Elvira de Mejia, Michael Miller and Katherine Galvin



Sonja Volker, Brian Larson, Nikki Ford, Barbara Yudell and Jennifer Lee



Hannah Holscher and Erica Nehrling



Katherine Kerr, Trevor Faber, Ryan Grant and Ann Liu



Robert Easter and Art Siedler



Luis Mejia and Nathan Matusheski



Byung (Simon) Cho and Hugh Tucker



Brian Lindshield and Roger Sunde



Peter Garlick and Elizabeth Jeffery



Marcela Araya Roldan, Keith Garleb, Min Jung Park and Ren-Hau Lai



Trevor Faber, Hannah Holscher and Morgan Moon



Nancy Engelmann, Nikki Ford, Katherine Kerr and Erica Nehrling



Marcela Araya Roldan and Desiree Lavin



Timothy Garrow and David Baker

The faculty and students thank the External Advisory Committee members for their valuable contributions to our program.

Spring 2007

Radhika Ganu, Ph.D. candidate, B.S. 2004 in Microbiology, minor in Biotechnology, Ramnarain Ruia College, Matunga, Mumbai, India; M.S. 2006 in Health Science, University of Pune, India. **Advised by Lawrence B. Schook, Department of Animal Sciences.**

Summer 2007

Trevor Faber, M.S. candidate, B.S. 2007 in Animal Sciences, minor in Chemistry, UIUC. **Advised by George C. Fahey, Jr., Department of Animal Sciences.**

Hannah Holscher, M.S. candidate, B.S. 2006 in Dietetics, FSHN, UIUC. **Advised by Kelly A. Tappenden, Department of Food Science and Human Nutrition.**

Katherine Kerr, M.S. candidate, B.S. 2006 in Zoology and Biological Sciences, Colorado State University, Fort Collins, CO. **Advised by Kelly S. Swanson, Department of Animal Sciences.**

Jennifer Lee, M.S. candidate, B.S. 2006 in Integrative Biology, minor in Chemistry, UIUC. **Advised by Mark S. Kuhlenschmidt, Department of Pathobiology.**

Morgan Moon, Ph.D. candidate, B.S. 2005 in Biology, Northeastern Illinois University, Chicago. **Advised by Keith Kelley, Department of Animal Sciences, and Robert Dantzer, Department of Pathology.**

Erica Nehrling, M.S. candidate, B.S. 2005 in Dietetics, University of Georgia, Athens. **Advised by Kelly A. Tappenden, Department of Food Science and Human Nutrition.**

Krystle Zuniga, Ph.D. candidate, B.S. 2007 in Dietetics, minor in Chemistry and Biology, Bowling Green State University, OH. **Advised by John W. Erdman, Jr., Department of Food Science and Human Nutrition.**

Fall 2007

Desiree Lavin, M.S. candidate, B.S. 2005 in Dietetics, Bradley University, IL. **Advised by Gregory G. Freund, Department of Pathology.**

Heather Mangian, Ph.D. candidate, B.S. 1977 in Biology, Monmouth College, IL; M.S. 1979 in Animal Sciences, UIUC. **Advised by Kelly A. Tappenden, Department of Food Science and Human Nutrition.**

Emily Radlowski, M.S. candidate, B.S. 2007 in Dietetics, FSHN, minor in Chemistry, UIUC. **Advised by Sharon M. Donovan, Department of Food Science and Human Nutrition.**

Gabriel Wilson, Ph.D. candidate, B.S. 2006 in Kinesiology, minor in Exercise Nutrition & Wellness; M.S. 2007 in Kinesiology, minor in Exercise Physiology and Sport, California State University, Hayward. **Advised by Peter J. Garlick, Department of Animal Sciences.**



Back row: Desiree Lavin, Gabriel Wilson, Jennifer Lee, Trevor Faber, Krystle Zuniga, Heather Mangian

Front row: Morgan Moon, Katherine Kerr, Erica Nehrling, Hannah Holscher, Emily Radlowski
(not pictured: Radhika Ganu)

August 2006

Amanda (Bergschneider) Newell, M.S. Current Position: Dietetic Intern, Order of St. Francis Medical Center, Peoria, IL. *Advised by Elvira de Mejia, Department of Food Science and Human Nutrition.*

Katrina Sprengelmeyer, M.S. Current Position: Dietetic Intern, Edward Hines, Jr. VA Hospital, Hines, IL. *Advised by Karen M. Chapman-Novakofski, Department of Food Science and Human Nutrition.*

October 2006

Jessica Campbell, Ph.D. Current Position: Nutrition Scientist R & D II, General Mills, Inc., Bell Institute of Health and Nutrition JFB, Golden Valley, MN. *Advised by: John W. Erdman, Jr., Department of Food Science and Human Nutrition.*

Susan Evans, M.S. Current Position: Visiting Research Dietitian, Dept. of Food Science and Human Nutrition, University of Illinois, Urbana. *Advised by Timothy A. Garrow, Department of Food Science and Human Nutrition.*

Jessica Hartke, Ph.D. Current Position: Homemaker. *Advised by Sharon M. Donovan, Department of Food Science and Human Nutrition.*

Segametsi Maruapula, Ph.D. Current Position: Lecturer, Dept. of Home Economics Education, University of Botswana, Gaborone, Botswana. *Advised by Karen M. Chapman-Novakofski, Department of Food Science and Human Nutrition.*

December 2006

Keng-I Lin, M.S. *Advised by Gregory G. Freund, Department of Pathology.*

May 2007

Kirstie Canene-Adams, Ph.D. Current Position: Postdoctoral Research Fellow, Dept. of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD. *Advised by John W. Erdman, Jr., Department of Food Science and Human Nutrition.*

Kristin Harris, Ph.D. Current Position: Scientist II, General Mills, Inc., Bell Institute of Health and Nutrition, Minneapolis, MN. *Advised by Elizabeth H. Jeffery, Department of Food Science and Human Nutrition.*

Noriko Nakamura, M.S. Current Position: Doctoral candidate, Dept. of Animal Sciences, University of Illinois, Urbana. *Advised by H. Rex Gaskins, Department of Animal Sciences.*

Nelson Adam Reppert, M.S. Current Position: Family Health Nutritionist, WIC, Champaign-Urbana Public Health District, Champaign, IL. *Advised by Mary Ann Lila, Department of Natural Resources and Environmental Sciences.*



Elvira de Mejia (advisor) and
Amanda (Bergschneider) Newell



Jessica Hartke and
Sharon Donovan (advisor)



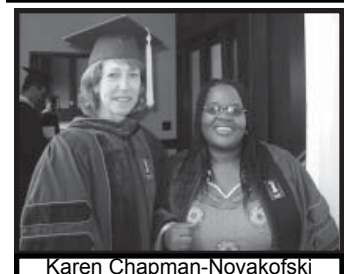
John Erdman, Jr. (advisor) and
Jessica Campbell



N. Adam Reppert and
Mary Ann Lila (advisor)



John Erdman, Jr. (advisor) and
Kirstie Canene-Adams



Karen Chapman-Novakofski
(advisor) and Segametsi
Maruapula

2007 Officers

Chair.....Barbara Yudell	Co-Chair.....Rose Ann Mathai
Treasurer.....Nancy Engelmann	Co-Treasurer.....Nikki Ford
Secretary.....Ann Liu	Webmaster.....Jonathan Mun
Executive Committee Representative..Ryan Grant	Photographer.....Katherine Kerr

2006-2007 MARGIN OF EXCELLENCE PROGRAM

Travel Funds

The objective of the travel funds program is to encourage students to present their research at national and international professional meetings by helping to defray the costs of travel to these meetings. Students are provided with \$300-\$400.

Fall 2006

Marcela Araya Roldan
 Kirstie Canene-Adams
 Suzanne Devkota
 Dolores Doane
 Nancy Engelmann
 Nikki Ford
 Kristin Reifsteck
 N. Adam Reppert
 Denise Walker

Spring 2007

Pascasie Adedze
 Aline Andres
 Meredith Barnes
 Mengyuan Du
 Ryan Grant
 Tristan Kraft
 Ren-Hau Lai
 Ann Liu
 Daina Mallard
 Mina Mojtahedi
 Gerardo Nava-Morales
 Min Jung Park
 Tory Parker
 Tara Rogers
 Chad Stroud
 Matthew Thorpe
 Emily Tomayko
 Victoria Vieira
 Laura Wardwell

2007 Research Funds

Research funds help support research conducted by the students and provides valuable experience preparing research proposals. The primary selection criterion is the quality of the proposed research and students are provided \$250-\$1,000.

Pascasie Adedze
 Aline Andres
 Dolores Doane
 Nancy Engelmann
 Nikki Ford
 Hyun-Young Koo
 Tristan Kraft

Rose Ann Mathai
 Brooke Schantz
 Christina Sherry
 Chad Stroud
 Emily Tomayko
 Barbara Yudell

2006-2007 FELLOWSHIP RECIPIENTS

NIH Fellowship**Predocctoral**

Jennifer Croix
Christopher Guest
Rose Ann Mathai
Victoria Vieira

Postdoctoral

Jessica Buchanan
Jason O'Connor

**USDA National Needs
Predocctoral Fellowship**

Layne Norton
Matthew Thorpe

Fulbright Scholarship

Mina Mojtahedi

**CONACYT Scholarship
(Mexican Government)**

Marcela Cortes Ramirez
Gerardo Nava-Morales

**JBT Fellowship
(College of ACES)**

Nancy Engelmann
Ann Liu
Tory Parker
Emily Tomayko

University Fellowship

Meredith Barnes
Andrea Cachia

**Graduate College
Fellowship**

Ryan Grant
Sofia Torres
Fatima Zapata

Gamma Sigma Delta Graduate Fellows Recognition

Gamma Sigma Delta (GSD) is an agricultural honor society, which seeks to encourage high standards of scholarship and worthy achievements in all branches of the agricultural and related sciences as well as a high degree of excellence in the practice of agricultural pursuits. The College of Agricultural, Consumer and Environmental Sciences and GSD hold the recognition program in the fall of each year.

