



# Nutritional Sciences News

Division of Nutritional Sciences University of Illinois at Urbana-Champaign

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## A Word from the Editor

It is our pleasure to bring you this year's edition of *Nutritional Sciences News*. The past year was exciting and hopefully a harbinger of continued good fortune for the Division of Nutritional Sciences.

For a first-time editor, the task of assembling this newsletter would not have been as easy if it weren't for the many responses from the alumni, faculty and students and of course, Linda. Thanks.

Sincerely,

Brent D. Flickinger

## A Word from the New Director

My column in last year's newsletter indicated that a national search for a new Director of the Division was eminent. We carried out the search, received great interest in the position and interviewed several candidates of national renown.

I am pleased and excited to drop the word "Interim" from Interim Director and assume Directorship of this interdisciplinary unit. My enthusiasm comes from three major reasons: the people involved, the University support and the research programs and ideas generated by the Division.

Because the program is essentially a volunteer, interest-driven program, faculty & students participate because they see the value in interdisciplinary research and training in nutritional sciences. All faculty have home departments and students have a variety of choices for graduate studies. People belong because they want to, not because they have to.

I continue to receive immense cooperation and support from all. Many go well beyond the call of duty to support the Division. It's a pleasure to be a facilitator in such a positive environment. A special note must go to Linda Barenthin, the Division secretary, without whom a smooth, efficient operation would be difficult; the 9 members of the Division Executive Committee, on whom I lean a great deal; and the Nutritional Sciences Graduate Student Assn., presently co-chaired by Cathi Peterson and Minnie McNary, who have worked very hard for the Division. We are now 47 students and 43 faculty strong.

In 1990, several participating Colleges pledged 5-year recurring operational funds for the Division: Medicine, Agriculture, Applied Life Studies, and Veterinary Medicine. Liberal Arts & Sciences also provided operational support in the 1990-91 academic year. In addition, the central administration provided new funds for support of the Director, when most requests were denied. Thus, despite poor economic times for the University (yes, the U of I like most other universities has received no increase in state funding), supporting units

continue to recognize the value of the Division to their Colleges.

The most exciting aspect of my position is facilitation of team building for training & research in nutritional sciences. As we are all aware, the U of I has enormous resources of faculty expertise and an especially large number of faculty who list nutrition as a primary or secondary specialty. The Division catalyzes various combinations of expertise to create a unique training environment for students and new grant and research opportunities for faculty.

Our joint PhD program with the Department of Nutrition & Medical Dietetics from the U of I Chicago campus is now underway. Our first joint student, Deborah Sullivan, has completed her year on the UIUC campus working in Dr. Keith Kelley's lab and returned to Chicago to continue her PhD work with Dr. Savitri Kamath. Greg Paul will spend the 1991-92 academic year working with Dr. Donald Layman before returning to work with Dr. Phyllis Bowen. Three more students are in line to do the same.

Since October 1990, 17 students have graduated with MS or PhD degrees, and we welcome 13 new students this fall (see listing for both in this newsletter). We wish all graduating students an excellent future.

Best regards,

John W. Erdman, Jr.  
Director

## *New Division Director Appointed*

Following a nationwide search, Interim Director Dr. John W. Erdman, Jr. was officially appointed Director of the Division of Nutritional Sciences on March 21, 1991. With his appointment, the Division has filled the position vacated by Dr. John Milner in September 1989. Dr. Erdman brings 16 years of faculty experience at the U of I to the position as well as high standards of academic and research excellence.

## *NS Welcomes Invited Lecturers*

The Division hosted seminar presentations given by distinguished scientists in nutrition-related fields. Dr. David Kritchevsky of the Wistar Institute visited campus as a National Dairy Council Visiting Professor in Nutrition. Dr. Kritchevsky discussed the impact of nutrition as a risk factor in the development of cancer and heart disease. He delivered three lectures, including a community presentation and Grand Rounds at Carle Clinic. Dr. David Ong of Vanderbilt University presented a seminar entitled "The Role of Cellular Retinol-Binding Protein (II) in the Absorption of Vitamin A" and was a guest lecturer in Dr. Erdman's course dealing with Vitamin A and pro-Vitamin A compounds. Dr. Barbara Schneeman of the University of California at Davis addressed the issue of "Gastrointestinal Response of Dietary Fiber." NS alumnus Dr. Steve Clinton (Ph.D., 1978), from the Dana-Farber Cancer Institute of the Harvard Medical School, presented "Macrophage-Colony Stimulating Factor: A Mediator of Atherosclerosis?"

In conjunction with the Department of Animal Science, Dr. James W.T. Seakins of the Institute for Child Health, London, England, held a lecture-in-the-round on "Reminiscences on 30 Years with Human Inherited Disorders—Successes and Failures."

