

NUTRITIONAL SCIENCES NEWS

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

Vol 14, Fall 2001

NOTE FROM THE DIRECTOR:

This year, I am more aware than ever of how important my family is and am motivated to increase my personal and professional commitment to our students, faculty and alumni. Looking back on 2001, it has been a wonderful year for the Division, with significant achievements and accomplishments. Summarized below are some of the key Division activities and accomplishments in 2001. However, my sense of accomplishment is tempered by the personal losses and grief experienced by many after September 11th. This year, we held our External Advisory Committee meeting on September 12-13th and I was gratified that six of our ten members were able to participate in the meeting.

- **Faculty and Students:** The Division continues to grow! This year, we added four new faculty members from the Colleges of ACES and Veterinary Medicine. Their research interests are described on pages 8 and 9. We now have 47 faculty members representing 13 different departments in 7 colleges. We also accepted nine new graduate students with diverse undergraduate training. Please see page 3 for additional information on our new students.
- **Honors and Awards:** Nutritional Sciences faculty and students were once again well represented at the ASNS Awards ceremony at EB 2001. Rod Johnson received the 2001 Bio-Serv Award. This is the third consecutive year that a Nutritional Sciences faculty member has received this prestigious award! Three Nutritional Sciences students were selected for abstract competitions. Keri Kles and Anne Bartholome were finalists in the ASNS Procter and Gamble Abstract Competition and Nancy Correa-Matos was a finalist in the ASCN Young Investigator Competition. Anne Bartholome also received the ASNS Kraft Foods Predoctoral Fellowship. More information on these and other student and faculty awards can be found on pages 18-19 and 24-26, respectively.
- **Training Grants:** The Division received excellent reviews and recommendations for ~ \$1 M in funding for two training grants and we hope to have funding in place for new fellows in Fall 2002. An NIH Training Grant will support pre- and postdoctoral fellows in the Division with a focus in "Inflammation and Nutritional Dysfunction". The USDA National Needs Training Grant will support predoctoral fellows with research projects focused on protein/amino acids or lipid/fatty acids. The USDA fellowship will include a focus on the application of genomic, proteomic and metanomic approaches to investigate protein and lipid metabolism and gene regulation.
- **Nutritional Sciences Endowment Fund:** The Nutritional Sciences Endowment Fund continues to grow. We have raised ~ \$70,000 in donations from individuals and corporations. Please see page 5 for additional information on the initiative and a list of current donors. We also will be announcing this spring at least one major corporate contribution that will include the establishment of permanently endowed graduate fellowships.
- **Administrative Accomplishments:** In addition to the items above, we updated our web site (see page 33), finalized our Strategic Plan for 2001-2006 and began developing new recruiting materials. Linda Barenthin was also promoted to Administrative Secretary.



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

Page 1	Letter from Director
Page 2	Table of Contents & Letter from Editor
Page 3	External Advisory Committee
Page 4	Nutritional Sciences Endowment Fund
Page 5	New Students
Page 6-7	Congratulations Graduates
Page 7	Linda Barenthin's Promotion
Page 8	Student Fellowships and Margin of Excellence Awards
Page 9-10	Student Awards and Achievements
Page 11-12	Student Publications
Page 12	NSGSA Faculty Award
Page 13	NSGSA Update
Page 14-15	Nutrition Symposium 2001
Page 16-17	New Faculty
Page 18-20	Faculty Awards, Achievements and Recent Grants
Page 21-22	Faculty Invited Talks
Page 23	M&M Mars Lectureship and D.H. Baker Symposium
Page 24	D.H. Baker Symposium, continued
Page 25-26	Seminars 2000-2001
Page 27-28	Alumni News
Page 29-31	Get Connected with Alumni, Faculty and Students
Page 31-32	Photo Gallery from EB 2001
Page 33	New Division Web Site

One more year has gone by for the Division of Nutritional Sciences. I hope you enjoy reading about the latest achievements and endeavors of students, staff, faculty and alumni. This has been an exciting year with the announcement of the human genome sequence. Even more exciting is the role of nutrition in proteonomics. As the year comes near the end, I hope all is well with family and friends. Thanks for contributing to the newsletter. I really enjoyed hearing from all of you! A special thanks should be given to Linda and Dr. Donovan for their patience. Also, thanks to all the people who took pictures and donated pictures. And finally, to Dr. Robinson and Sandy Hannum for their contributions.

-Keri Kles

Please join us at the EB 2002
U of I Nutrition Mixer Mon-
day, April 22, 2002 6:30-8:30
PM Grand Salon C, Hilton New
Orleans Riverside.

Dr. Robert A. Burns
Director, Discovery
Mead Johnson Nutritionals
Evansville, IN

Dr. Gail L. Czarnecki-Maulden
Senior Research Nutritionist
Friskies Research & Development
St. Joseph, MO

Dr. Gilbert A. Leveille
World-Wide Vice President for
Scientific & Regulatory Affairs
McNeil Consumer Healthcare
Fort Washington, PA

Dr. Eric L. Lien
Director, Nutritional Research
Wyeth-Ayerst Laboratories
Philadelphia, PA

Dr. Alfred H. Merrill, Jr.
Professor of Biochemistry
Department of Biochemistry
Emory University School of Medicine
Atlanta, GA

Dr. Russell J. Merritt
Medical Director, Pediatric Nutrition
Ross Products Division
Abbott Laboratories
Columbus, OH

Dr. Robert M. Russell
Associate Director
USDA Human Nutrition Research Center for Aging
Tufts University
Boston, MA

Dr. Doyle H. Waggle
Senior Vice President of Technology
Protein Technologies International
St. Louis, MO

Dr. Connie M. Weaver
Professor and Head
Dept of Foods & Nutrition
Purdue University
West Lafayette, IN

Many thanks are given to the 2000 External Advisory Committee for their valuable contributions to the Division of Nutritional Sciences.

Ideal mentor: Those who encourage independent thought and input from their students without being overly critical. They are leaders in their fields, and act as a resource for those pursuing study in that field. They are easily approachable and patient when it comes to answering their students' questions. They push their students to achieve high standards, the level of which is no less than they would set for themselves. They are ethical, academic and thoughtful. **Ideal student:** Not lazy, but eager to learn and advance study in their respective fields. They should be able to seek out resources independently, yet recognize when they need to seek help from others. Like mentors, they should set high standards for themselves. They recognize that failure is not a personal defeat, but rather an opportunity to learn and grow. ---Tracy (Tasker) Chivari, M.S. 1991

NUTRITIONAL SCIENCES ENDOWMENT FUND

The Nutritional Sciences Endowment Fund will strengthen the Division by providing continuing support for the scientific and professional development of graduate students. First announced at Experimental Biology 2000, it expects to garner \$100,000 from individuals before Experimental Biology 2002 in April. As this Newsletter goes to press, over \$70,000 has been raised from current and former students and faculty, as well as friends of the Division. The support of current faculty and students has been strong; 60% of current students have contributed to the Fund, and the Nutritional Sciences Graduate Student Association made contributions from the proceeds of their fundraisers. If you would like to be among the founding contributors to this Endowment Fund, please send your check made out to the University of Illinois Foundation to Linda Barenthin, Division Secretary. In addition to individual gifts, corporate support is also being solicited. At Experimental Biology 2002, we will announce at least two named graduate fellowships (on the basis of a \$150,000 contribution) and a cornerstone investment of a million dollars that will involve two named graduate fellowships and a named professorship. If you would like to suggest additional corporations that should be approached, please contact Professor Robinson (217-333-2469; jlrobins@uiuc.edu), who has agreed to head up this effort. Many thanks to those who have contributed. Below is an incomplete list of contributors.

Albin, David	Forbes, Richard	Moran, Peggy E.
Alekel, Lee	Freund, Gregory	Nakamura, Manabu T.
Allred, Clinton	Garrow, Tim	Nishida, Toshiro
Anthony, Tracy Gautsch	Gratson, Alejandra A.	Novakofski, Jan
Anthony, Josh	Grieser, Mary L.H.	O'Connor, Deborah L.
Baker, David	Griminger, Paul	Osadjan, David G.
Bartholome, Anne	Gustashaw (Reardon), K.	Painter, Sara & Scott
Bauer, Laura	Hansen-Burns, Julie	Patel, Mulchand S.
Baum, Jamie	Harlan Moore Heart Fdn.	Pelletier, Helen R.
Berg, Brian	Hardhbarger, Kenneth E.	Pepsico Foundation
Boileau, Richard	Hartke, Jessica	Peterson, Cathy
Bosco, Mariana	Hasler, Clare	Poirier, Kenneth
Bourquin, Leslie	Hatch, Terry F.	Rainville, Alice Jo
Broquist, Henry P.	He, Weisong	Robinson, James L.
Burns, James L.	Heritage Technologies	Ross Laboratories
Burns, Robert A.	Hilker, Alice F.	Sather, Carl
Cage, Eleanor W.	Ji, Li Li	Shiue, Harn
Campos, June Adele	Johnson, Guy	Shuran, Melanie
Chapman-Novakofski, K.M.	Johnson&Johnson Family	Siedler, Arthur J.
Cho, Byung H. (Simon)	Kao, Race & L. Wei Liu	Siegel, Marcia Monaco
Clinton, Steven K.	Kelley, Keith	Singletary, Keith
Cooke, Paul S.	Kelloggs	Steinfelds, Peter
Correa-Matos, Nancy J.	Kitiphongspattana, K.	Stoll, Rodney M.
Czarnecki-Maulden, Gail	Kles, Keri	Swanson, Kelly S.
Czerkies (Milo), Laura	Kochanowski, Barbara	Tappenden, Kelly A.
Delgado-Reyes, Cassandra	Larson, Bruce L.	Tu, An-Yue
Deming, Denise M.	Leung, Henry K.	Tussing, Lisa
Deplancke, Bart	Leveille, Gilbert A.	Tzeng, Diana & Oliver
Donovan, Sharon M.	Lien, Eric L. (Wyeth	Waggoner, Mary S.
Drackley, James K.	Ayerst Labs)	Wallig, Matthew A.
Draper, Harold	Merritt, Russell	Wansink, Brian C.
Erdman, Jr., John W.	Merrill, Alfred	Weaver, Connie
Fahey, Jr., George C.	Miller, Catherine	Widlak, Neil R.
Fly, Alice D.	Mistry, Sorab P.	Zhang, Xiangfeng

THANKS TO THE NSEF CONTRIBUTORS!