Back Row: Sharon Donovan, Fatima Zapata, Sofia Torres, Emily Tomayko, Marvin Paulsen (President, Gamma Sigma Delta), Ann Liu, Wayne Banwart (Interim Associate Dean, College of ACES), Nancy Engelmann,

Front Row: Matthew Thorpe, Ryan Grant, Marcela Cortes Ramirez, Jennifer Croix, Victoria Vieira

Pascasie Adedze received a Student Research Award for her abstract from the Society for Nutrition Education in July 2007.

Meredith Barnes received a 2007 Hazel I. Craig College of Medicine Summer Research Fellowship and a 2007-2008 Avery Brundage Scholarship for outstanding Student-Athletes. She also was listed on the Incomplete List of Teachers Ranked as Excellent for fall 06 and spring 07 for teaching Medical Microbiology & Immunology. Meredith was selected as a Mars Fellow to attend the 57th Meeting of Nobel Laureates and Students in Lindau, Germany where she had the opportunity to meet winners of the Nobel Prize in Medicine and graduate students from around the world. She gave a talk at the 67th Annual Scientific Sessions of the American Diabetes Association in Chicago in June, entitled "Glycogen in the VMH influences local glucose and lactate concentrations during hypoglycemia in rats and may contribute to HAAF". She had the following editorial focus published: **Barnes MB**, Beverly JL. Nitric oxide's role in glucose homeostasis. *Am J Physiol Regul Integr Comp Physiol* 2007; 293:R590-1.



The 2006 Softball League Champs included Marcela Araya Roldan, Brian Lindshield, Dolores Doane and Nikki Ford

Dolores Doane received the following awards: American Physiological Society/NIDDK Travel Award for EB 2007; selection by the American Physiological Society to travel and participate in the APS Short Course: "Making Scientific Presentations: Critical First Skills", Mar 2007; and inclusion on the Incomplete List of Teachers Ranked as Excellent in fall 2006 for being a Teaching Assistant for ANSC 362 (Principles of Animal Physiology). She received a Graduate Teaching Certification from UIUC in April. She is an Executive Committee Member of the Student Interest Group (SIG), American Society for Nutrition and will hold the elected position of ASN SIG Chair for 2007-2008; a student member, ASN, 2004-present; and a student member, American Physiological Society, 2005-present. Dolores and **Emily Tomayko** put together a NSGSA Skills Workshop, which was held in April 2007. Dolores is engaged to DNS Medical Scholars Student, **Christopher Guest**. Dolores had the following two publications: Thorpe AJ, **Doane DF**, Beverly JL, Kotz CM. Orexin A in the rostralateral hypothalamic area induces feeding by modulating GABAergic transmission. *Brain Research* 2006; 1125:60-6; and **Doane DF**, Lawson MA, Meade JR, Kotz CM,

Beverly JL. Orexin-induced feeding requires NMDA receptor activation in the perifornical region of the lateral hypothalamus. *Am J Physiol Regul Integr Comp Physiol* 2007; 293:R1022-6.

Nancy Engelmann won first place in the poster session for the Bioactive Food Components RIS (Research Interest Section) and 1st place in the CARIG (Carotenoid Research Interest Group) poster competition at Experimental Biology 2007 from the American Society for Nutrition.

Nikki Ford won 1st place in the Bioactive Food Components RIS poster competition at Experimental Biology 2007 from the American Society for Nutrition.

Tristan Kraft received a Thomas Buetow Memorial Fund and Carle Development Foundation Travel Award. He also passed his Preliminary Exam in January 2007. He presented a poster at Experimental Biology 2007.

Brian Lindshield was a finalist in the Procter & Gamble Graduate Student Abstract Competition, American Society for Nutrition. He also received a travel grant to attend the "Vitamin D and Health in the 21st Century: An Update" conference sponsored by NIH in Bethesda, MD in September. He had the following three publications: **Lindshield BL**, Erdman JW, Jr. Carotenoids. In: Bowman BA, Russell RM (Eds). Present Knowledge in Nutrition, 9th edition. Washington, D.C.: International Life Sciences Institute. 2006. pp 184-97; **Lindshield BL**, Canene-Adams K, Erdman JW, Jr. Lycopene: are lycopene metabolites bioactive? *Arch Biochem Biophys* 2007; 458:136-40; and Canene-Adams K, **Lindshield BL**, Wang S, Jeffery EH, Clinton SK, Erdman JW, Jr. Combinations of tomato and broccoli enhance the anti-tumor activity in Dunning R3327-H prostate adenocarcinomas. *Cancer Res* 2007; 67:836-43.

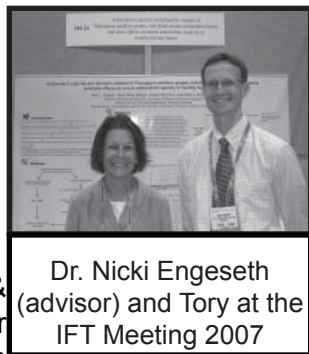
Mina Mojtahedi received the Ethel Louise Armstrong (ELA) Foundation Lucille Fortier Owen Scholarship and a MIDWEST Alliance in Science, Technology, Engineering and Mathematics Grant. She presented "Intermuscular thigh fat mass and insulin sensitivity in athletes with spinal cord injury" (oral) at the International Spinal Cord Society Annual Meeting 2007 in Iceland and "Environmental barriers to healthy foods for an urban population with mobility impairments" (poster) at the American Diabetes Association Annual Meeting 2007. (Continued on next page).



Mina in Iceland

Mina had the following three publications: Heffernan KS, Jae SY, Lee M, **Mojtahedi MC**, Evans EM, Zhu W, Fernhall B. Gender differences in QTc interval in young, trained individuals with lower spinal cord injury. *Spinal Cord* 2007; 45:518-21; Valentine RJ, Misic MM, Kessinger RB, **Mojtahedi MC**, Evans EM. Location of body fat and body size impacts DXA soft tissue measures: a simulation study. *European J Clin Nutr* 2007 Apr 25; [Epub ahead of print]; and **Mojtahedi MC**, Valentine RJ, Arngrimsson SA, Wilund KR, Evans EM. The association between regional body composition and metabolic outcomes in athletes with spinal cord injury. *Spinal Cord* 2007 May 15; [Epub ahead of print].

Tory Parker received the 2007 North American Colleges and Teachers of Agriculture (NACTA) Graduate Student Teaching Award. He was an instructor for FSHN 120 (Contemporary Nutrition) in summer 2007 and an invited participant in a ten-week teaching college course. Tory was cited on the Incomplete List of Teachers Ranked as Excellent for being a Discussion Leader in FSHN 220 (Principles of Nutrition) with an outstanding instructor rating. He gave an invited talk at the Student Professional Development Oral Session - Institute of Food Technologists (IFT) and a poster presentation at the IFT Nutraceutical & Functional Foods Poster Session in 2007. He is a



Dr. Nicki Engeseth (advisor) and Tory at the IFT Meeting 2007

member of the Honor Society of Phi Kappa Phi, Gamma Sigma Delta Honor Society of Agriculture and the Golden Key National Honor Society, as well as a member of the American Society for Nutrition and the Institute of Food Technologists. His second son, Samuel Garrett, was born May 18th, 2007. Congratulations! Tory had the following two publications: **Parker TL**, Eggett DL, Christensen MJ. Estrogen receptor activation and estrogen-regulated gene expression are unaffected by methylseleninic acid in LNCaP prostate cancer cells. *J Nutr Biochem* 2007; 18:746-52 and **Parker TL**, Wang X-H, Pazmiño J, Engeseth NJ. Antioxidant capacity and phenolic content of Thompson seedless grapes, sun-dried raisins, and golden raisins and their effect on *ex vivo* serum antioxidant capacity. *J Ag Food Chem* 2007; 55:8472-7.

Summer Porter received an Illinois AMVETS (American Veterans) fellowship for continuing diabetes education research.

Tara Rogers presented a poster at the Experimental Biology Meeting in Washington, D.C. in April, entitled "Nutrition and bone health in adolescent female athletes vs. non-athletes". She successfully defended her master's thesis in May and began the UIUC dietetic internship in August. During spring break, Tara and

labmate, **Laura Wardwell**, went on a mission trip to Vienna, Austria and Bratislava, Slovakia as part of Graduate InterVarsity. She completed the Quad Cities Marathon and the Orange County Half Marathon.

Christina Sherry received a Psychoneuroimmunology Research Society Travel Fellowship. She had a presentation at the 14th Annual Meeting of the Psychoneuroimmunology Research Society, Arcachon, France. Christina is on the DNS Strategic Planning Committee and was Chair of the Nutritional Sciences Graduate Student Association in 2006-2007. She had the following two publications: **Sherry CL**, O'Connor JC, Kramer JM, Freund GG. Augmented lipopolysaccharide-induced TNF-alpha production by peritoneal macrophages in type 2 diabetic mice is dependent on elevated glucose and requires p38 MAPK. *J Immunol* 2007; 178:663-70; and O'Connor JC, **Sherry CL**, Guest CB, Freund GG. Type 2 diabetes impairs insulin receptor substrate-2-mediated phosphatidylinositol 3-kinase activity in primary macrophages to induce a state of cytokine resistance to IL-4 in association with overexpression of suppressor of cytokine signaling-3. *J Immunol* 2007; 178:6886-93.

Matthew Thorpe received a travel grant to attend the "Vitamin D and Health in the 21st Century: An Update" conference sponsored by NIH in Bethesda, MD in September.

Emily Tomayko was cited on the Incomplete List of Teachers Ranked as Excellent for being a Discussion Leader in FSHN 220 (Principles of Nutrition) in spring 2007.

Victoria Vieira gave the following three poster presentations: "Exercise training is more effective than low-fat diet in lowering insulin resistance in high-fat fed mice" at Experimental Biology 2007 in Washington, D.C. in April; "Effect of low-fat diet and exercise on WAT inflammatory gene expression in Balb/c mice" at the UIUC Department of Kinesiology and Community Health Awards Banquet in April; and "Stress reduction through cardiovascular exercise associated with lower CRP in older adults" at the 14th Annual Meeting of the Psychoneuroimmunology Research Society, Arcachon, France, May-June 2007. Victoria currently is coaching for Team in Training®, an endurance sports training program run by the Leukemia and Lymphoma Society that raises money for cancer research and patient care. She also ran the Chicago Marathon in October. She had the following publication: **Vieira VJ**, Valentine RJ, McAuley E, Evans E, Woods JA. Independent relationship between heart rate recovery and CRP in older adults. *J Am Geriatr Soc* 2007; 55:747-51.