As part of the MILLERCOM91 University Lecture Series, the Division participated in welcoming Dr. Sten Orrenius, Director of the National Institute of Environmental Medicine and Professor and Chairman of the Department of Toxicology at the

Karolinska Institute in Stockholm, Sweden. Dr. Orrenius presented "Death of a Cell" which focused on the beginning processes of deterioration from aging or disease that eventually lead to cell death.

## *Division Gains New Faculty*

The Division of Nutritional Sciences elected three new faculty members during the past year.

Dr. Sharon M. Donovan, Assistant Professor in the Division of Foods and Nutrition, works in the field of maternal and infant nutrition. Her current interests deal with human milk composition and the role and nutritional mediation of insulin-like growth factors in human milk. She recently arrived on campus after earning a Ph.D. from the University of California at Davis and a Postdoctoral Fellowship at Stanford University.

Dr. James K. Drackley, Assistant Professor in the Department of Animal Sciences, focuses his research efforts on ruminant nutrition and metabolism. His many interests include metabolic diseases, postprandial supply of nutrients and manipulation of milk composition. Dr. Drackley received his Ph.D. from the University of Wisconsin-Madison.

Dr. Rachel J. Stillman, Assistant Professor in the Department of Kinesiology, is involved in areas concerned with the effects of aging on physiological processes. She is currently focusing her research efforts on exercise and age-related bone loss along with physical activity and aging. Dr. Stillman earned her Ph.D. from the University of Illinois at Urbana-Champaign.

Guidelines for membership in the Division include interest in nutrition, ability to conduct quality research relevant to the field of nutrition and ability to contribute to graduate nutrition education. Once elected, members serve in five-year terms which are renewable.

## *Division Faculty Retire*

Two distinguished NS faculty members retired following the 1990-91 academic year.

Dr. John Willis, who specialized in cell physiology and membrane

transport, was a member of the Nutritional Sciences Division from 1981-1991. He served on the NS Executive Committee and advised several NS students during his decade of division membership.

Dr. Sorab Mistry was appointed Professor Emeritus. He focused his research efforts on the B Vitamins and Co-Enzymes. Dr. Mistry has been active in the Division since its inception in 1967, particularly contributing to teaching the NS 411 course.

## *International Lectures by NS Faculty*

Dr. David H. Baker was an invited speaker at the International Conference on Amino Acids and Peptides held in Vienna, Austria.

Dr. Leann L. Birch presented an invited lecture at the Benjamin Franklin Symposium on Determinants of Food Intake and Selection in LaNapoule, France.

Dr. Jimmy H. Clark lectured on the topic of "Feeding Strategies to Optimize Nutrient Passage to the Small Intestine of Dairy Cows," at the Dairy Conference of Feed Dealers, Salesmen, and Extension Agents in Montreal, Canada. While in Montreal, Dr. Clark also spoke at the Ralston Purina International Scientific Advisory Board Meeting on "Amino Acid Passage to the Small Intestine of Lactating Dairy Cows Eating Large Amounts of Feed."

Dr. Robert A. Easter was an invited speaker at the Mexican Association of Animal Nutrition Specialists Annual Conference held in Irapuato, Guanajuato, Mexico. Dr. Easter also spoke at the 1991 Latin American Conference for Animal Nutrition-Swine Production School, a continuing education course held at the Central American School for Agriculture and Livestock Production near San Jose, Costa Rica.

Dr. Keith W. Kelley presented an invited talk at the Boehringer Ingelheim Conference in the Black Forest, Germany. He also lectured at the European Winter Conference on Brain Research in Crans-Montana, Switzerland and gave a formal seminar at the Pasteur Institut in Paris, France.

Dr. Harold M. Swartz presented two lectures at the XIV International Pigment

Cell Conference in Kobe, Japan. His topics were "Melanin as a Redox Polymer, Binder of Metal Ions, and Modifier of Oxidative Reactions: A Hypothesis to Explain the Origin of Parkinson's Disease" and "Melanin Biophysics." In addition, Dr. Swartz spoke at Meiji College of Oriental Medicine in Kyoto, Japan on "The Use of EPR to Measure Pertinent Concentrations of Oxygen in Complex Biological Systems, Including In Vivo," and was a guest of the Pharmaceutical Society of Japan to lecture about "Recent Development of EPR-In Vivo EPR Measurement of Spin Clearance and Oximetry in Tissues of Living Animals," at Shoma University in Tokyo, Japan. He also lectured on "Special Topics in Medical Magnetic Resonance" at Expanding Frontiers in Polypeptide and Protein Structural Research in Whistler, British Columbia, Canada.