Back row: Jessica Hartke, YeWon Cheon, Weisong He, Coryn Commare and Dave Albin.

Front row: Jill Gorski, Alejandra Gratson, Rebecca Wheatley and Kristin Stewart.

Spring 2001:

Dave Albin, Ph.D. candidate, B.S. in Animal Sciences, UIUC, 1998; M.S. in Animal Sciences, UIUC, 2000. Advised by Kelly Tappenden.

Jessica Hartke, Ph.D. candidate, B.S. in Animal Sciences and Chemistry, Southern Illinois University, 1998; M.S. in Animal Sciences, Southern Illinois University, 2000. Advised by Sharon Donovan.

Weisong He, M.S. candidate, B.S. in Chemistry, Beijing Normal University, Beijing, China, 1998. Advised by Manabu Nakamura.

Summer 2001:

Coryn Commare, M.S. candidate, B.S. in FSHN, UIUC, 2001. Advised by Kelly Tappenden.

Jill Gorski, M.S. candidate, B.S. in Animal Sciences, UIUC, 2000. Advised by Sharon Donovan.

Alejandra Gratson, Ph.D. candidate, B.S. in Food Chemistry, University of Munich, 1997. Advised by Tim Garrow.

Fall 2001:

YeWon Cheon, Ph.D. candidate, B.S. in Food and Nutrition, Seoul National University, 1998; M.S. in Food and Nutrition, Seoul National University, 2000. Advised by Manabu Nakamura.

Kristin Stewart, M.S. candidate, B.S. in Biology, UIUC, 1998. Advised by Elizabeth Jeffery.

Rebecca Wheatley, M.S. candidate, B.S. in Biology, UIUC. She will be co-advised by Mary Ann Lila Smith and John Erdman.



Sharon Donovan, Kelly Tappenden, Matt Wallig and Dave Baker at the New Student Reception, August 2001.

Ideal mentor: One who stresses integrity, first and foremost. One who will listen to, and consider viewpoints other than their own. One who is willing to test hypotheses, which may show that their pet idea is wrong. One who can, and will, readily admit when they are wrong. **Ideal student:** See above on ideal mentor. Then add, one who is willing to do the job right, no matter how long it takes. ---Robert Reynolds

CONGRATULATIONS GRADUATES!

August 2000

Carolyn Huntington, M.S. Advisor: Lee Beverly. Current Position: Ph.D. candidate, Dept. Animal Sciences, University of Missouri, Columbia, Missouri.

October 2000

Lulu Kurman, M.S. Advisor: Clare Hasler. Current Position: Product Development Specialist, Solgar Co., New Jersey.

Elizabeth Flickinger, Ph.D. Advisor: George Fahey. Current Position: Postdoctoral Fellow, Dept. Animal Sciences, UIUC, Urbana, Illinois.

January 2001

Evan Friedman, M.S. Advisor: Michael Murphy. Current Position: Seeking employment.

Kasey Heintz, M.S. Advisor: John Erdman. Current Position: Biologist, Dept. Neuroscience, NIH/NIDCD, Bethesda, Maryland.

Brandon Meline, M.S. Advisor: Keith Singletary. Current Position: WIC Nutritionist, Champaign-Urbana Public Health, Illinois.

Thomas Boileau, Ph.D. Advisor: John Erdman. Current Position: Postdoctoral Fellow, Dept. Human Nutrition and Food Management, Ohio State University, Columbus, Ohio.

Norman Millian, Ph.D. Advisor: Tim Garrow. Current Position: M.D. candidate, American University of the Caribbean School of Medicine, St. Martin, Netherland Antilles.

May 2001

Laura (Milo) Czerkies, M.S., R.D. Advisor: Kelly Tappenden. Current Position: Consultant, Clinical Nutrition Division, Nestle USA, Deerfield, Illinois.

Kristin (Reardon) Gustashaw, M.S., R.D. Advisor: Kelly Tappenden. Current Position: Clinical Dietitian at Rush Presbyterian-St. Luke's Medical Center, Chicago, Illinois.

Chaoshen Yuan, Ph.D. Advisor: Toshiro Nishida. Current Position: Postdoctoral Research Associate, Dept. Food Science and Human Nutrition, UIUC, Urbana, Illinois.

August 2001

Matthew Gardner, M.S. Advisor: Sharon Donovan. Current Position: M.D. candidate, Southern Illinois University, Carbondale, Illinois.

October 2001

Anna Keck, Ph.D. Advisor: Elizabeth Jeffery. Current Position: Postdoctoral Fellow, USDA Research Lab, Grand Forks, North Dakota.

<p>Ideal mentor: Supportive, high expectations, patient, compassionate, lead by example, ethical, good communication skills, open to criticism. Ideal student: Hard-working, ethical, open to criticism, takes initiative, creative, good communication skills, not afraid to ask questions.---Cassandra Delgado-Reyes</p>
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October 2001, continued

Anne Kurilich, Ph.D. Advisor: Barbara Klein. Current Position: Postdoctoral Research Physiologist, USDA Beltsville Human Nutrition Research Center, Beltsville, Maryland.

Chu Won Nho, Ph.D. Advisor: Elizabeth Jeffery. Current Position: Postdoctoral Fellow at the University of Pennsylvania, Philadelphia, Pennsylvania.

December 2001

Sandra Teixeira, Ph.D. Advisor: John Erdman. Current Position: Postdoctoral Research Associate at Hoffman-LaRoche, Basal, Switzerland.

Denise Deming, Ph.D. Advisor: John Erdman. Current Position: Scientific Leader, Roche, New Jersey.

Carl Sather, M.S. Advisor: Don Layman. Current Position: M.D. candidate, University of Illinois, Urbana, Illinois.



Db/db mouse used to study the effects of soy on diabetic renal disease in Dr. Erdman's lab.



Linda Barenthin was promoted to Administrative Secretary effective July 8, 2001. Linda has been at the University for 27 years and in the Division office since 1985. She has been married for 27 years; and her daughter, Jami, is a junior at the U of I majoring in advertising.



Ideal mentor: Patient, interested in and derives satisfaction from seeing others succeed, able to assist mentee in making connections with information, excited and enthusiastic about their work, approachable, well-connected within network of professionals. **Ideal student:** Comfortable with ambiguity, independent, but able to be a team player, self-motivated, self-starter, not afraid to make mistakes (somewhat of a risk-taker), naturally curious.---Catherine Peterson, Ph.D. 1994

2000-2001 FELLOWSHIP RECIPIENTS***Jonathan Baldwin Turner Fellowship***

Anne Bartholome
 Jessica Hartke
 Suzanne Pelletier
 Kelly Swanson
 Rebecca Wheatley

USDA National Needs Fellowship

An Chen
 Cassandra Delgado-Reyes

Value Added Fellowship

Catherine Miller

University Fellowship

Bart Deplancke, 99-00
 Evan Friedman, 99-00
 Kajorn Kitiphongspattana, 00-01
 Harn Shiue, 00-01

Graduate College Dissertation Completion Fellowship

Bart Deplancke

Toxicology Fellowship

Clint Allred

Praxis Fellowship

Sandra Teixeira

American Physiological Society Travel Award

Cassandra Delgado-Reyes
 Nancy Correa-Matos
 Keri Kles

College of ACES Graduate Student Research Award

Bart Deplancke

Society for Experimental Biology & Medicine Travel Grant

Bart Deplancke

2000-2001 MARGIN OF EXCELLENCE AWARDS***Travel Awards*****Fall 2000**

Anne Bartholome
 Jamie Baum
 An Chen
 Nancy Correa-Matos
 Denise Deming
 Kajorn Kitiphongspattana
 Keri Kles
 Carl Sather
 Harn Shiue
 Sandra Teixeira

Spring 2001

Clint Allred
 Bart Deplancke
 Chu Won Nho
 Kelly Swanson

Research Awards**Spring 2001**

Dave Albin
 Clint Allred
 Chris Atkinson
 Anne Bartholome
 Jamie Baum
 An Chen
 Nancy Correa-Matos
 Denise Deming
 Matthew Gardner
 Anna Keck
 Kajorn Kitiphongspattana
 Keri Kles
 Catherine Miller
 Chu Won Nho
 Harn Shiue
 Sandra Teixeira
 Chris Wharton
 Susan Zaripheh

Ideal mentor: Tough love. **Ideal student:** Focused, inquisitive, excited by their work. ---Elizabeth Jeffery

Anne Bartholome: Finalist in the American Society for Nutritional Sciences Procter and Gamble Graduate Research Award Competition, Experimental Biology, Orlando, FL, 2001. Recipient of the American Society for Nutritional Sciences Kraft Foods Inc., Predoctoral Fellowship. She passed her Ph.D. Qualifying Exam in September, 2001.