Denise Walker was cited on the Incomplete List of Teachers Ranked as Excellent for being a Teaching Assistant in FSHN 420 (Nutritional Aspects of Disease) in fall 2006 and a Discussion Leader in FSHN 220 (Principles of Nutrition) in spring 2007. She also received an American Dietetic Association Foundation 2007 ConAgra Foods Scholarship.

Barbara Yudell served as NSGSA Co-Chair 2006-2007 (now the Chair 2007-2008). During the past year she helped coordinate a few new events, such as ExplorACES and the Bake-Off. She was inducted into the Gamma Sigma Delta Honor Society of Agriculture and was elected Treasurer of the College Teaching Effectiveness Network (CTEN), a graduate student organization that plans campus-wide teaching workshops. She currently is a teaching assistant for FSHN 120 (Contemporary Nutrition), which she also taught in 2006-2007 and was a Discussion Leader for FSHN 220 (Principles of Nutrition) for which she was cited on the Incomplete List of Teachers Ranked as Excellent in spring 2007.

NUTRITIONAL SCIENCES FACULTY AWARD

On October 10, 2007 the Nutritional Sciences Graduate Student Association presented **Dr. Manabu Nakamura** with the 2007 Faculty Award. Faculty members are nominated by students based on the degree of involvement in student affairs and the Division. Dr. Nakamura would like to extend a sincere "thank you" to the Nutritional Sciences Graduate Student Association for being selected to receive the 2007 NSGSA Faculty Award. "This is the second time I was selected for the award. I felt as honored and encouraged as I did the first time I heard the kind remarks from the students. I truly appreciate the activities provided by the NSGSA in building a community among students and faculty. Keep up the good work! Thank you so much."

"For extraordinary contribution, support and encouragement of Nutritional Sciences Graduate Students"



Matthew Thorpe presenting
Dr. Manabu Nakamura with the
Faculty Award

PHOTO GALLERY FROM NUTRITION RECEPTION AT EB 2007



Sharon Donovan, George Fahey, Jr., David
Baker, Pam Anderson and John Milner



Kirstie Canene-Adams, Dave Adams, Brian
Lindshield, Jon and Jessica Campbell



Elizabeth Jeffery, Marcela Araya Roldan,
Jennifer King, Barbara Schmidt, Nancy
Engelmann and Emily Tomayko



Elvira de
Mejia,
Mary Ann
Lila and
Elizabeth
Jeffery



Karen
Plawecki
and Tara
Rogers



Michael
Keenan
and
Manabu
Nakamura



Victoria Vieira, Marcela Araya Roldan, Barbara Schmidt and Tristan Kraft



Naiman Khan, Ryan Grant and Ann Liu



Elizabeth Jeffery, Ellen Evans and Greg Paul



Eric Lien and Brent Flickinger



Doug and Anne Smith, George Fahey, Jr. and Michael Keenan



Jonathan Mun and Adam Reppert



Elizabeth Flickinger, Angela Gajda and Jamie Baum



John Erdman, Jr. and Ed Ulman

THANK YOU!

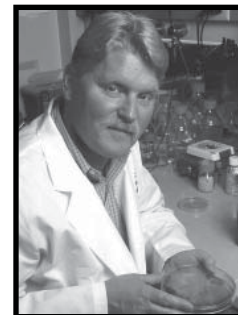
The faculty and students of the Division would like to recognize **Ed Ulman (Ph.D. 1980)**, the Department of Food Science and Human Nutrition and the Department of Animal Sciences, UIUC for their generous contributions in support of the Nutrition Mixer at EB 2007. Thank you!



Sharon Donovan, Tracy (Gautsch) Anthony and Greg Paul

About the Nutritional Sciences Symposium

Each year the NSGSA organizes a symposium that includes a keynote lecturer and student competition for both poster and oral presentations. The symposium provides a valuable opportunity for students to present their research to peers and faculty prior to presentations at national meetings. Presentations are judged by faculty and the symposium speaker and winners of the poster and oral competitions receive travel awards. This year's keynote speaker was **Dr. Christopher B. Newgard**, Ph.D., W. David and Sarah W. Stedman Distinguished Professor of Pharmacology and Cancer Biology, Professor of Internal Medicine, Duke University Medical Center, Durham, NC, who presented "Comprehensive Metabolic Analysis for Understanding of Diabetes and Obesity Mechanisms".



ORAL PRESENTATIONS

"The addition of prebiotics to a whey-based peptide liquid diet alleviates weaning-induced intestinal injury in piglets" **Kristin L. (Reifsteck) Faust**, at right (**Advisor: Kelly Tappenden**)



"Short term consumption of lycopene and phytofluene decreases PPAR α and PPAR γ expression in selected rat tissues" **Ann Liu**, at left (**Advisor: John Erdman, Jr.**)

"Separation techniques impact proanthocyanidin bioactivity and degree of polymerization" **Jessica Alwerdt**, at right (**Mary Ann Lila**)



"Mechanisms behind anti-tumor activity in dunning R3327-H prostate adenocarcinomas as a result of tomato & broccoli consumption" **Kirstie Canene-Adams**, at left (**Advisor: John Erdman, Jr.**)



"Enhanced insulin sensitivity in subjects on weight loss diets with increased protein" **Denise A. Walker**, at right (**Advisor: Donald Layman**)

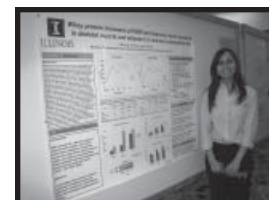


"Selenium, but not lycopene or vitamin E, decreases growth of transplantable Dunning R3327-H prostate tumors" **Brian L. Lindshield**, at left (**Advisor: John Erdman, Jr.**)

POSTER PRESENTATIONS

"Amelioration of acute pancreatitis with dietary crambene from crucifers" **Marcela Araya Roldán** (**Advisor: Elizabeth Jeffery**)

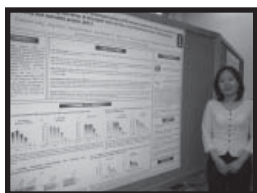
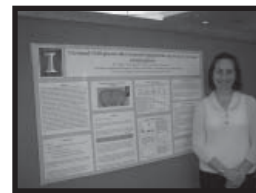
"Whey protein increases p70S6k signaling and improves insulin sensitivity in skeletal muscle and adipose in a reduced-carbohydrate diet" **Suzanne Devkota**, at right (**Advisor: Donald Layman**)



"Decreased VMH glucose after recurrent hypoglycemia may be due to increased norepinephrine"
Dolores Doane, at right (Advisor: **J. Lee Beverly**)

"Production of ¹⁴C tomato carotenoids from 'VFNT' cherry cell suspension cultures treated with herbicidal enzyme inhibitors" **Nancy Engelmann** (Advisor: **John Erdman, Jr.**)

"Investigation of apo-lycopenals in DU145 & LNCaP cells" **Nikki Ford** (Advisor: **John Erdman, Jr.**)



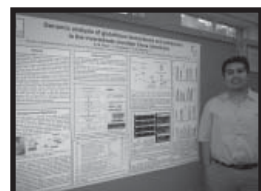
"The effect of dysregulated inflammation in IL-10 -/- mice on cardiorespiratory performance" **Ryan Grant** (Advisor: **Jeffrey Woods**)

"Dietary flavonoid, luteolin reduces lipopolysaccharide(LPS)-stimulated interleukin(IL)-6 production in mice by modulating activation of microglial cells via the c-Jun-N-terminal kinase (JNK) signaling pathway and activated protein(AP)-1" **Saebyeol Jang**, at left (Advisor: **Rodney Johnson**)

"Dietary magnesium intake, inflammation, and atherosclerotic plaque development in rabbits"
Jennifer King, at right (Co-advisors: **John Erdman, Jr.** and **William O'Brien, Jr.**)

"Similarity of bioactivity between purified and semipurified glucoraphanin" **Ren-Hau Lai** (Advisor: **Elizabeth Jeffery**)

"A technique to assess body composition and sarcopenia in larger individuals using DXA" **Daina Mallard** (Advisor: **Ellen Evans**)



"Genomic analysis of glutathione biosynthesis and metabolism in the invertebrate chordate *Ciona intestinalis*" **Gerardo Nava**, at left (Advisor: **H. Rex Gaskins**)

"Translational controls of muscle protein synthesis are delayed and prolonged associated with ingestion of a complete meal" **Layne Norton**, at right (Advisor: **Donald Layman**)

"Biosynthesis of ¹⁴C-radiolabeled isoflavones from *in vitro* kudzu (*Pueraria lobata*) root cultures and red clover (*Trifolium pratense*) suspension cultures" **N. Adam Reppert** (Advisor: **Mary Ann Lila**)



"Nutrition and bone health in adolescent female athletes vs. non-athletes" **Tara Rogers** (Advisor: **Karen Chapman-Novakofski**)

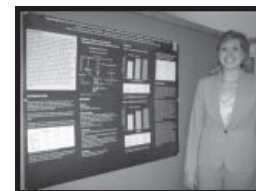


"Delta-6 desaturase knockout mouse illustrates previously undocumented pathology" **Chad Stroud** (Advisor: **Manabu Nakamura**)

"Circulating mineral regulatory proteins involved in both coronary artery calcification and bone mineral density in older human adults" **Emily Tomayko**, at left (Advisor: **Kenneth Wilund**)

"Exercise training is more effective than low-fat diet in lowering IR in high-fat fed mice" **Victoria Vieira** (Advisor: **Jeffrey Woods**)

"Hyperglycemia and hospital outcomes for diabetic patients admitted to general medicine and surgery services" **Laura Wardwell**, at right (Co-advisors: **Michael Jakoby, IV** and **Karen Chapman-Novakofski**)



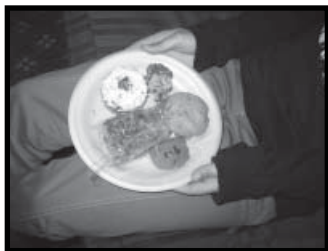
Congratulations to the following winners:

Posters: 1st Place: Saebyeol Jang, Layne Norton, Chad Stroud, Emily Tomayko
 2nd Place: Suzanne Devkota, Nancy Engelmann, Nikki Ford, Ren-Hau Lai

Oral: 1st Place: Brian Lindshield 2nd Place: Jessica Alwerdt and Kirstie Canene-Adams

Each of four judging teams selected 1st and 2nd place winners.