## *Faculty Give National Lectures*

Dr. David H. Baker was selected the Trout Visiting Lecturer at Michigan State University. He was also an invited guest speaker for the Paul Grumminger Retirement Symposia at Rutgers University and the NFIA Nutrition Institute in Chicago, Illinois.

Dr. Karen Chapman spoke on "The Role of the R.D. in Nutritional Support Teams" to the Western Indiana Dietetic Association; she also lectured to the Eastern Illinois Dietetic Association on "The Role of the R.D. in Research."

Dr. Jimmy H. Clark gave several guest lectures this past year. In Raleigh, North Carolina, he spoke on "Naturally Protected Protein Supplements for Dairy Cows" at the Ajinomoto Co., Inc., Amino Acid Research Conference and on "Protein and Amino Acid Nutrition of Lactating Dairy Cows" at the Purina Mills Conference for Dairy Consultants. He lectured on the topic of "Synchronous Energy and Protein Supply for Optimization of Rumen Fermentation" to the American Society of Animal Science in Ames, Iowa. He presented "Protein for Dairy Cows" at the Continental Grain Company Advanced Dairy Seminar in Canton, Ohio. As part of the Northwest Dairy Symposium, he was a speaker on

"Feeding Dairy Cows-Energy and Protein Relationships." In addition, he delivered the presentation "Dairy and Amino Acids" to the NFIA Amino Acid Institute in Chicago, Illinois.

Dr. Sharon M. Donovan spoke at the 5th International Conference on Lactation held in Asilomar, CA, dealing with the topic "Sources of Insulin-like Growth Factors and Their Binding Proteins in Rat Milk." Dr. Donovan lectured at the 2nd International Symposium of Insulin-like Growth Factors/Somatomedins in San Francisco, CA, on the subject of "Hepatic IGFBP mRNA Expression During Pregnancy in the Rat." She presented "Effect of Heat Treatment on Insulin-like Growth Factors and Their Binding Proteins in Human Milk" at the Atlanta FASEB Meeting. She addressed the topics "Sources of Insulin-like Growth Factors and Their Binding Proteins in Rat Milk" at the Gordon Research Conference on Mammary Gland Biology, "Ontogeny and Tissue Distribution of Insulin-like Growth Factor Binding Protein (IGFBP) -1, -2, -3, and -4 mRNA Expression in the Rat" at the Endocrine Society Meeting, and "Hepatic IGFBP mRNA Expression During Pregnancy in the Rat" at the University of Illinois Reproductive Biology Retreat.

Dr. James K. Drackley spoke on "Fatty Liver in Dairy Cows" at the Distiller's Feed Research Conference in Syracuse, New York.

Dr. John W. Erdman, Jr. presented three symposia talks on the new federal actions on Nutrition Labeling at Purdue University, the National IFT Meeting and in Chicago. Dr. Erdman gave a symposium talk on "Bioavailability of Vitamins" at the Annual American Society of Animal Science Meeting in Laramie, Wyoming. He also chaired a mini-symposium on Carotenoids at the Annual FASEB Meeting in Atlanta.

Dr. George Fahey presented "Newer Fiber Methodology" at the National American Society of Animal Science meeting, "Short Chain Fatty Acid Production and Utilization by Animals" at the 10th Ross Research Conference, "Fiber Chemistry and Utilization" at Iowa State University, "New Techniques in Analysis of Dietary Fiber" at Farmland Industries and "Beet Pulp as a Fibrous Ingredient in Animal Diets" at American Crystal Sugar Corporation.

Dr. Elizabeth Jeffery was an invited speaker at FASEB to discuss the interrelationship between Nutrition, Pharmacology and Toxicology. In addition, Dr. Jeffrey was organizer and chairperson of the Federation Symposium entitled "Drug Metabolism in Humans: From Molecular Biology to Man."

Dr. James Kaput gave an invited lecture entitled "Molecular Genetic Analysis of Diet Regulated Gene Expression" as part of the Nutrition and Cancer Symposium at the annual FASEB Meeting.

Dr. Neal R. Merchen presented "An Update on Amino Acid Nutrition of Beef Cattle" at the Minnesota Nutrition Conference in Bloomington, MN. At the National Alfalfa Symposium in Rochester, NY, he spoke on "Optimizing Use of Alfalfa Protein In Beef Cattle Diets." Also, Dr. Merchen addressed the topic "Estimation of Protein Degradation in the Rumen" at the American Feed Ingredients Association Annual Meeting in St. Louis, MO.

Dr. Ralph A. Nelson participated in the National Aeronautics and Space Administration Outreach Program.