Lisa Tussing: Presentation: "Development of an Osteoporosis Prevention Program," Experimental Biology, Orlando, FL, 2001. She became a Registered Dietitian in February, 2001.

Keri A. Kles: Finalist in the American Society for Nutritional Sciences Procter and Gamble Graduate Research Award Competition, Experimental Biology, Orlando, FL, 2001. Invited to join Gamma Sigma Delta Honor Society. Recipient of the Harry M. Vars Award for Young Investigators, American Society for Parenteral and Enteral Nutrition, Chicago, IL, 2001. She passed her Ph.D. Preliminary Exam in June, 2001.



Kelly Tappenden, Stanley Dudrick (Vars' student), and Keri Kles at the Harry M. Vars Award Presentation.



Kelly Swanson: Presentation: "Effects of Mannanoglycosaccharides (MOS) and Fructooligosaccharides (FOS) on Immune Function and Fecal Odor Components in the Canine," presented at the Alltech, Inc. 3rd Annual Pet Nutrition Seminar, held in conjunction with the 17th Annual Feed Industry Symposium, Lexington, KY, April 8-11, 2001. Also, Kelly and his wife, Lisa, gave birth to a baby girl, Olivia Renee, on September 4, 2001, weighing 7 lbs, 9 oz and measuring 20 inches! He passed his Ph.D. Preliminary Exam in June, 2001.

Bart Deplancke: Poster Presentation: "Molecular Analysis of Mucolytic Bacteria and Their Activity in a Total Parenteral Nutrition (TPN) Piglet Model," International Symposium on Microbial Ecology, August 2001, Amsterdam, The Netherlands. Oral Presentations: "Effects of Hydrogen Sulfide (H₂S) on Cell Cycle Progression and Differentiation of Intestinal Epithelial Cells," EB 2001, Orlando, FL; "Musings on Mucins, Microbes, and Epithelial Barrier Function," The Institute for Animal Science and Health (ID-Lelystad), March 2001, Lelystad, The Netherlands.

Laura Bauer: received the College of ACES Academic Professional Award for Sustained Excellence.

Ideal mentor: Honest, good listener, offers advice, wants me to succeed/grow. **Ideal student:** Hardworking, eager to learn, dives in, not afraid to try new things, focused on a goal. ---Barbara Kochanowski, Ph.D. 1984

Nancy Correa-Matos: Finalist in the American Society of Clinical Nutrition Young Investigator Award Competition for abstract entitled "Fermentable Substrates Reduces Recovery Time and Improves Intestinal Function in Piglets Following *Salmonella* Infection," Experimental Biology, Orlando, FL, 2001.

Anna Keck: Awards: Victor A. Drill Award (1st), Society of Toxicology Midwest Regional Chapter Annual Meeting, May 2001. Victor A. Drill Award (2nd), Society of Toxicology Midwest Regional Chapter Annual Meeting, May 2000. Poster Presentations: "Differing Anticarcinogenic Effects of Sulforaphane Present in Broccoli than Purified Sulforaphane When Fed to Fisher 344 Rats," 10th Annual Functional Foods for Health Retreat, Chicago, IL; "A Comparison of Broccoli and Purified Sulforaphane as Dietary Inducers of Quinone Reductase in Fisher 344 Rats," Society of Toxicology Midwest Regional Chapter Annual Meeting, Lincolnshire, IL; "Urinary and Metabolic

Biomarkers for the Bioavailability and Bioactivity of Brussels Sprouts and Broccoli," National Society of Toxicology, San Francisco, CA. Oral Presentation: "Biomarkers for Anti-carcinogenic Properties of Cruciferous Vegetables," Grand Forks Human Nutrition Research Center, USDA, Grand Forks, ND. Anna was married on July 27th, the same week she defended her Ph.D.!



Cassandra Reyes: was married on December 30, 2000 to Angel Delgado of Laredo, TX (now Angel Delgado-Reyes).

Chris Atkinson: Poster Presentation: "Beta-Carotene 15, 15' Dioxygenase Observed in the Mongolian Gerbil," Experimental Biology Meeting, Orlando, FL, Functional Foods for Health Retreat, Chicago, IL, and at the J.A. Olsen Symposium, Ames, Iowa. Chris and her husband Mike are enjoying their daughter, Ellie's first year milestones.

An-Chian Chen: passed her Ph.D. Preliminary Exam in July, 2001.

Justine Olsen: Presentation: "Analysis of Cardiovascular Disease Nutrition Computer Modules Used by Third Year Medical Students," presented at Experimental Biology, Orlando, FL, 2001.



Dr. Tappenden & Dr. Donovan
with Nancy Correa-Matos.

Ideal mentor: For me, Dr. Willard J. Visek was an ideal mentor. He has an exceptionally broad background/experience and was able to integrate information from various disciplines leading to new concepts and ideas. He also provided the student with enormous opportunity to establish their own area of interest within Dr. Visek's large range of projects. Our laboratory meetings were dynamic and all members of the group were encouraged to participate in the debate and discussion. His program was an environment where a self-motivated student could excel, challenge the limits of their skills, and emerge as an outstanding scientist.---
Steve Clinton, Ph.D. 1978

Albin, D.M., and Tappenden, K.A. 2001. Advances in methods to evaluate gastrointestinal transport function. *Curr. Opin. Clin. Nutr. Metab. Care* 4:351-355.

Albin, D.M., Wubben, J.E., Smiricky, M.R. and Gabert, V.M. 2001. The effect of feed intake on ileal rate of passage and apparent amino acid digestibility determined with or without correction factors in pigs. *J. Anim. Sci.* 79:1250-1258.

Mavromichalis, I., Kerr, B.J., Parr, T.M., **Albin, D.M.**, Gabert, V.M. and Baker, D.H. 2001. Valine requirement of nursery pigs. *J. Anim. Sci.* 79:1223-1229.

Albin, D.M., Smiricky, M.R., Wubben, J.E., and Gabert, V.M. 2001. The effect of dietary level of soybean oil and palm oil on apparent ileal amino acid digestibility, and postprandial flow patterns of chromic oxide and amino acids, in pigs. *Can. J. Anim. Sci.* (in press).

Delgado-Reyes, C.V., Wallig, M.A., Garrow, T.A. Immunohistochemical detection of betaine homocysteine methyltransferase in pig, rat, and human kidney and livers. *Arch. Biochem. Biophys.* 393:184-6, 2001.

Deplancke, B., Gaskins, H.R. Microbial modulation of innate defense: goblet cells and the intestinal mucus layer. *Amer. J. Clin. Nutr.* (Invited review), 73:1131S-1141S, 2001.

De Boever, P., **Deplancke, B.**, Verstraete, W. Effects of soygerm powder on the gut microbiota as cultured in the simulator of the human intestinal microbial ecosystem. *J. Nutr.* 130:2599-2606, 2000.

Deplancke, B. Vidal, O., Ganessunker, D., Donovan, S.M., Mackie, R.I., Gaskins, H.R. Molecular analysis of mucolytic bacteria and their activity in a total parenteral nutrition (TPN) piglet model. *Amer. J. Clin. Nutr.* (submitted).

Keck, A., Jeffery, E. The cruciferous nitrile crambene has similar bioactivity to sulforaphane when administered to Fisher 344 rats but is far less potent in cell culture. *Nutr. Cancer* (submitted).

Kles, K.A., Wallig M.A., Tappenden K.A. Luminal nutrients exacerbate intestinal hypoxia in the hypoperfused jejunum. *JPEN* 25:246-53, 2001.

Kles, K.A., Turner J.R., Tappenden K.A. Enteral nutrients alter enterocyte function within an *in vitro* model similar to an acute rat model during hypoxia. *JPEN* (in press).

Kles, K.A., Tappenden K.A. Enteral nutrients differentially regulate nutrient transport within the rat jejunum during hypoxia. *Gastroenterology* (submitted).



Dave Albin, Ph.D. student in Kelly Tappenden's lab working on everted sleeve method to measure intestinal nutrient transport.

Ideal mentor: Besides yourself, the person that has your best professional and personal interests at heart at all times. **Ideal student:** Intelligent, conscientious, hard working, displays a good attitude, and personable.
---George Fahey

STUDENT PUBLICATIONS, CONTINUED

Pelletier, S. 2001. Effects of an educational program on intent to consume functional foods. *J. Amer. Diet. Assoc.* (submitted).

Swanson, K.S., Grieshop, C.M., Clapper, G.M., Shields, R.G., Jr., Belay, T., Merchen, N.R. and Fahey, G.C., Jr. 2001. Fruit and vegetable fiber fermentation by gut microflora from canines. *J. Anim. Sci.* 79:919-926.