A new event, the NSGSA Bake-Off, was held on July 18, 2007. Students could compete in four dessert categories and attendees could purchase tasty treats.



Andrea Cachia, Christina Sherry, Brooke Schantz, Summer Porter, Ryan Grant, Chris Moulton, Brian Lindshield, Chad Stroud



Rita Strakovsky



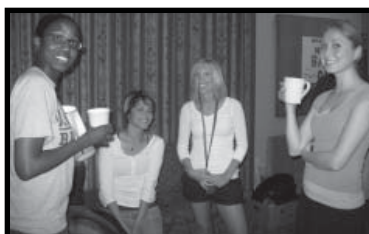
Yuan-Xiang Pan, Manabu Nakamura



Rose Ann Mathai, Barbara Yudell



Hong Chen, Alyssa Francl, Rita Strakovsky, Tim Buran



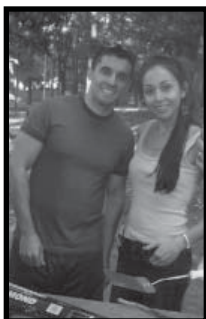
Daina Mallard, Krystle Zuniga, Brooke Schantz, Summer Porter



Nancy Engelmann, Adam Reppert

FALL PICNIC

Graduate students, faculty and their families enjoyed a picnic at Illini Grove on September 11, 2007, to welcome new graduate students to kick off a new academic year.



Dwight Steward, Barbara Yudell



Chad Stroud



Ryan Grant



Daina Mallard, Naiman Khan, Jonathan Mun, Nikki Ford



Morgan Moon, Ren-Hau Lai



Ian Wallace, Sharon Donovan, Ryan Grant



Brian Lindshield, Jim and Jan Robinson



Left: Nancy Engelmann, Nikki Ford, Jonathan Mun
Right: Christina Sherry, Emily Tomayko, Daina Mallard, Naiman Khan



WINNING TEAM

Team Nakamura

Christina Sherry, Katherine Kerr,
Dr. Manabu Nakamura, Christopher
Moulton and Ann Liu



Team Swanson

Brooke Schantz, Jonathan Mun,
Dr. Kelly Swanson, Emily
Tomayko and Nikki Ford



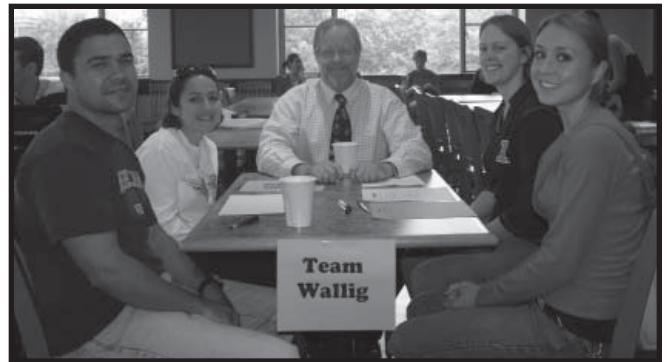
Team Parker

Leslie Sutton, Nancy Engelmann,
Tory Parker, Emily Radlowski
and Chad Stroud



Team Wallig

Ryan Grant, Victoria Vieira,
Dr. Matthew Wallig, Denise
Walker and Summer Porter



**Master of Ceremonies
and Quiz Bowl Judges**

Dr. John Erdman, Jr. (MC) and Judges Dr.
Sharon Donovan and Dr. Neal Merchen



*December 2006***Hong Chen, Ph.D.**

Assistant Professor
Department of Food Science and Human Nutrition
College of Agricultural, Consumer and Environmental Sciences (ACES)

Research Interests: *Nutrient regulation of epigenetic modifications in cancer and other chronic diseases.*

The focus of Dr. Chen's research is the role of epigenetic modifications on cancer and other chronic diseases. Epigenetic modifications of the genome, such as DNA methylation, histone methylation and acetylation, are powerful regulators of gene expression in mammalian cells. She is particularly interested in how epigenetic modifications are regulated by dietary components in colon tumor cells and how these modifications contribute to the tumorigenesis or cancer progression. Currently the focus of her lab is on dietary folate and active components in soy foods and how they contribute to epigenetic regulations in colon cancer.

**Robert Dantzer, D.V.M., Ph.D.**

Professor
Department of Pathology
College of Medicine
Director, Integrative Immunology and Behavior Program and Professor, Neuroscience Program
Professor, Department of Animal Sciences

Research Interests: *Behavioral and psychopathological consequences of the effects of inflammatory mediators on the brain.*

During the course of an inflammation the proinflammatory cytokines that are produced by peripheral innate immune cells have an impact on brain functions via neural and humoral communication pathways. The brain forms an image of the peripheral immune response using the same cells and molecules as those mobilized at the periphery to fight infection. Brain cytokines induce sickness behavior, a well-coordinated response of the host to help fighting infection, and this response normally is reversible. When the brain cytokine system no longer is regulated, such as during chronic inflammation or in the presence of vulnerability factors, this response eventually culminates in psychiatric disorders such as depression. At the experimental level, Dr. Dantzer explores the mechanisms that are responsible for the transition from sickness to depression. At the clinical level, he intends to explore the possibility that the subjective health complaints of patients suffering from chronic diseases (e.g., fatigue, depressed mood) are associated with inflammation and can be attenuated by interventions that attenuate inflammation (e.g., physical exercise).

**Yuan-Xiang Pan, Ph.D.**

Assistant Professor of Nutrition
Department of Food Science and Human Nutrition
College of Agricultural, Consumer and Environmental Sciences (ACES)

Research Interests: *Nutrient-gene interaction and cancer; development programming of chronic diseases.*

Dr. Pan's research is focused on evaluating the impact of nutrients on the gene expression profiling and transcriptional and translational processes involved in development and growth. He investigates the function and regulation of transcription factors in the nutrient-sensing pathways. He also is interested in revealing nutritional impact on maternal and fetal gene expression and protein profiles and determine if, and how, an early nutritional event may have long-term effects on quality of growth, metabolic functions and development.



May 2007

Charles H. Hillman, Ph.D.

Associate Professor

Department of Kinesiology and Community Health

College of Applied Health Sciences (AHS), UIUC

Associate Professor, Neuroscience Program and Departments of Psychology and Internal Medicine

Research Interests: *Physical activity effects on brain and cognition.*

Dr. Hillman's research examines neuroelectric and behavioral indices of physical activity and cognitive control. He is interested in determining how physical activity/exercise relates to component cognitive processes involved in attention, working memory and processing speed. Because of his belief in early intervention, he predominantly focuses on preadolescent children with the goal of increasing cognitive health and effective functioning across the human lifespan. Although he has not yet begun to systematically examine other health factors, he is interested in the interactive effects of diet, nutrition and body composition in his research model.

**Michael J. Miller, Ph.D.**

Assistant Professor

Department of Food Science and Human Nutrition

College of Agricultural, Consumer and Environmental Sciences (ACES)

Research Interests: *Functional genomics of lactic acid bacteria (LAB); relationship between gut flora and health; industrial fermentations; food microbiology and safety.*

One focus of research in Dr. Miller's laboratory is on the functional genomics of lactic acid bacteria (LAB). LAB are extremely important in a wide number of beneficial roles including food fermentations (cheese, yogurt, salami, sourdough bread, sauerkraut, etc.), industrial starter cultures (organic acids, amino acids, proteins, etc.), delivery vehicles (vaccines or enzymes) and probiotics (live organisms which confer a health benefit when administered in adequate amounts). With the advent of functional genomics, the mechanisms of LAB function can be explored, enabling the development of improved probiotics that can be used in the treatment of specific diseases. Current projects include: 1. bacteriocin production by *Lactobacillus gasseri*; 2. genetic basis of carbohydrate utilization by *L. gasseri*; and 3. characterization of folic acid biosynthesis in the large intestine. His lab also is researching the relationship between the gut microbiota and health. Specifically, he is interested in the role of the gut microbiota in energy balance and nutrient delivery. Lactic acid bacteria also can be problem contaminants in fuel ethanol fermentations. He is interested in characterizing the contaminants from fuel ethanol fermentations and developing novel non-antibiotic solutions for contamination as well as bacteriophage ecology in industrial fermentations.

**Hans H. Stein, Ph.D.**

Associate Professor of Swine Nutrition

Department of Animal Sciences

College of Agricultural, Consumer and Environmental Sciences (ACES)

Research Interests: *Digestion, absorption and utilization of energy and macronutrients in feed ingredients fed to monogastric animals.*

The focus of the research in Dr. Stein's laboratory is to study digestion, absorption and utilization of energy and macronutrients in feed ingredients fed to monogastric animals. Related areas such as digestive physiology, feed ingredient evaluation and nutrient management are natural extensions of this work. Examples of research in his laboratory include measuring ileal amino acid digestibility and the ileal endogenous losses of amino acids, ileal and total tract digestibility of phosphorus, calcium, lipids and carbohydrates and the endogenous losses of phosphorus and lipids. He also has measured the concentration of digestible and metabolizable energy in a variety of feed ingredients.



Robert Dantzer was the organizer of the Workshop on Cytokines and Depression III, Identification and Treatment of Symptoms Associated with Inflammation in Medically Ill Patients at the International Symposium on Cytokines and Depression, Bordeaux, France, May 26-28, 2007 and organized the 14th Annual Meeting of the Psychoneuroimmunology Research Society, Arcachon, France, May 29-June 2, 2007. He serves as Editor-in Chief of *Psychoneuroendocrinology*, 1992-present and Associate Editor of *Brain, Behavior, and Immunity*, 2000-present. He also serves as an Editorial Board Member of the following: *Behavioral Processes*, *Neuroscience Research Communications*, *Behavioral Pharmacology*, *Physiology & Behavior*, *Neuroimmunomodulation*, *Molecular Psychiatry* and the *European Journal of Pharmacology*.