Dr. Edward G. Perkins presented "Characterization of Deep Fat Fried Flavor" and "Analysis of Tissue Lipids by High Performance Liquid Chromatography" at the 1991 AOCS Meeting in Chicago.

Dr. Keith Singletary chaired the Nutrition and Cancer IV Minisymposium at the 1991 FASEB Meeting in Atlanta.

Dr. Harold M. Swartz lectured on "Direct Measurement of the Concentration of Oxygen Cells In Vivo" at the Oxidative Damage and Repair Meeting in Pasadena, California. He also presented "Selective Contrast Agents for Measurement of Redox Metabolism and for Spectroscopy" to Bristol-Myers Squibb at The Squibb Institute for Medical Research in New Brunswick, New Jersey.

Dr. Willard J. Visek presented an invited lecture on "Diet and Cancer" during the Proteins and Co-Products Section Luncheon at the AOCS Meeting in Chicago.

## *Professional Activities*

Dr. David H. Baker is a Councilor for the American Institute of Nutrition.

He also serves as an Associate Editor for the *Journal of Nutrition*.

Dr. John W. Erdman, Jr. is Chairman of the American Institute of Nutrition Annual Program Committee for the 1992 and 1993 AIN Meetings. He also serves on three National Academy of Sciences Committees and as an Associate Editor for the *Journal of Nutrition*.

Dr. George Fahey is a member of the National Research Council (NRC) Subcommittee on Laboratory Animal Nutrition (1991-93) and the Steering Committee for the National Conference on Forage Quality Evaluation and Utilization (1991-94). Dr. Fahey holds a position on the Editorial Board for the *Journal of Dairy Science* and is an Associate Editor for the *Journal of Nutrition*.

Dr. Elizabeth Jeffrey is an Editor of the *Drug Metabolism Newsletter* of the American Society for Pharmacology and Experimental Therapeutics; in addition, Dr. Jeffrey serves on the Editorial Board of the *Journal of Pharmacology and Experimental Therapeutics*.

Dr. Keith W. Kelley holds a position on the Editorial Boards of *Progress in NeuroEndocrinImmunology*, *Brain, Behavior and Immunity* and *Animal Biotechnology*. Dr. Kelley is a NIH Reviewer for Allergy and Immunology Study Section. He also organized a symposium at the Winter Conference on Brain Research.

Dr. Donald Layman is serving as Acting Director of the School of Human Resources and Family Studies at UIUC. Dr. Layman is an Associate Editor for the *Journal of Nutrition*.

Dr. Edward G. Perkins is an Associate Editor for the *Journal of American Oil Chemists' Society* (AOCS) and serves on the Governing Board of AOCS. Dr. Perkins was the Technical Program Director for the 1991 AOCS Annual Meeting held in Chicago, IL.

Dr. Susan Potter served as President of the Eastern Illinois Dietetic Association for 1990-91. Dr. Potter holds membership in the American Institute of Nutrition and the American Dietetic Association.

Dr. Arthur J. Siedler is currently the Chairperson of the Research and Education Committee in the Illinois Food Processing Task Force; Chairperson of the Career Guidance Committee for the Chicago Section of the Institute of Food Technologists

(IFT) and a member of BIFAD/USAID Bean/Cowpea Cooperative Research Support Program External Evaluation Panel.

Dr. Willard J. Visek has been reappointed to the United States Department of Agriculture Human Nutrition Board of Scientific Councilors. Dr. Visek continues his work as Editor-In-Chief of the *Journal of Nutrition*.

Dr. Matthew A. Wallig is a member of the Processing and Co-products Subcommittee and an ad hoc member of the Management Subcommittee for USDA-CSRS, Office of Critical Materials, High Erucic Acid Development Effort (HEADE). Dr. Wallig serves as an ad hoc reviewer for *Veterinary Pathology*.

## Faculty Grants and Research Support

### Federal Grants

#### NIH

Dr. Leann L. Birch has received a three-year award to study "Associative Conditioning of Children's Food Preferences."

Dr. Keith W. Kelley was awarded a three-year renewal to continue research on "Hormonal Restoration of a Functional Thymus During Aging."

Dr. Toshiro Nishida was granted a five-year extension of his NIH MERIT Award from the National Heart, Lung and Blood Institute/NIH entitled "The Role of Plasma Lipoproteins in Atherosclerosis."

Dr. Harold M. Swartz was the recipient of several NIH research awards. He received a five-year grant to study "Measurement of Intracellular Oxygen"; he also was a co-principal investigator for the five-year award granted to the University of Illinois Electron Spin Resonance Center.

#### USDA

Drs. John W. Erdman, George Fahey and Neal A. Merchen were awarded a two-year renewal from the USDA to continue study on "Evaluation of Beta-Carotene Metabolism using Animal Models."