Swanson, K.S., Flickinger, E.A., Grieshop, C.M. and Fahey, G.C., Jr. 2001. Prebiotics and probiotics: Definition, synergistic effects, and impact on nutritional and health status of companion animals. *Vet. Med.* (in press).

Swanson, K.S., C.M. Grieshop, E.A. Flickinger, L.L. Bauer, H.-P. Healy, K.A. Dawson, N.R. Merchen, and G.C. Fahey, Jr. 2001. Supplemental fructooligosaccharides (FOS) and mannanoligosaccharides (MOS) influence immune function, ileal and total tract nutrient digestibility, microbial populations, and concentrations of protein catabolites in the large bowel of the canine. *J. Nutr.* (submitted).

Swanson, K.S., and Fahey, G.C., Jr. 2001. New developments in the area of dietary fiber. In: *Nutrition in Complementary Care Newsletter: A Dietetic Practice Group of the American Dietetic Association.* (in press).



Student Kelly Swanson, and Post-doctorates Chris Grieshop and Beth Flickinger of Dr. George Fahey's lab distribute fiber sources to human study participants.

NUTRITIONAL SCIENCES FACULTY AWARD

On October 3rd, 2001 the Nutritional Sciences Graduate Student Association presented Dr. James Robinson with the NS Faculty Award. Faculty members are nominated by students based on the degree of involvement in student affairs and the Division. Students noted Dr. Robinson's recent involvement in the NS endowment fund, as well as his notorious final exam in NS 411 Nutritional Biochemistry Course. Dr. Robinson will be retiring in the spring and will be missed. Dr. Robinson stated that he is "looking forward to retiring on May 20, 2002." I expect to spend more time traveling, especially in the spring and fall, when others can't, visiting the grandchildren (5 at latest count) and relaxing at our cabin in the Rockies."



Motto for 411: Learning without thinking is useless.
Thinking without learning is dangerous.
- Confucius

Motto for NS Students: I survived 411.



Pictured to the left is *Nancy Correa-Matos* with children *Alejandro* and *Santiago*, *Susan Zaripheh* and *An Chen*, enjoying pizza. Pictured to the right is *Dr. Sharon Donovan* and *Dr. John Erdman* testing their skills on the bowling lanes.



Bowling Fun!

Nutritional Sciences faculty, students and their families gathered in September, 2001 for a bowling event. Scores ranged from 40 to 150, but all enjoyed bowling and pizza. Pictured to the left is *An Chen* and to the right is *Dr. Matt Wallig*.



NSGSA GARAGE SALE

In August, members of Nutritional Sciences donated excess goodies to the garage sale. Chair *Cassandra Delgado-Reyes*, co-chair, *Susan Zaripheh* and students, *Jessica Hartke*, *Anne Bartholome*, *Nancy Correa-Matos* and *An Chen* were some of the students that helped to organize the garage sale. *Jessica* and her husband *Ted* (above left) donated their garage for the event. The money raised by the garage sale was donated to the Nutritional Sciences Endowment Fund.



Ideal mentor: One who let's students try to solve problems that will advance the field. **Ideal student:** Hard working, imaginative. Do new things and do not join the thundering herd or the common flock.---Willard Visek

NUTRITION SYMPOSIUM 2001

The annual Nutrition Symposium which is organized by the NSGSA, took place in April 2001. The symposium allows students to showcase their research to their peers and faculty of the Division. In addition, three first place winners were selected from separate groups of posters; monetary awards were given to alleviate travel costs to meetings. Symposium sponsors of the event include the Dept. of Food Science and Human Nutrition, Dept. of Animal Sciences, and Functional Foods for Health. Corporate sponsors included Kraft Foods Inc., Mars Inc., Mead Johnson Nutritionals, Abbott Laboratories Ross Products Division, Wyeth Nutritionals International, and Elanco Animal Health and Eridania Berghin-Say.



The student selected keynote speaker, *Dale Romsos, Ph.D.* (left: shown with NSGSA chair *Cassandra Delgado-Reyes*) participated in the symposium by judging presentations and posters. In addition, Dr. Romsos gave a splendid seminar on "Human Obesity: How Do Genes Fit?"



Poster Winners: *NamJung Jung* (right) presented "Expression and characterization of a novel betaine-homocysteine methyltransferase (BHMT)-like cDNA reveals new structure-function relations in the BHMT molecule."



Eric Deszo (left) presented "CD45 negatively regulates monocytic cell differentiation by inhibiting PMA-dependent activation and tyrosine phosphorylation of PKC δ ."



Nate Matusheski (right) presented "Induction of quinone reductase *in vitro* by sulforaphane and sulforaphane nitrile."

Two groups of students participated in oral presentations where first and second place winners were chosen. First place oral presentation winner *Keri Kles* (not pictured) presented "Enteral nutrients differentially regulate nutrient transport within rat jejunum during hypoxia."



First place oral presentation winner, *Anne Bartholome* (left) presented "Glucagon-like peptide-2 upregulates SGLT-1 mRNA abundance in neonatal piglets."



Second place oral presentation winner *Jason O'Connor* (right) presented "Degradation and dephosphorylation: shutting off insulin signaling."



Second place oral presentation winner *Bart Deplancke* (left) presented "Effects of hydrogen sulfide (H_2S) on cell cycle progression and differentiation of intestinal epithelial cells."

Other student participants included *Dave Albin* (bottom-left) and *Denise Deming* (bottom-right along with faculty judges *Tim Garrow*, speaker *Dale Romsos* and *Rex Gaskins*). Many more students gave oral and poster presentations. In addition, faculty participated as judges and attended in support of the student-organized event.



December 2000

Paul Cooke, Ph.D.

Professor
Department of Veterinary Biosciences
College of Veterinary Medicine

Research Interests: Estrogen; estrogen receptors (ER); dietary isoflavones; development of reproductive, immune and adipose tissues. We found that the soy phytoestrogen genistein can cause as much



as a 80% decrease in thymic size and thymocyte number, and may impair immune function. We are investigating the mechanism of this effect and if similar effects occur in human infants fed soy formula. Other interests include the role of genistein in the regulation of adipose

development and function and the role of estrogen receptor alpha and beta and connective tissue in modulating the differentiation, morphogenesis and function of female reproductive organs.

December 2000

Manabu Nakamura, D.V.M., Ph.D.

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

Research Interests: Molecular mechanisms of obesity; metabolism and functions of essential fatty acids. The development of obesity is not a matter of simply overeating.



Our lab investigates the regulatory mechanisms understanding body fat deposition and the effect of dietary intervention on this process. In particular, we are interested in the mechanism underlying the development of insulin resistance, and its role in body fat deposition.

Another research focus of our lab is the transcriptional regulation of the synthesis/degradation of essential fatty acids that have a variety of physiological functions including eicosanoid formation, endocytosis/exocytosis, ion channel modulation, and control of gene expression. These two research areas partly overlap in our research elucidating the mechanism by which dietary essential fatty acids reduce adiposity.

Ideal mentor: Someone who is frugal with their time, but prioritizes and gets the important advice delivered.
Ideal student: Must be excited about learning, about discovery - not necessarily focused on acquisition of information "just to get a good grade". The best students in the lab are often not the 'top A' students, but instead, students willing to take a risk in order to enhance the learning process. The best students dig into the literature and probe. It may not be the most time efficient process, but in that way, the student can find ideas and new research directions that the advisor may have missed!---Mary Ann Lila Smith

December 2000

James Painter, Ph.D.

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

Research Interests: Nutrition education regarding health promotion and weight management. We are examining the effect of nutrition education via computer technology on nutrition knowledge, consumer perception of food, and dietary intake.



Studies in our lab are assessing the effect of nutrition labeling on consumption and perception of food. A recent area of interest relates to the impact of the new RDIs regarding the determination of nutrient status. We are comparing the U.S. food guides

to those from other countries and are evaluating the scientific evidence and theories for low carbohydrate diets. The effect of subjects maintaining food records and performing nutrition analysis on energy balance are being analyzed. Our group is also studying the effect of macro-nutrient content of the diet, satiety, and the glycemic index of carbohydrates on weight maintenance.

May 2001

Peter Reeds, Ph.D.

Faculty Excellence Professor
 Department of Animal Sciences
 College of Agricultural, Consumer and
 Environmental Sciences

Research Interests: Role of nutrition in the regulation of growth and organ function; amino acid metabolism; stable isotopic approaches. My main interests are on protein and much of my recent work has been concerned with intestinal metabolism.

In the future, my laboratory will be concentrating on gut protective function and the impact of secretory protein synthesis on amino acid bioavailability and intestinal development. I also collaborate with clinicians at Baylor College of Medicine in the study of inborn

errors of metabolism. My research program makes considerable use of stable isotopes, particularly novel uses of mass isotopomer distribution analysis to study protein turnover, amino acid and nucleic acid biosynthesis. Finally, I have a particular interest in the use of animal models, especially neonatal models, to investigate human nutritional problems.