Elvira de Mejia is serving as Chair, Diet and Cancer Research Interest Section American Society for Nutrition, 2007-2009 and as a Committee Member, Institute of Food Technologists, George F. Stewart International Paper Competition, 2006-2009. She will be Chair, Graduate Research Paper Competition, Institute of Food Technologists, George F. Stewart International Paper Competition, 2008-2010. She also was the Moderator, International Division Oral Session-Food Research Around the Globe, Institute of Food Technologists, Chicago, IL in July 2007.

Sharon Donovan completed her 2-year term (2005-2007) as a member of the Steering Committee for the Energy and Macronutrient Research Interest Section within ASN. She was appointed to the ASN Strategic Oversight Committee for 2007-2010. She also was elected to the Executive Committee for the International Society for Research in Human Milk and Lactation for 2007-2010.

John Erdman, Jr. serves as Chair, Committee on Military Nutrition Research, Institute of Medicine, National Academy of Sciences. He also is on the Executive Committee, International Life Sciences Institute (ILSI) North America Board of Trustees and serves as Chair of the Program Committee for ILSI North America.

George Fahey, Jr. serves as an Editorial Board Member of the following: *Journal of Nutrition*, *British Journal of Nutrition*, *Journal of Animal Physiology and Animal Nutrition* and *Archives of Animal Nutrition*. He also is on the Scientific Advisory Board of GTC Nutrition, Golden, CO, and International Ingredients, Inc., St. Louis, MO.

Peter Garlick served as Chair, World Health Organization Expert Consultation on Dietary Protein and Amino Acid Requirements.

Timothy Garrow and **Nicki Engeseth** are the incoming Co-Associate Heads of Graduate Programs, Department of Food Science and Human Nutrition for 2007-2008. Tim's focus is Human Nutrition and Nicki's focus is Food Science.

Michael Jakoby, IV serves as the Academic Section Head, Division of Endocrinology, and Associate Program Director, Internal Medicine Residency Program, UIUC College of Medicine. He also serves on the Carle Selected Papers Advisory Board.

Schuyler Korban was invited to serve on the editorial board of a newly established journal, *Tropical Plant Biology*, which will be published by Springer. This is in addition to his current duties as an Associate Editor for the following journals: *In Vitro Cellular & Developmental Biology - Plant* and *Plant Cell, Tissue and Organ Culture*. He also was elected to the U.S. Rosaceae Genomics Executive Committee for a 3-year term and the International Rosaceae Genomics Steering Committee for a 3-year term.

Mary Ann Lila served as the Interim Associate Dean for Research, Office of Research, and serves as Director, ACES Global Connect, College of ACES, University of Illinois. She served on the following UIUC committees: Office of Technology Management Advisory Committee, 2006-2007; Planning Team for Gender Equity (invited by Provost Katehi), 2006-2007; Chancellor's *ad hoc* Committee on Biological Education, 2006-2007; Budget Reform Committee of Resource Allocation, 2006-2007; and the Russian, East European and Eurasian Center Executive Committee, 2006-2007. She also served on the following College of ACES committees: International Awards Selection Committee, 2007; Plant Variety Committee, 2006-2007; Space Committee 2006-2007; and the Field Station Task Force. In addition, she serves on the Naked Juice Scientific Advisory Board, Azusa, CA.

Kelly Swanson served as Treasurer of the Experimental Animal Nutrition RIS of ASN in 2006-2007 and was elected as Chair-Elect for 2007-2008. He also is on the Editorial Board for *Animal Feed Science and Technology*.

Kelly Tappenden served in the following capacities: Vice President, American Society for Parenteral and Enteral Nutrition, 2006-2007 (automatic succession to President-Elect, President, Past-President); Secretary/Treasurer, Medical Nutrition Council, American Society for Nutrition, 2006-2007; Special Emphasis Panel (ZDK1-GRB8), National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health; National Research Service Award Postdoctoral Fellowship Review Panel (ZRG1 F06 (20) L), National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health; and American Society for Parenteral and Enteral Nutrition Rhoads Research Foundation Grant Review Panel, Chair. She also serves on the Editorial Boards of *Intestine*; *Journal of Nutrition*; *Current Nutrition Reviews*; and *World Journal of Gastroenterology*.

Kenneth Wilund joined the American Society for Nutrition.

David Baker received the Charles A. Black Award from CAST (Council for Agricultural Science and Technology) and the UIUC College of ACES Alumni Association Award of Merit.

Susan Brewer was cited on the Incomplete List of Teachers Ranked as Excellent for FSHN 575 (Issues in Food Safety) in spring 2007.

Donald Briskin was cited on the Incomplete List of Teachers Ranked as Excellent for HORT 466 (Growth and Development of Horticultural Crops) in fall 2006 and CPSC 588 (Plant Biochemistry) and HORT 180 (Medicinal Plants and Herbology) in spring 2007.

Karen Chapman-Novakofski was promoted to Professor in the Department of Food Science and Human Nutrition. She received the UIUC College of ACES 2007 John Clyde and Henrietta Downey Spittler Teaching Award. She also was selected as Editor-in-Chief of the *Journal of Nutrition Education and Behavior* to begin in Jan 2008.

Byung (Simon) Cho became President, Harlan E. Moore Heart Research Foundation.

Paul Cooke was cited on the Incomplete List of Teachers Ranked as Excellent for VB 615 (General Physiology I) in fall 2006.

Robert Dantzer became the Director of the UIUC Integrative Immunology & Behavior Program in 2006.

Elvira de Mejia was promoted to Associate Professor in the Department of Food Science and Human Nutrition. She received the UIUC College of ACES Faculty Award for Global Impact. She also was cited on the Incomplete List of Teachers Ranked as Excellent for FSHN 416 (Food Chemistry Laboratory) in fall 2006.



Elvira de Mejia and graduate students at the Funk Awards banquet

James Drackley received the UIUC College of ACES 2007 Senior Faculty Award for Excellence in Research. He also won the Nutrition Professionals, Inc. Applied Dairy Nutrition Award.

Ellen Evans was cited on the Incomplete List of Teachers Ranked as Excellent for KIN 452 (Clinical & Applied Exercise Physiology) in fall 2006 and KIN 494 (Special Topics) in spring 2007.

Gregory Freund was promoted to Professor in the Department of Pathology. He also received Carle Foundation Hospital's Research Award.

Thomas Graves was promoted to Associate Professor in the Department of Veterinary Clinical Medicine. He was cited on the Incomplete List of Teachers Ranked as Excellent for VCM 609 (Small Animal Internal Medicine) and VCM 632 (Companion Animal Medicine III) in fall 2006 and VCM 631 (Companion Animal Medicine II) in spring 2007. He also won the Dr. Gordon and Mrs. Helen Kruger Teaching Excellence Award from the UIUC College of Veterinary Medicine.

Kristen Harrison was cited on the Incomplete List of Teachers Ranked as Excellent for SPCM 529 (Seminar Communication Theory) in spring 2007.

William Helferich was cited on the Incomplete List of Teachers Ranked as Excellent for FSHN 595 (Food Science Advanced Topics "Nutrition for Food Scientists") in spring 2007.

Charles Hillman received the 2007 University of Florida Outstanding Young Alumnus Award.

Michael Jakoby, IV was promoted to Clinical Associate Professor of Medicine in July. He had the following two publications: **Jakoby MG, IV**, Kumar JS, Six B, Hall M. Basal-bolus insulin is superior to prevalent methods of diabetes management on the General Medicine Service at a regional medical center. *Carle Selected Papers* 2007; in press; and Vallurupalli S, **Jakoby MG, IV**. Clinicopathological Conference – A 64-year-old male with poorly controlled hypertension. *Carle Selected Papers* 2007; in press. In addition, he had a poster presented at Experimental Biology 2007.

Rodney Johnson was cited on the Incomplete List of Teachers Ranked as Excellent for ANSC 363 (Behavior of Domestic Animals) in fall 2006.

John Killefer was cited on the Incomplete List of Teachers Ranked as Excellent for ANSC 590 (Animal Sciences Seminar) in fall 2006 and spring 2007. He also was selected to be a member of the ACES Academy for Global Engagement class of 2007.

Barbara Klein was a member of the Illinois Center for Soy Foods Team, which received the UIUC College of ACES 2007 Team Award for Excellence.

Schuyler Korban received a 2007-2008 Fulbright Distinguished Chair Award, the highest award given by Fulbright. This award will allow Dr. Korban to spend this fall semester at York University, Toronto, teaching a course, presenting seminars and conducting research. He also received a 2007 American Society for Horticultural Science (ASHS) Outstanding International Horticulturist Award. This award was presented in July at the 2007 ASHS Annual Meetings in Scottsdale, AZ. In addition, he was cited on the Incomplete List of Teachers Ranked as Excellent for HORT 465 (Ethics in Biotechnology) in fall 2006.

Mark Kuhlenschmidt received the Dr. Gordon and Mrs. Helen Kruger All-Around Excellence Award from the UIUC College of Veterinary Medicine.

Donald Layman retired in August 2007.

Soo-Yeun Lee was cited on the Incomplete List of Teachers Ranked as Excellent for FSHN 302 (Sensory Evaluation of Foods) in fall 2006.

Mary Ann Lila received the 2007 Spitze Land-Grant Professorial Career Excellence Award from the College of ACES. She also is the 2006-2008 Elected Awards Chair, Society for In Vitro Biology.

Paul McNamara received the UIUC College of ACES 2007 Faculty Award for Excellence in Extension.

Manabu Nakamura was cited on the Incomplete List of Teachers Ranked as Excellent for FSHN 511 (Regulation of Metabolism) in spring 2007.

William O'Brien, Jr. received an eight-year MERIT Award (Method to Extend Research in Time) from the National Institutes of Health for his project "Ultrasound-induced tissue damage assessment", on which **John Erdman, Jr.** is a co-investigator.

Adrienne Perlman became Head of the Department of Speech and Hearing Science in fall 2007.

Michael Plewa was cited on the Incomplete List of Teachers Ranked as Excellent for CPSC 432 (Genetic Toxicology) with an outstanding instructor rating in fall 2006.