Drs. James Kaput and Willard J. Visek were awarded a three-year grant from the USDA to study "Molecular Genetic Analyses of Dietary Fat - Regulated Gene Expression."

Dr. Arthur J. Siedler is a co-principal investigator as part of a USDA National Needs Fellowship Award.

Dr. Matthew Wallig has been granted a one-year award from HEADE, USDA-CSRS, and the Office of Critical Materials for the "Evaluation of Crambe Meal as a Feed Supplement in Chicks."

#### NSF

Dr. Ralph A. Nelson has been awarded by the National Science Foundation to examine the "Metabolic Adaptations of Fasting Polar Bears."

Dr. Harold M. Swartz was granted a two-year NSF award to investigate "Measurement of Temperature In Vivo by ESR."

#### FDA

Dr. Edward G. Perkins received a one-year award in conjunction with the FDA National Center for Food Safety and Technology in Chicago to study "Formation and Isolation of Isomeric and Cyclic Fatty Acid Components in Processed Menhaden Oil."

#### Other Major Institutional Grants

Dr. Sharon M. Donovan was awarded one-year grants from the University of Illinois Research Board and as part of a U of I Biomedical Research Grant to investigate "Insulin-like Growth Factors (IGFs) and IGF Binding Proteins in Mammary Physiology and Lactation" and "Autocrine and Paracrine Regulation of Mammary Growth by Insuline-like Growth Factors (IGFs) and IGF Binding Proteins," respectively.

Dr. Li Li Ji has received support from the American Federation for Aging Research.

Drs. Li Li Ji and Harold M. Swartz received a three-year award from the American Heart Association, Inc., to investigate "Post-Ischemic Free Radical Injury in Hypertrophied Rat Heart."

Dr. Neal R. Merchen has received funding from VitaPlus Corporation and the Illinois Soybean Program Operating Board for the "Evaluation of Roasted Whole Soybeans as a Source of Amino Acids for Ruminants" and "Development of Laboratory Tests to Monitor Effects of Heating on Whole Soybeans," respectively.

Dr. Jack Odle has received a one-year grant from the University of Illinois Research Board.

Dr. James L. Robinson has received support from the Holstein Association of America to study two inherited disorders in cattle, namely "Deficiency of Uridine Monophosphate Synthetase" and "Citrullinemia".

Dr. Keith Singletary was granted a two-year renewal by the American Institute for Cancer Research to continue the study of "Chronic Alcohol Intake and Chemically-Induced Mammary Carcinogenesis."

Dr. Harold M. Swartz will investigate the "Role of Melanin, Metal Chelation, and Oxidative Cytotoxicity in the Pathogenesis of Parkinson's Disease" from support by The United Parkinson Foundation.

### *Private Industry Support*

Dr. David H. Baker has been awarded support from Carnation to study "Urinary Taurine Excretion in the Cat." Dr. Baker has also received support this year from Ajinomoto, Inc., Degussa, Inc., Nutri-Quest, Inc. and ZinPro Corporation.

Dr. Jimmy H. Clark has received support from Church & Dwight Co., Inc. to investigate "Buffers for Dairy Cows." Rhone-Poulenc, Inc. is supporting Dr. Clark's study of "Effects of Decoquinatone on Growth of Dairy Calves."

Dr. James K. Drackley has received support for the "Evaluation of Alifet™ in Diets for High-Producing Dairy Cows" from Alifet USA, Inc. Dr. Drackley also was granted support to study the "Effect of Degree of Unsaturation of Supplemental Fatty Acids on Milk Protein Production" by Milk Specialties Company.

Dr. Robert A. Easter was awarded research funding from the following companies: DeGussa, Inc., Tanabe, Pfizer, and Finn Feeds.

Dr. John W. Erdman received industry support from Procter and Gamble, Kraft, and Mead-Johnson.

Drs. Susan M. Potter and John W. Erdman, Jr. will study "Hypocholesterolemic Effects of Soy Protein" with combined support from the Illinois Soybean Operating Board, American Soybean Association and Protein Technologies International.

Dr. George Fahey was awarded two grants from Ross Laboratories to examine the "Effects of Fermentable Fiber Source on In Vitro Colonization Resistance by Clostridium Difficile" and "Fibrolytic Activity of Infant Microflora." In addition, The Iams Company will support Dr. Fahey's research of "Fibrolytic Activity of Canine Microflora."

Dr. Keith W. Kelley was awarded a research grant from Pfizer, Inc.

Dr. Jack Odle has received contracts from Biokyowa and Calreco as co-principal investigator on the subject of "Taurine Metabolism in Cats." Dr. Odle also was awarded to study "Enhancement of Medium-Chain Triglyceride Utilization by Neonatal Piglets" by the National Pork Producers Council.