Ideal mentor: Committed to excellence, committed to graduate student trainees; well funded; confident; well known and respected in field; productive in research; good at dealing with editorial boards; good at constructive criticism, but also affirming. **Ideal student:** Great attitude and drive, committed; work ethic; good poise, good writer and speaker; willing to work to perfect weaknesses and enhance strengths; intelligence; takes advice well. ---Dave Baker

David Baker: Member of the National Academy of Sciences Board on Agriculture and Natural Resources; Grants awarded: Micronutrients, Inc. "Tetrabasic Zinc Chloride - a New Source of Bioavailable Zinc"; Biokyowa, Inc. "Branched-Chain Amino Acid Nutrition of Swine and Poultry"; C-FAR, "Bioactivity of New (Cloned) Phytase Products."

J. Lee Beverly: Review panel member, National Institutes of Health, "Special Emphasis Panel, SST-1"; Received funding from the National Institutes of Health (NIDDK), "Glucose Metabolism of Noradrenergic Activity in VMH," 2000-2005.

Paul Cooke: Incomplete List of Teachers Ranked Excellent, University of Illinois, Spring, 2000 and Spring, 2001; Research Excellence Award, College of Veterinary Medicine, UIUC (Fall, 2000); Who's Who in America (2001); Editorial boards for Endocrinology, Domestic Animal Endocrinology and Journal of Endocrinology.

Alan Diamond: Co-chairman of the Medical Advisory Board to the Leukemia Research Foundation; UIC Life Sciences Panel (2001-2005), Selenium, Amino thiols and Radiation; American Institute for Cancer Research (2001-2003) Translational Regulation of Selenoprotein Biosynthesis; Campus Research Board, University of Illinois at Chicago, A Functional Screening Approach for Novel Selenoproteins; Susan G. Komen Breast Cancer Foundation (2001) Role of the 15kDa Selenoprotein in Breast Cancer.

Sharon Donovan: Continues to serve on several committees for the American Society for Nutritional Sciences (ASNS) including the Graduate Nutrition Education Committee (ended 6/01) and as Councilor (1999-02); Continues as a Regional Associate Editor for ASNS Nutrition Notes; Served as President of the Illinois Chapter of Gamma Sigma Delta for 2000-01; Co-organized the annual meeting of the Council of Food Science Administrators (CFSA) and the Association of Departments and Programs of Nutrition (ADPN) meeting held in Tucson, Arizona in January 2001; Promoted to Full Professor effective August 21, 2001; Continued as University Scholar at the University of Illinois (1998-2001); Received a grant from the USDA-NRI to study the "Impact of Mammary Over-Expression of IGF-I on Lactation and Piglet Intestine"; Received funding from the Illinois Council for Food and Agricultural Research (C-FAR) to investigate "Soybean Isoflavones as Modulators of Neonatal Intestinal Development." Her daughter Tory (5.5 years) and son Ian (2.5 years) continue to enchant their parents.

John Erdman: ASNS President; Vice chair of standing committee on the Scientific Evolution of Dietary Reference Intakes, Institute of Medicine, National Academy of Sciences.

George C. Fahey: Serves on the editorial board of Archives of Animal Nutrition; The National Research Council Subcommittee on the Nutrition of Dogs and Cats; The Food and Nutrition Board Panel on the Definition of Dietary Fiber; The scientific advisory boards of OmegaTech, Boulder, CO, International Ingredients Corporation, St. Louis, MO, GTC Nutrition, Golden, CO, and the Fats and Proteins Research Foundation, Bloomington, IL; The GRAS panel for chicory for Nestle, Glendale, CA; Chair of the Companion Animal Committee for the American Society of Animal Science; In 2000-2001 he received grants from Alltech, Inc., Kraft Foods, Jones-Hamilton Co., C-FAR, Nestle, Orafit, RiceX, Viskase, and Ross Products Division of Abbott Laboratories.

<p>Ideal mentor: One who spends one hour per month counseling with a student on their research project and preparing for the future. Ideal student: Hard working, eager to learn, seeks understanding, seeks a vision of the whole.---Larry Lawson, Ph.D. 1979</p>
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Tim Garrow: College of ACES Faculty Award for Teaching, 2001.

H. Rex Gaskins: Member, Special Emphasis Panel, Oral Microbiology/Immunology of Type 1 Diabetes, NIH National Institute of Dental and Craniofacial Research, 2001; United States Department of Agriculture Panel member, USDA National Research Initiative Competitive Grants Program, Animal Genome and Genetic Mechanisms, 2000; Editorial Board of Animal Biotechnology, The Journal of Nutrition, Experimental Biology and Medicine; Society for Experimental Biology and Medicine, Councilor & Chair-Publications Committee; He also bought a new quarter-horse named Boston, a 5-yr-old, beautiful bay gelding with a great attitude! Dusted boots, oiled saddle.

Clare Hasler: Editor, Functional Foods for Health Program ALERT; Editor, Functional Foods for Health News; Consulting Editor, Journal of Nutraceuticals, Functional and Medical Foods; Editorial Boards, Journal of Medicinal Food; Journal of the American Nutraceutical Association; Journal of Food Science, Food Chemistry and Toxicology Section; Ingredients, Health & Nutrition; Leatherhead Food RA Food Industry Journal. Experiment Station Committee on Organization and Policy/Academic Committee on Organization and Policy (ESCOPE/ACOP) Leadership Development Program; American Council on Science and Health (ACHS), Board of Scientific and Policy Advisors; 2000 American Dietetic Association, Recognition of Service Award; 2001 Nominated The Pennsylvania State University, Outstanding Nutrition Alumni Award; Illinois Soybean Checkoff Board, 2000-2001, "Effects of Soy Protein Consumption in African-American Women with Mild Hypercholesterolemia;" United States Department of Agriculture, 2000-2004, "Component Interactions for Efficacy of Functional Foods," outreach/education project director.

Aslam Hassan: Carl J. Norden Distinguished Teacher Award, April 2001.

Elizabeth Jeffery: Chair of the Toxicology Division of ASPET; chair of the Bioactive Components Research Interest Section (RIS) of ASNS; Secretary/Treasurer of the Food Safety specialty section of SOT; involved in grant reviews for both NIH and USDA. Received USDA/NRI grant on Maximizing Health Benefits of Broccoli; USDA/IFAFS program director for multiple projects on component interactions for efficacy of functional foods; NIH co-PI with Janice Bahr on soybeans and reproduction; USDA Training Grant in Functional Foods.

Rodney Johnson: BioServ Award, American Society for Nutritional Sciences, 2001; NPPC Innovation Award Basic Research Category, 2001.

Robert D. Reynolds: 2001 Excalibur Award for Teaching Excellence, awarded by the Student Council of the College of Health and Human Development Sciences, UIC.

Jim Painter: Editorial Board for Foodservice Research International, Michigan State University, MI; Funding Awards: Web Development for the Functional Food and Nutrition Analysis Web Sites, CFAR, 2000-2001; Glycemic Response of Energy Bars, Kraft Corporation, 2000; Adults Need Protein to Manage Blood Glucose and Body Weight, Warner Lambert, 2000; Wine Appreciation Teaching Enhancement, 2000-2001.



Nancy Correa-Matos, Jessica Hartke and Kathy Buetow from Dr. Donovan's lab run Ussing Chamber analysis in Dr. Tappenden's lab.

<p>Ideal student: Inquisitive and hardworking. ---Jim Robinson</p>

James L. Robinson: We have determined the molecular basis for an inherited deficiency of Factor XI which causes a bleeding disorder in Holstein cattle. The mutation is unusual in that it consists of a 76-base insertion into one of the exons of the gene for the enzyme. While the insertion contains long strings of adenine bases, it also codes for a premature "stop" signal that prevents a full-length, fully active protein from being made. As a result, normal blood clotting is compromised in animals with this mutated gene.

Keith Singletary: Appointed Director of Functional Foods for Health Program at UIC/UIUC in March, 2001. Invited talk: Department of Nutrition and Food Science, University of Maryland, Cancer Chemoprevention by Grape Constituents, May, 2001.

Kelly Tappenden: Co-advisor of American Society for Nutritional Sciences Student Research Interest Section, 2002; Chair of American Society for Parenteral and Enteral Nutrition Blue Ribbon Task Force on Research, 2001-2002; University of Illinois Institutional Animal Care and Use Committee, 2000-2003; Danville Veterans Affairs Institutional Review Board, 2000-2001; Department of Food Science and Human Nutrition Outstanding Faculty Award, 2001; Received NIH RO1 Short-Chain Fatty Acid Enhanced Intestinal Adaptation.

Mary Ann Lila Smith: President, Society for *In Vitro* Biology, June 2000 (2 year term); Paul A Funk Recognition Award, April 2001; Interim Head, Department of Natural Resources & Environmental Sciences, University of Illinois, 2001-present. Grants Received: Biological Activity of Natural Proanthocyanidin Mixtures, National Center for Complementary and Alternative Medicine, National Institutes of Health; Weaver, C.M. (PI and Center Director) with 24 other investigators from Purdue, University of Illinois, Indiana University, University of Alabama, Rutgers, University of Kansas, Bioanalytical Systems, Mead Johnson Nutritionals, Central Soya Co., and University of Washington, 2000. Botanical Center for Age-Related Diseases. OD-00-004 Centers for Dietary Supplements Research: Botanicals. Botanical Center for Age-Related Diseases. Dept. Health and Human Services. Public Health Service; *In vitro* growth and production of kava (*Piper methysticum*). UIC/NIH Center for Botanical Dietary Supplements Research Seed Grant Program; Component Interactions for Efficacy of Functional Foods, IFAFS grant application for Functional Foods Funds; Potentially Profitable Antioxidants from Black Soybean Lines, IMBA 2000 Enhanced Profitability Program.