Keith Singletary was cited on the Incomplete List of Teachers Ranked as Excellent for FSHN 520 (Advanced Clinical Nutrition - Nutritional Oncology) and FSHN 595 (Food Science Advanced Topics - Diet and Cancer) in fall 2006. He retired at the end of July 2007.

Hans Stein received the Gamma Sigma Delta Research Award, 2006, SD Chapter.

Kelly Tappenden received the 2007 University of Illinois College of ACES Faculty Award for Excellence in Teaching and the 2007 Teacher Fellow Award from the North American Colleges and Teachers of Agriculture (NACTA). She also was the Moderator for 'Enteral Nutrition Guidelines: An International Approach', Clinical Nutrition Week '06, Phoenix, AZ in Jan 2007 and Chair of 'Probiotics, Prebiotics in GI Health and Disease' Symposia, Digestive Disease Week, Washington, D.C. in May 2007.

Matthew Wallig received the 2006 Outstanding Faculty Advisor Award from the Student Chapters of the American College of Veterinary Pathologists.

Bryan White received the UIUC College of ACES 2007 Paul A. Funk Recognition Award. He also was cited on the Incomplete List of Teachers Ranked as Excellent for ANSC 350 (Cellular Metabolism in Animals) with an outstanding instructor rating in fall 2006.

Kenneth Wilund was nominated by the UIUC Campus Research Board to submit a proposal for the 2007 Ellison Medical Foundation New Scholar Award in Aging. This nomination followed a campus-wide grant proposal competition among young investigators performing aging-related research. He also was cited on the Incomplete List of Teachers Ranked as Excellent for KIN 594 (Special Topics) in spring 2007.

Jeffrey Woods was cited on the Incomplete List of Teachers Ranked as Excellent for KIN 450 (Biochemistry of Exercise) and KIN 557 (Stress Immunology) in spring 2007.

Robert Dantzer received the following two grants: “AIDS, immune activation and mental health”, 2006-2011, from NIH/NIDA and “Neuroimmune mechanisms of depressive-like behavior during aging”, 2007-2012, from NIH/NIA.

Sharon Donovan received new grants from Arla Foods, Mead Johnson Nutritionals and Wyeth Nutritionals.

George Fahey, Jr. received new grant support from General Mills, USDA, Kraft Foods, GTC Nutrition, Temple-Inland Corp., Orafti, Cargill, Embria Health Services and ADM.

Peter Garlick established a Stable Isotope Mass Spectrometry Facility that can provide advice, collaboration and/or analytical help with the use of stable isotopic tracers and analysis of the stable isotope enrichment of metabolites (e.g., amino acids, glucose, CO₂ in samples derived from metabolic studies in animals or humans). The facility has a new Mass Spectrometrist who is developing techniques for measuring isotopic enrichments of metabolites such as amino acids and glucose, labeled with either deuterium or carbon-13, by GCMS. In addition, a gas isotope-ratio mass spectrometer can be used to assess the isotopic enrichment of gasses (e.g., CO₂ or N₂, either atmospheric or derived by combustion), using a GC-isotope ratio mass spectrometer.

Charles Hillman received both a UIUC Research Board Grant and a NEER Grant.

Schuyler Korban received funding from the United Soybean Board to pursue genomics studies on rust resistance in soybean and the DOE-Joint Genome Institute (JGI) has selected the peach genome for sequencing, a project that Dr. Korban is helping to lead. The Korban laboratory has been pursuing genomics studies on fruit quality traits in apples and has identified genes controlling starch branching enzymes, methyltransferases and flavonoid biosynthesis. Dr. Korban also has developed a 40,000-apple oligo microarray that will be used for functional studies to investigate the transcriptome of the apple genome. This microarray will be made available worldwide.

Mary Ann Lila received the following two grants: “Efficient flavonoid recovery from continuous plant cell cultures”, 2006-2007, from Kraft Foods and “Enabling pharmaceutical bioexploration in Tanzania”, 2007, from the National Collegiate Inventors and Innovators Alliance (NCIIA).

Hans Stein received a grant, entitled “A North American swine energy system” from the National Pork Board.

Kelly Swanson received research funding from Nestle Purina PetCare, Illinois Council on Food and Agricultural Research (C-FAR), Beghin-Meiji and General Mills.

Kelly Tappenden received the following two grants: “PhD completion project- phase II” from the Council of Graduate Studies and “Intersociety Nutrition Research Workshop: a joint effort between the American Society of Parenteral and Enteral Nutrition, American Dietetic Association, American Society for Nutrition, and the North American Society for the Study of Obesity” from the National Institutes of Health.

Kenneth Wilund received the following grants: “Effect of grape seed extract on vascular calcification in uremic mice”, 2006-2008, a Purdue University Botanicals Center Pilot Grant; “Effect of a polyphenol-enriched diet of aortic calcification in uremic mice”, 2006-2007, a UIUC NEER Grant; “Effects of soy protein on vascular calcification and bone mineral density in a model of uremia”, 2006-2007, from the Illinois Soy Board; and “Proteomic approaches to examining the impact of soy in a model of uremia”, 2007-2008, from the Illinois Soy Board. He also recently began collecting pilot data and submitted an American Heart Association Scientist Development Grant to examine the role of the parasympathetic nervous system in regulating atherosclerosis.

David Baker presented the following: "Animal models in nutrition research", Experimental Biology 2007, Washington, D.C.; "The thrill of discovery: by design and by accident", Leveille Symposium, Purdue University, West Lafayette, IN; "Glutamine and proline in nutrition", Tokyo, Japan; and "What's new in amino acid research", Wuhan, China.

Robert Dantzer presented the following: "Psychoneuroimmune perspectives on somatization", APA-WHO-NIH Workshop on Somatic Presentation of Mental Disorders, Beijing, China, Sep 2006; Invited plenary lecture on "Interactions of the immune system and the brain", Annual Meeting of the European College of Neuropsychopharmacology, Paris, France, Sep 2006; "Psychoneuroimmune perspectives on somatization", GlaxoSmithKline Workshop on Somatization, Dallas, TX, Oct 2006; Invited opening lecture on "Cytokines action in the brain: from sickness behavior to depression", Symposium on Stress, Behaviour and Immune Response, Greifswald, Germany, Nov 2006; "Cytokines and depression: what are the intermediate mechanisms?", Conference on Depression, Brain Causes – Body Consequences, Institute of Psychiatry, King's College, London, Apr 2007; "Bidirectional interactions between the brain and the immune system", Workshop on Neuropsychosteology, The Hebrew University of Jerusalem, the Institute for Advanced Studies, Jerusalem, Israel, Apr 2007; and "Inflammation, cytokines and symptoms in physically ill patients", International Symposium on Cytokines and Depression, Bordeaux, France, May 2007. He also was an invited participant in the Third International Nutrition Symposium, Centre de Recherches Nestle, Lausanne, Switzerland, Oct 2006.

Elvira de Mejia presented "Research on bio-product chemistry and medically active compounds in foods and teas research initiative", Global Institute for Bio-Exploration, Quito, Ecuador in Jul 2007 and "Health benefits of Yerba mate tea", Yerba Mate Association of the Americas, Misiones, Argentina in Aug 2007.

Sharon Donovan presented "Effect of milk components on intestinal gene expression in the piglet model" at the 2006 Meeting of the International Society for Research in Human Milk and Lactation, Niagara-on-the Lake, Ontario, Canada in Sep 2006 and "Soy in the Diets of Infants and Children", Illinois Dietetic Association Meeting, Oakbrook, IL in Mar 2007.

John Erdman, Jr. presented two talks as part of the 7th International Soy Symposium, Bangkok, Thailand. He also presented three talks at the 10th Asian Congress of Nutrition, Taipei, Taiwan.

George Fahey, Jr. gave four invited presentations on various aspects of the topic "Carbohydrate nutrition and health" and presented at Kraft Foods and at the 2007 Institute of Food Technologists meeting. He also gave eleven presentations on various topics related to companion animal nutrition at the XII AAAP Animal Science Congress, Busan, Korea; Neuva Technologia en Alimentacion, Queretaro, Mexico; Petfood Forum, Chicago, IL; California Animal Nutrition Conference, Fresno, CA; Dae Joo Co., Incheon, Korea; National Taiwan University, Taipei; Taiwan Livestock Research Institute, Tainan; International Scientific Association for Prebiotics and Probiotics, London, England; American Society of Animal Science Annual Meeting, San Antonio, TX; and Cargill, Minneapolis, MN.

Peter Garlick presented a guest lecture, entitled "Protein and amino acid requirements; how are they determined, and what determines them?" at the Annual Meeting of the Japanese Nutrition Society, Shikoku Branch. He gave similar lectures at the Ajinomoto Company, Kawasaki and the Ohtsuka Chemical Company, Tokushima. He also gave the following two presentations: "Protein turnover in human tissues: influence of nutrition, injury and disease", University of Alberta, Human Nutrition Unit, Edmonton, Canada and "Stable isotopes and protein turnover: from flux to flooding", McGill Nutrition & Food Science Centre's 19th Annual Research Day, McGill University, Montreal, Canada.



Peter Garlick in Japan - ironing?!

Charles Hillman presented the following: Plenary lecture on "Physical activity and neurocognitive function in preadolescent children", Brain Development & Learning Conference: Making Sense of the Science, Vancouver, British Columbia in Aug 2006; Keynote lecture on "Physical activity and cognitive control across the lifespan", Center of Excellence Promotion of Health and Sport Scientific Research Conference, Tokyo, Japan in Oct 2006; three talks at the Department of Sport and Health Sciences, Tsukuba University, Tsukuba, Japan; "Physical activity and cognitive control during early and late stages of the human lifespan", Center for Research in Experimental Neuropsychology and Cognition, University of Montreal, Canada in Jan 2007; "Emotion and motivated behavior: postural adjustments to affective stimuli", Department of Exercise and Sport Sciences, University of Montreal, Canada in Jan 2007; "Physical activity and cognitive control during early and late stages of the human lifespan", Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL in Apr 2007; and "Physical activity influences on cognitive control", Interactions Among Movement, Physical Exertion and Cognitive Performance (IMPAC), United States Army Natick Soldier Research Development and Engineering Center, Natick, MA in Jun 2007.

Michael Jakoby, IV lectured on hospital diabetes management at the University of Illinois International Diabetes Symposium in Sep 2007.