Dr. Arthur J. Siedler has received support from General Mills.

### *Faculty Awards and Honors*

#### *Jeffery Selected as PEW Foundation Faculty Fellow*

Dr. Elizabeth Jeffery was awarded a PEW Foundation Faculty Fellowship for Fall 1991 to work with Dr. L. Pohl at the National Institutes of Health in Bethesda, MD, on the "Mechanisms of Halothane Toxicity."

#### *Visek Chosen as Wellcome Visiting Professor*

Dr. Willard J. Visek was selected as a Wellcome Visiting Professor in the Basic Medical Sciences. This program, which is sponsored by The Burroughs Wellcome Fund and administered by the Federation of American Societies for Experimental Biology, is intended to stimulate interest and encourage careers in the basic medical sciences. Dr. Visek will spend several days at Oregon State University lecturing and interacting with medical students, faculty and staff. The highlight of the visit will be the Wellcome Lecture by Dr. Visek.

### *Other Awards*

Dr. Karen Chapman received a Performance Award from Danville Veterans Administration Medical Center.

Dr. Jimmy H. Clark received the H.H. Mitchell Award for Excellence in Graduate Teaching and Research in Animal Sciences presented by the Department of Animal Sciences at the University of Illinois.

Dr. John W. Erdman, Jr. was named to a three-year term as member of the Food and Nutrition Board, Institute of Medicine, National Academy of Sciences.

Dr. George Fahey was honored by the American Feed Industry Association for Ruminant Nutrition Research.

Dr. Jack Odle received the International Life Sciences Institute-Nutrition Foundation Future Leader Award for 1991 and shared a 1991 IBM Research Award administered through UIUC Research Board with Dr. James K. Drackley.

Dr. Shelly Schmidt received a University of Illinois Vice Chancellors Teaching Scholars Award, 1990-91.

Dr. Matthew Wallig was selected as a 1991 American Academy for the Advancement of Science Fellow.

### *New Graduate Students*

Thirteen graduate students joined the Division and its faculty. The following list includes the name of the new graduate students and their Faculty Advisor.

Sean Adams	Dr. Jack Odle
Frantzie Balmir	Dr. Susan Potter
Jennifer Fisher	Dr. Leann Birch
Ziwen Guo	Dr. Toshiro Nishida
Theo Kempen	Dr. Jack Odle
Patricia Kloss	Dr. Matthew Wallig
*Mary Larson	Dr. Susan Potter
Nicole de Leeuw	Dr. James Robinson
Leslie McNeil	Dr. Susan Potter
James Muoio	Dr. Sharon Donovan
Greg Paul	Dr. Donald Layman
*Greg Sunvold	Dr. George Fahey
Li Zhang	Dr. Barbara Klein

\*denotes entered NS program in Spring 1991.

### *Class of 1991*

The Division granted advanced degrees to 17 students during the 1990-1991 year. We wish them success in their endeavors.

Jana Bryant (M.S., Dr. Leann Birch) is seeking employment.

Ann Ching (M.S., Dr. Toshiro Nishida) works at Pfizer in Groton, CT, as an Assistant Scientist in the Animal Health Department.

Karen Dotson (M.S., Dr. Mary Frances Picciano) is a staff writer for the American Oil Chemist's Society Member Magazine, INFORM, in Champaign, Illinois.

Timothy Elliott (Ph.D., Dr. Willard Visek) holds the position of Human Safety Toxicologist for The Procter and Gamble Company in Cincinnati, OH.

Alyce Fly (Ph.D., Dr. Gail Czarnecki-Maulden) is an Assistant Professor at Indiana University in Bloomington, IN.

Martha Funk (Ph.D., Dr. David Baker) is an Assistant Professor at the University of Utah in Ogden.

Lesley Helyar (Ph.D., Dr. Adria Sherman) works as a New Jersey Commission on Cancer Research Postdoctoral Fellow at Rutgers University in New Brunswick, NJ.

Matthew Kuchan (Ph.D., Dr. John Milner) is a Postdoctoral Scholar in the Department of Chemical Engineering at The Pennsylvania State University in University Park, PA.

Gongjin Luo (M.S., Dr. John Milner) is employed by Abbott Labs in Abbott Park, IL, as a Pharmacology Associate.

Darran Moxon (M.S., Dr. Elizabeth Jeffrey) is a medical student at the University of Illinois-Chicago Medical School.

Janet Novotny (M.S., Dr. John Milner) is a doctoral candidate in the Department of Biophysics and Physiology at UIUC.