Kelly Tappenden and John Pluske, visiting researcher from Murdoch University, Australia, work on an intestinal resection piglet model to test short-chain fatty acids effect on intestinal adaptation.

Willard Visek: Continues his role on the editorial board of *Physiological Reviews* and he lectures to medical students. He has been married 51 years and has no new grandchildren to report.

Ideal student: A life long learner who is energetic, curious, focused, a team player, who is willing to push the boundaries of knowledge.---John Erdman

David H. Baker: "Pitfalls in Nutrient Bioavailability Assessment," at the Western Nutrition Conference, Winnipeg, Manitoba; "Ideal Amino Acid Profiles," at the Fermex Amino Acid Conference, Mexico City.

J. Lee Beverly: "Influence of Obesity on Hypothalamic Mechanism of Glucose Homeostasis," at Entelos, Inc., Menlo Park, CA; "Dietary Protein and Cognition: Can Amino Acids Influence Memory?" at the Dept. of Nutrition, University of California, Davis, CA.

Alan Diamond: Gave invited talks at the 7th International Symposium on Selenium in Biology and Medicine, Venice, Italy and the Kolloquium of the DFG Special Research Programme Selenoproteins, Wuerzburg, Germany.

Sharon Donovan: "Meeting the Challenges of Graduate Nutrition Education" at the Department Heads Breakfast at Experimental Biology, 2001.

John Erdman: Invited presentations at the Gordon Conference on Carotenoids; Experimental Biology; The American Oil Chemistry Society; the Symposium on Functions and Actions of Retinoids and Carotenoids; Building on the Vision of James Allen Olsen; University of Missouri; The American Heart Association; and the Oxygen Society.

George C. Fahey: "Animal Byproducts as Components of Pet Diets," at the Fats and Proteins Research Foundation, Chicago, IL; "Prebiotics: Gut Flora and Function and Their Role in Disease Management," at the 2001 Texas Dietetics Annual Conference, Houston, TX; "Petfood and Feed Applications of Prebiotics," at the 3rd Orafti Research Conference, London, England; "Canine Nutrition Update," at Friskies, St. Joseph, MO; and "Fructans in Animal Nutrition," at the University of Wageningen, The Netherlands.

Tim Garrow: "Redox Regulation of Betaine-homocysteine Methyltransferase Activity," at the 3rd International Symposium on Homocysteine Metabolism, Sorrento, Italy.

Clare Hasler: "Research Update: Soy in Chronic Disease Prevention," Keynote Address at Soyfoods Meeting, Chicago, IL; "The Global Phenomenon of Functional Foods," at PepsiCo 2001 Top-to-Top Meeting, September, Florence, Italy; "Functional Foods in Cancer Chemoprevention: Fantasy or Reality?" at Penn State College of Medicine, Current Issues in Nutrition and Cancer Prevention Meeting, Hershey, PA; "Functional Foods: Impact on Health and Society," at the National Research Council Public Workshop on Opportunities in Agriculture, Washington D.C.; "Functional Foods: Then, Now, and the Future," Keynote Address, at the Functional Foods—Where Academy and Market Meet (1st annual Conference of the Swedish Center of Excellence and Innovation in Functional Foods), Gotteborg, Sweden; "Functional Foods Now: Current Science," at the American Overseas Dietetic Association, Alicante, Spain; "Botanicals: Scientific, Regulatory & Market Update," at the IFT Continuing Education Program, Functional Foods: The Hottest Topic in Food Science and Health, Orlando, Florida; and "Functional Foods: Consumer, Regulatory, Market and Research Update," at the St. Louis Section, IFT, St. Louis, MO; "Soybeans—A Global Trend: From Traditional to Functional Food," at the Soy and Health Symposium 2000, Manila, Philippines; "Soy as a Functional Food for Heart Health," at the New Zealand Nutrition Foundation, Auckland, New Zealand; "Sterol/Stanol Esters: The Newest FDA Approved Health Claim," at the Joint Conference of NZIFST and Ag Research-MIRINZ, Auckland, New Zealand; and "U.S. Soy Health Claim: Research and Regulatory Development," at the South East Asia Soyfood Symposium 2000, Bangkok, Thailand.

Elizabeth Jeffery: "Component Interactions Within Broccoli," at the First International Symposium on Food Synergy, Washington, D.C.

H. Rex Gaskins: "Host-Microbe Interactions at the Intestinal Epithelium," at the 51st Annual meeting of the European Association for Animal Production, The Hague, The Netherlands; "Probiotics and the Immune System," at the Center for Food Safety & Applied Nutrition, Food and Drug Administration, Washington, D.C.; "Ecology and Intestinal Pathology of Sulfate-Reducing Bacteria," at the Department of Microbiology, University of Virginia School of Medicine, Charlottesville, VA; "Musings on Mucins, Microbes, and Intestinal Barrier Function," at the Danish Veterinary Laboratory, Copenhagen, Denmark; "Ecology and Intestinal Pathology of Sulfate-Reducing Bacteria," for the Faculteit Landbouwkundige en Toegepaste Biologische Wetenschappen, University of Ghent, Belgium; "On the Contributions of Mucolysis to Clostridium Perfringens Pathogenesis," at the Workshop on Clostridium Perfringens and Necrotic Enteritis, ID TNO Animal Nutrition, Lelystad, The Netherlands.

Jim Painter: "The Nutrition Analysis Tool," at the USDA National Databank Conference, St. Paul, MN; "A Survey of Nutrition Education Programs on the Web: Comparing Animation vs Text Only Applications," at the International Conference on Advances in Infrastructure for Electronic Business, Science, and Education on the Internet, L'Aquila, Italy. Presentation for M.S. Swaminathan and Timothy Reeves on "Using the Internet for Extension in Developing Countries," at the Center for Advanced Study, Champaign, IL.

James L. Robinson: I attended the Third International Congress on the Yak in Lhasa, Tibet, China, in September, 2000 and chaired a session on yak nutrition. My wife, Jan, and I, tasted yak yogurt, yak butter tea and yak meat. We visited a couple yak breeding stations, which afforded us the opportunity to spend two days in the countryside. We also checked out some of the religious sites, including the Potala Palace, where the Dalai Lama ruled. It was fascinating to be on the roof of the world and to drive over passes higher than the peaks of mountains in the Colorado Rockies, one of which, Long's Peak, we had climbed a month before. While in China, we visited Chengdu, where I gave an invited talk at the Southwest Nationalities College.

Mary Ann Lila Smith: "Bioactive Properties of Flavonoids from Berry Fruits," at the Department of Human Nutrition and Dietetics, University of Illinois, Chicago; "A Mechanistic *In Vitro* Probe into Medicinal Chemical Synthesis in Three Herbal Plants," at the New Zealand Branch International Association of Plant Tissue Culture and Biotechnology, Mt. Ruapehu, New Zealand; "Soybeans and Human Health: The Scientific Evidence," at the India Soy Forum, Indore, India; "Challenges for Evaluation of Polyphenolic Extracts," at the ASNS PhenHRIG (Plant Phenolics and Health Research Interest Group), Experimental Biology Meetings, Orlando, FL; "Phytochemical Berries," at the Oldways Conference - Antioxidant Initiative, Lake Tahoe, CA.

Kelly A. Tappenden: "Short-Chain Fatty Acids: They're Not Just About the Colon", at Purdue University; "Working in Academia," in the Life After Graduate School: The Big 3 (Government, Industry, Academia) Symposium at Experimental Biology, Orlando, FL; "Nutritional Regulation of Nutrient Transport," at the University of Florida, Nutritional Sciences Seminar, Gainesville, FL.

Ideal mentor: One who nurtures the strengths of a student, works with the student to develop an action plan to overcome weaknesses, and recognizes both these characteristics in themselves. **Ideal student:** One who is willing to accept their ignorance and have the ambition to learn.---Tia Rains, Ph.D. 1998



On May 29-31, 2001, Joanne R. Lupton, Ph.D., presented a lecture series on colon cancer and dietary fiber. Dr. Lupton is a Regents Professor and University Faculty Fellow and William W. Allen Endowed Chair in Human Nutrition at Texas A&M University. Dr. Lupton is an internationally recognized nutrition researcher, noted for her work in the effects of dietary fiber on gastrointestinal health. She has served on the Nutrition Study Section of NIH and is currently on the Food Forum Committee of the Food and Nutrition Board, National Academy of Sciences, and the DRI macronutrient panel. She chaired the committee which recently determined a definition of dietary fiber.

During her stay at the University of Illinois, she presented three lectures entitled:

- "Dietary Fiber: What is it and what are its effects on the upper and lower gastrointestinal tract?";
- "Is fiber protective against colon cancer? It depends..."; and,
- "Mechanisms by which a combination of fat and fiber initiate apoptosis-targeted to DNA damaged cells."