Schuyler Korban presented talks at University of Missouri, Michigan State University, Purdue University and Kansas State University on his genetics and genomics work in apple and other plant species. He also presented two invited seminars and served on the jury of a Ph.D. Final Exam in Jul 2006 at the Catholic University of Leuven in Belgium.

Mary Ann Lila presented the following: "Relevance of wild blueberry component interactions to protection from diabetes complications", WBANA Health Research Summit, Bar Harbor, ME in Aug 2006; "Bioexploration in central Asia and beyond", REEEC Colloquium, Urbana, IL in Sep 2006; "Bioexploration on the global front", NRES Seminar, Urbana, IL in Sep 2006; "Bioexploration in Central Asia", ACES Global Academy Immersion trip, Queretaro, Mexico in Oct 2006; "De Bayas a Frijoles: efectos protectivos a la salud atribuidos a las plantas alimenticias con pigmentos", ACES Global Academy Immersion trip, San Luis Potosi, Mexico in Oct 2006; "Plant medicines around the world", Specialty Growers Association, Springfield, IL in Jan 2007; "Biodiversity, medicine, human health and Kazak-Tajik-America partnerships", Tajik-Kazak07 Central Asia ICBG Expansion and Renewal, Dushanbe, Tajikistan and Almaty, Kazakstan, in Jan 2007; Keynote presentation on "New insights into the kinetics and biodistribution of ingested bioactive plant compounds through *in vitro* radiolabeling", International Association of Plant Tissue Culture and Biotechnology - New Zealand Branch, Rotorua, New Zealand in Feb 2007; "Recognizing the international dimensions of scholarship: ACES Academy for Global Engagement" (Joint presentation with Elvira de Mejia), Rotary Club, Savoy, IL in Apr 2007; "Who we are & what we eat: the role of metabolomics and nutrigenomics in creating healthier foods and healthier lives. Impacts of bioactive food components on chronic disease and metabolic balance: tracking the kinetics and biodistribution after ingestion", North Carolina Research Campus Initiative, Charlotte, NC in Apr 2007; "Global Institute for BioExploration - opportunities and funding", ACES Global Connect Workshop on Global Grantsmanship, Urbana, IL in May 2007; and "Dietary berries & performance enhancement", Berry Health Benefits Symposium, Corvallis, OR in Jun 2007.

James Robinson presented a Pioneer lecture, "Serendipity in science: The DUMPS story", at the 2007 meeting of the American Dairy Science Association in San Antonio, TX in July.

Hans Stein gave the following four invited talks in Colombia: "Concepts in energy metabolism in animals", "Concepts in amino acid metabolism in animals", "Digestibility and absorption of amino acids" and "Nutrition of lactating sows".

Kelly Swanson presented the following: "Nutrigenomics and liver metabolism", The 10th Congress of the European Society of Veterinary and Comparative Nutrition (ESVCN), Nantes, France; "Using molecular techniques to study canine and feline gut microbial ecology", 2006 Nestlé Purina Nutrition Forum, Lausanne, Switzerland; "Applying genomic biology to companion animals", North Dakota State University Department of Animal and Range Sciences, Fargo, ND; "Studying obesity in pets: can man's best friend teach us a few tricks?" Texas A&M University Department of Nutrition and Food Science, College Station, TX; "Applying emerging technologies to companion animals", Experimental Biology 2007, Washington, D.C.; "Applying genomic technologies to pets", 2007 BIO International Convention, Boston, MA; "Adipose tissue transcriptomics: application to pet obesity", Alltech's 23rd Annual Feed Industry Symposium, Lexington, KY; "Canine brain transcriptomics: dietary effects in geriatric and young adult dogs", 13th Annual Canine Cognition, Aging & Neuropathology Conference, Toronto, Ontario, Canada; "Companion animal obesity: role of adipose tissue", National Taiwan University Department of Animal Sciences and Technology, Taipei, Taiwan; "Genomic biology and the pet food industry", National Taiwan Conference on Companion Animal Nutrition, Tainan, Taiwan.

Kelly Tappenden presented the following: "Supporting the Gut – What's the Best Approach?", International Confederation of Nutrition Support Organizations - La Asociación Mexicana de Alimentación Endovenosa y Continuing Medical Education Course, Mexico City, Mexico in Aug 2006; "Intestinal failure: translating science into effective quality care", American Dietetic Association's Food and Nutrition Conference and Exposition, Honolulu, HI in Sep 2006; "Pathophysiology of intestinal failure and emerging therapies", European Society for Parenteral and Enteral Nutrition Clinical Congress, Istanbul, Turkey in Oct 2006; "Butyrate - a trophic factor enhancing intestinal function", Biotecnologia Habana '06 - Bio-Medical Applications of Biotechnology, Havana, Cuba in Nov 2006; "Strategies for enhancing intestinal absorption", Pharmavite LLC, Valencia, CA in Dec 2006; "Prebiotics and probiotics – strategies for enhancing intestinal function", Oley Foundation Regional Conference, Phoenix, AZ in Jan 2007; "Mechanisms of intestinal adaptation", Guts and the City Symposium, Mt. Sinai School of Medicine, New York, NY in Feb 2007; Guest lecture on "Intestinal development and regulation", Nutritional Sciences Council, University of Iowa, Iowa City, IA in Mar 2007; "The health benefits of probiotics and their importance in disease prevention: guidelines for the clinical practice", American Nutraceutical Association Continuing Medical Education Conference - The Role of Diet, Nutrition and Nutraceuticals in Disease Prevention, Long Beach, CA in Mar 2007; and "Pre- and pro-biotics: rationale for regular consumption", National Institutes of Health, Office of Dietary Supplements, Bethesda, MD in Apr 2007.

Kenneth Wilund presented "Physical activity, bone mineral density and vascular calcification in the elderly" at the American College of Sports Medicine's Integrative Physiology Meeting, Indianapolis, IN in Sep 2006.

George Fahey, Jr.'s oldest daughter, Laura, graduated from the University of Illinois on May 12, 2007.

Peter Garlick became a grandfather!

Robert Reynolds traveled to Iceland in the summer. The photo of him was taken by his wife on August 1 just outside Siglufjordur, Iceland. The approximate latitude is 66 degrees, 11 minutes north, just a short ways south of the Arctic Circle. The wind was blowing at an estimated 50 to 60 mph and the temperature was about 42°F. And through all this he was wearing his DNS hooded sweatshirt, carrying the message of DNS worldwide - even to the polar bears!

Kelly Swanson's third daughter, Alice, was born on March 7, 2007. Congratulations!



ALUMNI NEWS & EMAIL ADDRESSES

1973

Delia Protacio, M.S., is retired from working as a Clinical Dietitian and resides in West Covina, CA. (protad23@dslextreme.com)

1982

Debbie Stastny, M.S., continues as a Proposal Manager at Eclipsys Corp. in Roswell, GA. (debstastny@hotmail.com)

1983

Edward Basgall, Ph.D., had total knee replacement surgery in July. He is between jobs but looks forward to finding a new position once he has recuperated. (ejb1176@gmail.com)

Kenneth Poirier, Ph.D., continues as President of Poirier & Associates, LLC in West Chester, OH. (kpoirier@cincinnati.com)

1984

JoAnn Daehler-Miller, M.S., is a Health Coach/Wellness Consultant at the LiveWELL Program (faculty and staff wellness program), University of Iowa, Iowa City, IA. She gave a presentation at the National Wellness Institute Annual Conference in Stephen's Point, WI in July 2007. (jomiller@mchsi.com)

1987

Frances Yen Potin, Ph.D., is the Director of Research, Lipidomix: Functional Genomics of Lipid Metabolism, Laboratory of Medicine and Molecular Therapy, National Polytechnic Institute of Lorraine (INPL), Vandoeuvre-lès-Nancy, France, a part of the National Institute of Health and Medical Research (INSERM), which is equivalent to the NIH in the U.S. (frances.yenpotin@mtm.nancy.inserm.fr)

1988

Kevin Fritsche, Ph.D., was promoted to Professor in the Department of Animal Sciences, Department of Nutritional Sciences and Department of Molecular Microbiology and Immunology, University of Missouri-Columbia, Columbia, MO. He is a member of the Public Information Committee for the American Society for Nutrition and is on the Editorial Boards of the *Journal of Nutritional Biochemistry* and *Nutrition Research*. He celebrated his 25th wedding anniversary in Alaska with wife, Alisa, and four children. (FritscheK@missouri.edu)

1988

Melissa (Hendrix) Olken, M.D./Ph.D., is a Physician in Internal Medicine, Portage Physicians, P.C., Portage, MI. In addition to clinical activities in general internal medicine, she is the director for the medical bariatrics program at Borgess Medical Center. Her oldest son, Alex, is a high school junior; he is an outstanding guitar player and budding film maker. Her youngest son, Charlie, is a freshman and enjoys forensics competition. (dietfood56@aol.com)

1990

Hsi-Chiang Lin, Ph.D., is an Instructor in Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA. (hclin@bidmc.harvard.edu)

1993

Alexandra Adams, M.D./Ph.D., is an Assistant Professor in the Department of Family Medicine, University of Wisconsin, Madison, WI. She was awarded a U-01 grant for healthy lifestyles intervention in American Indian communities in Wisconsin, 2006-2011. She is managing 3 children, ages 3, 9 and 13, and a full-time academic career in obesity prevention and treatment (research/clinical). (alex.adams@fammed.wisc.edu)

Leslie Bourquin, Ph.D., is an Associate Professor in the Department of Food Science and Human Nutrition and The National Food Safety and Toxicology Center, Michigan State University, East Lansing, MI. He received a Fulbright Grant to conduct research on "Risk governance in food safety" in the Ingénierie Agroalimentaire (IAAL) department of the École Polytechnique Universitaire de Lille (part of the University of Science and Technology of Lille) in Lille, France from Sept. 2007 - Aug. 2008. (bourqui1@msu.edu)

Barbara Fulton, M.D./Ph.D., is a Pediatric Pathologist at Helen DeVos Children's Hospital in Grand Rapids, MI. (barbara.fulton@spectrum-health.org)