Mohammed Sika (Ph.D., Dr. Donald Layman) is a Postdoctoral Fellow at the Vanderbilt University Medical School in Nashville, Tennessee.

Tracy Tasker (M.S., Dr. Susan Potter) is actively pursuing employment opportunities while living in the suburban Chicago area.

Ann Trusk (M.S., Dr. Michael Murphy) is employed by the Brookfield Zoological Society in Brookfield, IL.

An-Yue Tu (Ph.D., Dr. Toshiro Nishida) temporarily resides in San Francisco while seeking employment opportunities.

Edna Wu (M.S., Dr. Li Li Ji) is currently seeking employment.

Maixin Wu (M.S., Dr. Harold Swartz) continues as a doctoral candidate in Nutritional Sciences at UIUC.

## NSGSA Activities

The Nutritional Sciences Graduate Student Association (NSGSA) had a very active and productive year. NSGSA hosted the Fall 1990 New Student Orientation reception and the annual fall picnic for NS faculty and students.

During the spring, the student association conducted MOCK FASEB prior to the 1991 annual Federation meeting in April. This year graduate students Leslie Bourquin, Darran Moxon and Chris Poor were presented travel awards by the Division for their outstanding poster presentations and Deborah Swartz won a travel award for her oral presentation at the MOCK event. The NSGSA, in conjunction with the Department of Internal Medicine, was awarded the National Dairy Council's Visiting Professor in Nutrition Award featuring Dr. David Kritchevsky.

## Student Presentations

NS graduate students presented their research data at various scientific meetings during the past year.

### FASEB

Les Bourquin — Fermentation of Various Fibrous Substrates by Human Colonic Bacteria In Vitro;

Alyce Fly — Iron Bioavailability in Diets Containing Isolated or Intact Sources of Hemicellulose;

Sarah Jaw — Anti-Cytochrome P<sub>450</sub> IIE<sup>1</sup> and Dimethyl Sulfoxide Inhibit Acetaminophen and Dimethylnitrosamine Oxidation Similarly;

Qiang Liu — Effect of Crambe Meal Feeding on Chick's Growth Rate, Organ Toxicity and Tissue Glutathione;

Darran Moxon — Aluminum Distribution Between Plasma and Erythrocytes Varies with Aluminum Load and the Use of Anticoagulants;

Christopher Poor — Evaluation of the Pre-Ruminant Calf as a Model for the Study of Carotenoid Absorption in the Human;

\*Deborah Swartz — Genomic Organization of a Fat Regulated Gene;

Tracy Tasker — Effects of Dietary Protein Variations on Lipid Metabolism in Inbred and Outbred Gerbils;

Gregory Wibert — Interaction of Branched-Chain Amino Acids and Insulin in the Regulation of Protein Synthesis;

Jin Rong Zhou — Phytic Acid Reduction in Soy Protein Improved Zinc Bioavailability.

\*denotes oral presentation

## Human Biology Council

Marcia Monaco — The Nutritional Status of Rural Ecuadorian Children Residing in Leishmaniasis-Endemic Areas of NW Ecuador.

## Graduate Student Honors and Awards

### Fellowships and Scholarships

Sean Barnes: Illinois Minority Graduate Incentive Program Fellowship;

Leslie Bourquin: Procter and Gamble Fellowship;

James Burns: Wright Fellowship;  
Barbara Fulton: University of Illinois Fellowship;

Courdo Lamboni: Fulbright Fellowship;

Christopher Poor: University of Illinois Fellowship;

Stacy Scardefield: 1991 Summer Research Grant from School of Human Resources and Family Studies;

Greg Sunvold: Wright Fellowship and National Feed Ingredients Association Scholarship;

Deborah Swartz: American Institute of Nutrition Predoctoral Fellowship;

Gregory Wibert: University of Illinois Fellowship.

## Students Attend National Policy Seminar

In April, the Division sent graduate students Sean Barnes and Joan Ham to attend the International Life Sciences Institute-Nutrition Foundation's National Nutrition Policy Seminar held in Washington, D.C. Along with faculty representative Dr. Bruce Chassy, the UIUC group had the opportunity to listen to speakers from various federal committees involved in

nutrition and federal organizations such as USDA, NIH, FDA and NAS.

## *Adams Receives Award*

Alexandra K. Adams was selected for the 1991 Student Research Program of the Society for Pediatric Research. In conjunction with a scholarship award, Ms. Adams spent the summer working with Dr. Edward Bell at the University of Iowa Hospitals and Clinics.

## *Graduate Student Notes*

Liz Paisley passed the registration exam in Dietetics in April 1991.

Stacy Scardefield was named to the List of Teachers Ranked as Excellent for her instruction in Foods and Nutrition 231.