DAVID H. BAKER SYMPOSIUM

On October 13, 2001, the Division of Nutritional Sciences and the Department of Animal Sciences organized a Symposium and Banquet to recognize and celebrate the illustrious career of David H. Baker. He is well known to alumni and friends of the Division of Nutritional Sciences, in which he has been active since its inception. He is renowned for his contributions to comparative nutrition, particularly nitrogen utilization, mineral availability and vitamin requirements. The symposium came 40 years after he first enrolled as a graduate student in the Department of Animal Sciences, 34 years since he joined the UIUC faculty and 2 years since he officially retired. He has authored over 400 peer-reviewed articles and over 30 book chapters. It was only fitting that he should be honored in this way.

The Symposium featured the following presentations by colleagues and former students of Dr. Baker, specifically:

- "Functional Foods: The Conjugated Linoleic Acid Story." **Dale E. Bauman** (UIUC Dairy Science PhD 1969; faculty member in Dairy Science and Nutritional Sciences, 1969-79). Currently, Liberty Hyde Bailey Professor, Dept Animal Sciences, Cornell University, Ithaca, NY.
- "Special Fatty Acids in Adult and Infant Nutrition." **Pamela A. Anderson** (UIUC Nutritional Sciences PhD 1979). Currently, Director, Regulatory Affairs, Ross Products Division, Abbott Laboratories, Columbus, OH.
- "Liquid Diets for Young Pigs: A Solution for Post-Weaning Morbidity." **Jack Odle** (UIUC faculty member in Animal Sciences and Nutritional Sciences, 1989-95). Currently, Professor, Dept Animal Sciences, North Carolina State University, Raleigh, NC.
- "Amino Acid Metabolism in Pets." **Gail L. Czarnecki-Maulden** (UIUC Animal Sciences PhD 1984; faculty member in Animal Sciences and Nutritional Sciences, 1984-90). Currently, Senior Research Nutritionist, Friskies Research & Development, St. Joseph, MO.

DAVID H. BAKER SYMPOSIUM, CONTINUED

- "Phase Feeding: A Model for Reducing Broiler Production Costs." **Jason L. Emmert** (UIUC Nutritional Sciences PhD 1997). Currently, Assistant Professor, Dept Poultry Science, University of Arkansas, Fayetteville, AR.
- "Designing More Environmentally Friendly Swine Diets." **Gary L. Allee** (UIUC Nutritional Sciences PhD 1970). Currently, Professor, Dept Animal Sciences, University of Missouri, Columbia, MO.
- "Recent Observations on Lysine Metabolism in Rats and Pigs." **N.J. Benevenga** (Long-time friend of David H. Baker; they earned their PhD degrees in the same year). Currently, Professor, Dept Animal Sciences and Nutritional Sciences, University of Wisconsin, Madison, WI.

The accompanying banquet was an occasion to toast and roast Dr. Baker. Professor Erdman was the MC for the evening; participating were David Chicoine, Vice-President of the University of Illinois (and former Dean of ACES), Chris Peter (representing former students), Arthur Siedler (representing the fishing buddies), and Roger Baker (representing the family). Dr. Baker's 3rd and 4th grade teacher, Mrs. Bernice Kitner Kirkus, and his high school vo-ag teacher, Mr. Robert Edwards were also present. Two endowments were announced; the first will support the David H. and Norraine A. Baker Graduate Fellowship in Animal Sciences, while the second, the David H. Baker Nutrition Scholar Award, will be made annually to an outstanding student in Nutritional Sciences. These endowments were made possible by contributions from the Baker's, his former students, friends and colleagues, as well as, corporations. Contributions can continue to be made to enhance the endowments supporting the fellowship and the award.

The Symposium and Banquet were attended by over 250 former students, colleagues, friends and family of David H. Baker. Twenty-one of his 36 PhD students were present. Corporate sponsors of the event included BioKyowa, ExSeed Genetics, Ross Products, Zinpro, Degussa, United Feeds, Aventis Animal Nutrition, IMC Global, International Ingredients, Nutrition 101 and Southeastern Minerals. The Symposium and Banquet was planned by a committee consisting of Robinson (chair), Erdman, Parsons, Visek, and Linda Barenthin.



Symposium Speakers: Dale Bauman, N.J. Benevenga, Pamela Anderson, Gary L. Allee, Dave Baker, Jack Odle, Gail L. Czarnecki-Maulden, and Jason Emmert.

Ideal mentor: Someone who has time, but doesn't spoon feed you information—Its better to learn on your own. **Ideal student:** Someone who works hard, but doesn't take life too seriously.---Guy Johnson, Ph.D. 1976

Paul Cooke, DVM, PhD, Professor, Dept Veterinary Biosciences, UIUC. "**Estrogen receptor alpha effects on adipose tissue development in male and female mice**"

John Erdman, PhD, Professor, Dept Food Science & Human Nutrition, UIUC. "**Tomatoes, lycopene, and prostate cancer**"

John Finley, PhD, Supervisor Research Chemist, USDA, Grand Forks, ND. "**Selenium in beef, wheat and broccoli: Health benefit or toxin?**"

External Advisory Committee/Graduate Student Forum, Dr. Kelly Tappenden, Moderator.

Jim Painter, PhD, Assistant Professor, Dept Food Science & Human Nutrition, UIUC. "**Nutrition education: Effects on attitudes towards and perceptions of soy-products in an elderly population**"

Janet Glaser, PhD, Associate Vice Chancellor for Research, UIUC. "**The ethics of human subject research**"

Gary Gibson, PhD, Dept Neurology and Neuroscience, Cornell University, Burke Medical Research Institute, White Plains, NY. "**Oxidative processes and signal transduction in Alzheimer's Disease (Insights from brains, peripheral cells and animal models)**"

Eugene Chang, MD, Martin Boyer Professor of Medicine, Associate Director for Academic Programs and Training in Gastroenterology, Director, Inflammatory Bowel Disease Center, Gastroenterology Section, Dept Medicine, University of Chicago, "**Nutritional protection of gut function and integrity: Factor or fancy?**"

Manabu Nakamura, PhD, Assistant Professor, Dept Food Science & Human Nutrition, UIUC. "**Mechanism of regulation of fatty acid synthase gene transcription by dietary polyunsaturated fatty acids**"

Tammy Bray, PhD, Professor, Dept Human Nutrition & Food Management, Ohio State University, Columbus, OH. "**Antioxidants, NFkB and diabetes**"

Fred Provenza, PhD, Dept Rangeland Resources, Utah State University, Logan, UT. "**Application of behavioral principles, pertinent to food selection, to the management of ecological systems**"

Norm Millian, Graduate Student, "**Recombinant human betaine-homocysteine S-methyltransferase: discovery as a zinc metalloenzyme and the potential for regulating its activity by redox status**"

William D. O'Brien, PhD, Professor, Dept Electrical and Computer Engineering and Dept Bioengineering; Director, Bioacoustics Research Laboratory, UIUC. "**Detection of very-small-diameter channel defects in food package seals**"

<p>Ideal mentor: Caring, informative, educator. Ideal student: Hard working, open-minded.---Jason Emmert, Ph.D. 1994</p>
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Research Briefs by Nutritional Sciences Graduate Students. Clint Allred, PhD Candidate. **"Components of soy and the growth of estrogen-dependent breast cancer;"** Keri Kles, PhD Candidate. **"Enteral nutrients alter enterocyte function within an in vitro model during hypoxia similar to acute in vivo rat model"**

Robin A. Orr, PhD, Extension Specialist/EFNEP/FNP, Cooperative Extension, UIUC. **"Farmer's markets to prisons to food depositories: Extension Nutrition Programs in Chicago"**

Phyllis Bowen, PhD, Associate Professor, Dept Human Nutrition and Dietetics, UIC. **"Tomato sauce supplementation in men with prostate cancer"**

Bryan White, PhD, Professor, Dept Animal Sciences, UIUC. **"Genomic and ecological analysis of microbes in the gastrointestinal tracts of food animals"**

Ruth, Harris, PhD, Dept Food and Nutrition, University of Georgia, Athens. **"Circulating factors in obesity: Is leptin the answer?"**

Martha Stipanuk, PhD, Professor, Division of Nutritional Sciences, Cornell University, Ithaca, NY. **"Nutritional regulation of cysteine dioxygenase: A robust system for control of cellular cysteine concentration"**

Chu Won Nho, Nutritional Sciences Graduate Student. **"Regulation of detoxification enzymes by bioactive components from cruciferous vegetables"**

Peter Reeds, PhD, Professor, Dept Animal Sciences, UIUC. **"The gut and amino acid nutrition: Is it really that selfish?"**

Anna Keck, Nutritional Sciences Graduate Student. **"Determination of relative cancer preventative effects of cruciferous vegetables"**

Dale Romsos, PhD, Professor, Dept Food Science and Human Nutrition, Michigan State University, East Lansing. **"Human Obesity: How do Genes Fit?"**

Anne Kurilich, Nutritional Sciences Graduate Student. **"Flavor characterization and antioxidant potential of a genetically segregating population of broccoli"**

Eric Rimm, Sc.D., Associate Professor, Dept Nutrition, Harvard School of Public Health, Boston, MA. **"Vitamin E and coronary heart disease"**

Sandra Teixeira, Nutritional Sciences Graduate Student. **"Effects of soy protein feeding on the onset and progression of diabetic nephropathy"**

<p>Ideal mentor: Friendly, patient, but tough in quality education. Ideal student: Active attention in class and similar discussion, organized additional related materials to the lecture notes. Make sure that "real learning" rather than "grade" is important, when one can really learn, the grade should come naturally.---Diana Tzeng, Ph.D. 1974</p>
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2001

Tom Boileau Ph.D., received a post-doctoral fellowship from the Department of Defense Prostate Cancer Research Program, entitled "Antioxidant Therapy for Men with Asymptomatic Prostate Cancer." Tom is conducting postdoctoral research with Dr. Steve Clinton and Dr. Tammy Bray at OSU.