1994

Minnie Holmes-McNary, Ph.D., continues as an Associate Professor, Department of Biology at the North Carolina Agricultural and Technical State University in Greensboro, NC. She is a reviewer for *Nutrition and Cancer*. She received a Talent 21-NSF Faculty Travel Award and an American Association for Cancer Research-Minorities in Cancer Research Faculty Award. (mhmcnary@ncat.edu)

1994

Joan (Rokusek) Paul, M.S., and **Greg Paul**, Ph.D. (1994) welcomed their 4th child in Sept 2007. (joantpaul@charter.net and glpaul@charter.net)

1995

Mary (Larson) Dicklin, Ph.D., is a Clinical Research Scientist/Medical Writer at Provident Clinical Research & Consulting, Inc., Glen Ellyn, IL. (mdicklin@providentcsrc.com)

Carrie Earthman, M.S., continues as an Assistant Professor, Department of Food Science & Nutrition, University of Minnesota, St. Paul, MN. (cearthma@umn.edu)

1997

Vicki Houle, Ph.D., started a new job as a Senior Medical Writer, Boston Scientific Corp., Marlborough, MA in Sept. 2007. (vickihoule@gmail.com)

1998

Tia Rains, Ph.D., started a new position as Clinical Research Scientist, Medical Writer, Provident Clinical Research & Consulting, Inc., Glen Ellyn, IL. (saltt@ameritech.net)

1999

Sean Barnes, M.D./Ph.D., continues as a Postdoctoral Fellow, Division of Digestive Health, University of Virginia Health System, Charlottesville, VA. He will begin a Clinical Chemistry Fellowship, Department of Pathology and Laboratory Medicine, University of Louisville in January 2008. (sb7af@virginia.edu)

Amy Boileau, Ph.D., became Manager, Scientific and Regulatory Affairs at Cargill, Inc., Wayzata, MN in fall 2006. (amyboileau@hotmail.com)

Maria (Ezzatkah) Mobasser, M.S., became Department Chair, Dept. of Computer Science and Information Technology, Parkland College, Champaign, IL. (MMobasser@parkland.edu)

2000

Carolyn (Huntington) Buff, M.S., became Undergraduate Coordinator, Department of Animal and Dairy Sciences, Mississippi State University, Mississippi State, MS. (cbuff@ads.msstate.edu)

Annette (Cole) Boogerd, M.S., continues as a Diabetes Educator, Primary Care Group, University of Chicago Medical Center, Chicago, IL. (Annette.Boogerd@uchospitals.edu)

Beth Flickinger, Ph.D., continues as a Nutritionist, Research and Development, The Iams Co., Lewisburg, OH. She is a member of the American Society for Nutrition and the North American Association for the Study of Obesity. She took a series of gourmet cooking classes and rediscovered the joy of preparing fabulous dishes! (flickinger.ea@pg.com)

2000

Deshanie (Ganessunker) Rai, Ph.D. continues as a Principal Research Scientist, Global Infant Research and Development at Mead Johnson Nutritionals in Evansville, IN. She received the Mead Johnson President's Award in Dec 2006. She became an Adjunct Assistant Professor in the Department of Food Science and Human Nutrition at UIUC in Oct 2007. Deshanie is a member of the International Society for Research in Human Milk and Lactation (ISRHML) and the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). She had a baby girl in September 2006. (deshanie.rai@bms.com)

2001

Tom Boileau, Ph.D., became a Senior Nutrition Scientist, Bell Institute of Health and Nutrition, General Mills, Inc., Minneapolis, MN in fall 2006. (tboileau2002@yahoo.com)

Denise Deming, Ph.D., continues as Principal Scientist in Nutrition, Gerber Products Co., Florham Park, NJ. (denise.deming@gerber.com)

Kasey Heintz, M.S., is the Manager of Nutrition Programs, PMK Associates, Inc., Alexandria, VA. (kaseyheintz@hotmail.com)

Anna Keck, Ph.D., started a new position as Director of Research Foundation Office, The Carle Foundation, Urbana, IL. (Anna.Keck@carle.com)

2002

Bart Deplancke, Ph.D., started a new position as Assistant Professor of Bioengineering, Institute of Bioengineering, Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland in Oct 2007. (bart.deplancke@epfl.ch)

2003

Cassandra Delgado-Reyes, Ph.D., continues as Faculty Specialist (Instructor), Texas Interdisciplinary Plan (TIP) (College of Liberal Arts and College of Natural Sciences plan) at the University of Texas in Austin, TX. She also is the coordinator for the newest TIP initiative, Getting Ready for Advanced Degrees (GRAD) program. The GRAD program is designed to provide a venue for exploring higher education past the undergraduate degree for both Liberal Arts and Natural Sciences TIP students through research, internships, mentoring, discovery and experiential learning. (chemicass@rocketmail.com)

Jill (Gorski) Drum, M.S., is a Project Leader, Renal Division, Baxter Healthcare, McGaw Park, IL. (jillmdrum@yahoo.com)

Jennifer Seyler Griffin, M.S., started a new job as an Account Supervisor, Current Lifestyle Marketing, Chicago, IL. She is the Vice President of the Chicago Nutrition Association. Jennifer got married in Mexico in May 2007. (jseylernutrition@hotmail.com)

2003

Justine (Olsen) Karduck, M.S., is a Nutrition Education Coordinator/SportWell Coordinator, SportWell Center, University of Illinois, Urbana, IL. She was recognized as an Exceptional Health Educator in the McKinley Health Center Special Populations Program 2005, 2006 and acquired her Certified Diabetes Educator (CDE) credential in 2006. She is the Nominating Chair for the Eastern Illinois Dietetic Association and Membership Chair for the Central Illinois Diabetes Educators Association. Justine also is a member of the Parkland College Dietetic Technician Advisory Board, the American Association of Diabetes Educators and the American Diabetes Association. She is expecting twins in Nov 2007! (karduck@uiuc.edu)

2004

Jamie Baum, Ph.D., started a new position as a Research Scientist, Unilever R & D, Vlaardingen, The Netherlands. (Jamie.Baum@unilever.com)

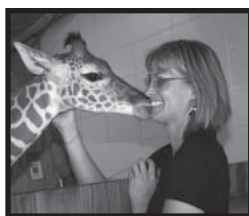
Anne (Bartholome) Falk, Ph.D., started a new position as Medical Science Liaison, Global Medical Affairs, GI Division, Shire Pharmaceuticals, Wayne, PA. (afalk31@hotmail.com)

Victoria (Wade) Grey Owl, Ph.D., is a Researcher III, American Indian Health Research Program, Black Hills State University, Spearfish, SD. (VictoriaGreyOwl@bhsu.edu)

E. Lauren Petr, M.S., became a Dietitian, Plumgood Food, Nashville, TN. She is on the Healthy Practices Subcommittee of Alignment Nashville, a Corporate Member of the Food Security Partners of Middle Tennessee and serves as Council on Professional Issues Chair Elect for Nashville District Dietetics Association (NDDA). She was nominated for the NDDA Recognized Young Dietitian of the Year award. Lauren purchased her first home. (elpetr77@yahoo.com)

2005

Cheryl Dikeman, Ph.D., continues to work at the Henry Doorly Zoo in Omaha, NE. As the zoo's Animal Nutritionist, Cheryl is responsible for the diets of more than 1,000 species. Between the diversity of formulating diets for anything from frogs to primates, managing the zoo's diet prep area, conducting nutrition research projects in the zoo's first nutrition laboratory and educating visitors, Cheryl's daily activities are far from routine. Over the summer of 2007, Cheryl assisted with the hand-rearing of a male giraffe calf born July 14. The challenges began with a 24 hour calf that weighed nearly 200 Lb, stood over 6 feet tall and a team with no experience hand rearing a giraffe calf. Add in the fact that purchasing a giraffe formula was not a reality, the task seemed more than daunting. With multiple analyses on mixed formulas, and through



the dedicated efforts of the team at the zoo, the calf continues to thrive, grow and bring numerous smiles. (cheryld@omahazoo.com)

2005

Alejandra Gratson, Ph.D., started a position as Formulation Scientist, Fortitech, Inc., Schenectady, NY in Oct 2006. (alegraya@gmail.com)

Marlene Guillon, M.S., is working as a Research Associate II, Peripheral Nervous System, Roche Palo Alto LLC, Palo Alto, CA. (marlene_guillon@hotmail.com)

Lilly Sueiro, M.S., started working as a Territory Business Manager, Mead Johnson Nutritionals, Worldwide Pharmaceuticals and Clairol, Bristol-Myers Squibb Puerto Rico, Inc., San Juan, Puerto Rico in Aug 2006. (lillyan6@gmail.com)

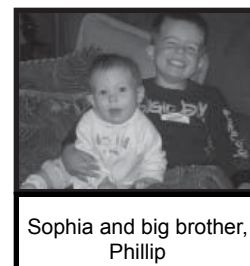
2006

Susan Evans, M.S., began as Assistant to the Director, Dietetic Internship Program, Dept. of Food Science and Human Nutrition, University of Illinois, Urbana, IL and started a new position in 2007 in the department as a Visiting Research Dietitian. Her daughter, Alice Elizabeth, was born in March 2007. (sevans1@uiuc.edu)



Yan Gao, M.S., started a new position as Database Administrator, Strata-Decision Technology, LLC, Champaign, IL. (yan6gao@hotmail.com)

Jessica Hartke, Ph.D., had two abstracts published: Hartke JL, Drnevich JM, Wheeler MB, Donovan SM. Transgenic overexpression of insulin-like growth factor-I (IGF-I) in milk influences intestinal development and gene expression in piglets. *The FASEB Journal* 2007; 21:A1077 and Hartke JL, Drnevich JM, Wheeler MB, Donovan SM. Microarray analysis of intestinal gene expression in piglets suckling sows transgenic for insulin-like growth factor-I in milk. *Journal of Human Lactation* 2007; 23:84. She and her husband welcomed their second child, Sophia Ruth, on Feb 10, 2007.



Sophia and big brother, Phillip

Keng-I Lin, M.S., was a Food Service Summer Intern, Signature Service Corp. at the Victory Junction Gang Camp, Randleman, NC in summer 2007. This camp enriches the lives of children with chronic medical conditions or serious illnesses by providing life-changing camping experiences that are exciting, fun and empowering, in a safe and medically sound environment. (lin.kengi@gmail.com)

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