1999

Yoo Kyoung Park Ph.D., is now an Instructor at Hannam University and Choongnam National University. Her triplets, June, Jeanne, and Jason are about 1.5 years old (see below).

Amy Boileau Ph.D., and **Tom Boileau** Ph.D. (2001), bought their first house in Ohio.

Sean Barnes Ph.D., is completing his M.D. and will begin a Residency in Anatomic Pathology in the Department of Laboratory Medicine and Pathology on March 1, 2002. He will be working with several hospitals affiliated with the University of Minnesota and at Fairview-University Medical Center. Eventually, he plans to pursue a GI pathology fellowship.

1998

Josh Anthony M.S., completed his Ph.D. from Penn State College of Medicine and was awarded an American Physiological Society/Procter & Gamble Professional Opportunity Award. He has accepted a position as Senior Nutrition Scientist at Mead Johnson Nutritionals in Evansville, IN.

Tracy Gautsch Anthony Ph.D., gave birth to daughter Alexandra Katharine on October 21, 2000. She started a tenure-track position at Indiana University this fall.



1999 Alumni, **Yoo Kyoung Park** in a recent family picture. Her husband, Yun, and triplets, June, Jeanne, and Jason keep her very busy.

1997

Jason Emmert Ph.D., received the Gamma Sigma Delta (Arkansas Chapter) Teaching Award, spring 2001. He is Associate Editor of the Journal of Poultry Science. He has two children: 3-year-old Abigail and 1-year-old Nathan.

1996

Jill Cline Ph.D., is a Senior Nutritionist at Nestle.

1995

Aparna (Reddy) Waegner M.S., is a policy specialist in child nutrition programs.

Carrie Earthman Ph.D., R.D., is chair of the By-Laws Committee of the Virginia Dietetic Association and is a member of multiple associations. She received the Research Dietitians Practice Group 2000 Published Paper Award. She was a finalist for the ILSI North America Future Leaders Award, 2001. Also, her daughter Bronwyn is 2.5 years old.

1994

Minnie Holmes-McNary Ph.D., has completed postdoctoral training at the Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill. She began a tenure-track faculty position in the Dept. of Human Nutrition at Ohio State University this fall.

Greg Paul Ph.D., Director of Nutrition Science at Central Soya Company Inc., served on two advisory boards 1) NIH-sponsored botanicals for age-related diseases at Purdue University, and; 2) Nutrition in Medicine education series distributed by the University of North Carolina.

Catherine Peterson Ph.D., gave birth to a daughter, Christian Elizabeth Peterson Fenton on July 11, 2001.

1993

Yolanda Goode M.S., is a member of the National Association of Extension 4-H Agents and is single, but looking.

1992

Stacy Scardefield M.S., R.D., was married to Steven V. Burke on November 22, 2001.

1991

Alyce Fly Ph.D., is currently working on a grant for the Indiana State Department of Health. Also, she was recently appointed Associate Dean of Program Administration for a three year term.

1988

Melissa Meredith M.D., M.S., is an Associate Professor of Medicine at the University of Wisconsin, and Director of the Clinical Diabetes Center.

1986

Anne Smith Ph.D., reports that her daughter who was born during her graduate program at U of I will be a freshman at Ohio State University.

1984

Barbara Kochanowski Ph.D., and **Kenneth Poirier** Ph.D., (1983) have a 7 year-old daughter, Leann. Barbara joined the Division External Advisory Committee in 2001.

1982

Gilbert A. Boissonneault Ph.D., completed a Physician Assistant program and continues on the faculty at the University of Kentucky.

1981

Lisa Marshall Ph.D., is a board member of both International Association of Inflammation Societies and Inflammation Research Association (former president).

1980

John E. Bauer D.V.M., Ph.D., is holder of the Mark L. Morris Professorship in Clinical Nutrition at Texas A&M University.

1979

Larry Lawson Ph.D., reports that he has been married 28 years to Carol Poli and has six great children.

1976

Guy Johnson Ph.D., is Trustee of the American Dietetic Association Foundation and was invited to speak at the U of I Functional Foods for Health Meeting. His company is called Johnson Nutrition Solutions. He is happily married with two great children, Tess and Adel.

1974

Diana Tzeng Ph.D., is a consultant and operator of the Fourth Dimensional Resolution Strategies. She is married to Dr. Oliver Tzeng. Her son, Bertromel, daughter, Sophia and husband, Oliver are all practicing attorneys. Both of her children were born at Carle in Champaign-Urbana.

1970

Robert E. Landers Ph.D., currently is enjoying retirement with five grandchildren in Grand Manan Island, New Brunswick, Canada. He is currently collecting sea survival stories and the role nutrition plays in a life at sea.



1994 Alumni, **Jason Emmert**, "Danny", along with fellow faculty and students at the University of Arkansas Poultry Science department, participated in a BBQ and theme contest at the Poultry Festival in Hot Springs, AR.

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GET CONNECTED TO ALUMNI, FACULTY AND STUDENTS

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Ideal mentor: A role model—organized, systematic, thorough, motivated, scientific integrity, active listener and empathetic. **Ideal student:** Passionate regarding work, high ideals, an eye for detail, critical thinking skills, scientific curiosity, accept challenges, patience, perseverance and resourceful.---Mary Jacob, Ph.D. 1969

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PHOTO GALLERY FROM EB 2001!



Harn Shiue, Kelly Swanson, Bart Deplancke, Catherine Miller get together for a picture at the EB U of I Mixer.



Alumni at the U of I Mixer: Greg Sunvold, Marcia Monaco, and Minnie McNary.



Carl Sather presents his poster at Experimental Biology, Orlando, FL 2001 "Reduced carbohydrate/protein ratio enhances metabolic changes associated with weight loss diet."



Kenneth Poirier, Sandra Bartholmey, John Erdman, Debbie O'Connor and Barbara Kochanowski and daughter, Leann at the U of I Mixer, Orlando, FL.

PHOTO GALLERY FROM EB 2001!



Pictured (left to right) An-Chian Chen, Catherine Miller, Sara Palkon, Laura (Milo) Czerkies, Nancy Correa-Matos, Marcia Monaco, Keri Kles, and Anne Bartholome following the ASNS Awards Ceremony.



Denise Deming, Sandra Teixeira, Vickie Jarrell and Chris Wharton at the University of Illinois Mixer.



Karen Chapman-Novakofski, Greg Paul and son Christopher, Sharon Donovan, Jan Novakofski gather at the University of Illinois Mixer.



Beth Flickinger, Nate Matusheski, Chris and Ellie Atkinson, Mike Atkinson, Clint Allred and Kelly Swanson at the U of I Mixer.



Harn Shiue, Catherine Miller, Carl Sather at the Peabody Hotel where a portion of the Experimental Biology Meeting was held.



Laura (Milo) Czerkies, Sara Palkon, Carmen Castro.

The Division web site has a new address (www.nutrsci.uiuc.edu) and has been completely redesigned! Our primary goal is to provide up-to-date and easily accessible information for potential applicants, alumni, students and faculty. Please drop by and check out the new format. Don't forget to set a bookmark so that you can visit from time to time as we add new information!

The site is divided into 5 major sections: About the Division of Nutritional Sciences; Applications and Admissions; Courses and Seminars; Degree Requirements; Faculty Research Interests; Graduate Programs of Study; and Graduate Students and Alumni. We will soon be adding a section on the Nutritional Sciences Endowment Fund that will update you on our progress and will allow for direct on-line contributions via the University of Illinois Foundation web site.

To provide better focus and structure to our research programs, we have developed six research theme areas within the Division of Nutritional Sciences: Animal Nutrition; Biochemical and Molecular Nutrition; Community Nutrition, Nutrition Education and Consumer Acceptability; Dietary Bioactive Components; Food Safety and Toxicology; and Human and Clinical Nutrition. Faculty research interests are also further characterized by Nutrient, Physiological or Disease State, Species or Cell Culture Model, or Organ System.

Alumni - Please visit the Alumni Career Placement section under the Graduate Students and Alumni section and make sure that your information is up-to-date. If not, simply click on the "Contact Us" link at the bottom of the page and e-mail us your updated information. In the future, we will post an Alumni Outcomes Assessment form that we will be asking you to complete and submit on-line. This information will be used to assist us in program evaluation and improvement assessment that is required by campus. We would like alumni to complete the form at 2 and 5 years and then at 5 year increments, however, alumni will be welcome to complete the questionnaire at any time.

Potential Employers - If you are looking for employees with specific skills or research expertise, check out the research interests of our current students under the Graduate Students and Alumni section.

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



NEW WEB AND EMAIL ADDRESSES

<http://www.nutrsci.uiuc.edu>

nutrsci@uiuc.edu

Ideal mentor: Someone who is supportive, enthusiastic, funded, driven, empathetic, demanding. **Ideal student:** A thirst for science, smart, curious, persistent.---Paul Cooke

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