## *Grandma's Breaks .500 Mark*

For the first time in club history, Grandma's Mustache, a potporri of Food and Nutritional Sciences recreational softball players, finished the 1991 softball season with a winning record. This year's squad compiled an 8-6 record in the Urbana Park District "C" league. This group of players consisted of: Steve Hill (Captain), John Erdman, Bill Artz, Tom Tiffany, Russ McDuffee, Eric Myers, Eric Gugger, Steve Hansen, Ali Ahmed, Dave Jeakle, Brent Flickinger and Bill Krueger with special guest appearances from Harold Schmitz, Bruce Chassy and numerous other fill-ins. Congratulations!

## *Alumni News*

### *1969*

Ching Kuang Chow (Ph.D.) continues work as a Professor in the Department of Nutrition and Food Science at the University of Kentucky in Lexington. He is a member of the Editorial Board for the *Journal of Nutrition*.

### *1970*

James G. Bergan (Ph.D.) remains a Senior Lecturer on the faculty in the Department of Food Science and Technology at the University of Western Sydney-Hawkesbury, Australia. He continues to serve as Chairman of the Faculty's Graduate Studies Committee. He cordially extends wishes for attendees at the XVth International Congress of Nutrition to be held September 26 thru October 1, 1993, in Adelaide. Any interested persons should feel free to contact Dr. Bergan.

Dr. E.K. O'Hea (Ph.D.) is a Family Physician at St. Joseph's Hospital in London, Ontario, Canada. He and his wife, Mary, have four children, Brian, John, Paul and Frances.

### *1971*

Melvin T. Yokoyama (Ph.D.) is a Professor of Animal Science at the Michigan State University in East Lansing. He serves as Section Editor for the *Journal of Animal Science*.

### *1972*

Ifeanyi Justin Arinze (Ph.D.) continues research in the field of Biochemistry and Molecular Biology of Signal Transduction as Professor and Chairman of the Department of Biochemistry at Meharry Medical College in Nashville, TN. He serves on the Research Advisory Committee for the March of Dimes Birth Defects Foundation.

Race L. Kao (Ph.D.) is Professor and Director of the Department of Surgery Research at the Allegheny-Singer Research Institute in Pittsburgh, PA.

George Klatt (M.S.) earned his Master of Business Administration degree during 1991.

### *1975*

Kailash Mathur (Ph.D.) is a Professor of Nutrition and Graduate Program Advisor in Nutritional Sciences at South Carolina State College in Orangeburg. He was honored as Teacher of the Year in the Department of Home Economics. He serves on the Board of Directors for the South Carolina Dietetic Association and the South Carolina Heart Association-Orangeburg Chapter and is currently the Chairman for the Licensing and Legislative Network.

His community activities include: Board of Directors for Rotary Club of Orangeburg and Chairman for the World Community Service.

Bruce A. Molitoris (M.S.) continues as Associate Professor of Medicine and Cellular and Structural Biology at the University of Colorado School of Medicine in Denver. He serves on the Editorial Board of the *American Journal of Physiology* and on the National Council of the American Federation for Clinical Research (AFRC) as well as Secretary and Treasurer for the Western Section of AFRC.

Frank H. Morris (M.S.) is a local activist for environmental, nutritional and medical concerns in the Philadelphia, PA, area.

### *1976*

Florian L. Cerklewski (Ph.D.) is an Associate Professor in the Department of Nutrition and Food Management at Oregon State University in Corvallis. He was the recipient of the 1991 OSU Nutrition Research Institute Gary Costley Award. He and his wife observed their 18th wedding anniversary during 1991. Their two sons are now 16 and 13 years old.

Guy H. Johnson (Ph.D.) is Director of Nutrition at The Pillsbury Company in Minneapolis, MN. He was recently elected to the Executive Committee of the IFT Nutrition Division.

### *1977*

Susan B. Jursinic-Nashert (M.S.) is an owner of Analytical Design Group, an environmental consulting firm, in Peoria, Illinois.

### *1978*

Warren J. Croom (Ph.D.) continues work as a Professor of Animal Science at North Carolina State University in Raleigh.

Roberta P. Durschlag (Ph.D.) is an Assistant Professor in the Department of Health Sciences at Boston University, Boston, Mass.

Patricia G. Weston (Ph.D.) continues work as a Research Specialist in the Department of Veterinary Biosciences at the University of Illinois, Urbana-Champaign.

1979

Larry Lawson (Ph.D.) serves as Director of Research at the Plant Bioactives Research Institute in Orem, Utah. His research focuses on analyzing garlic and garlic products for potential health benefits.

Brian R. Schricker (Ph.D.) is a Senior Research Scientist with Pitman-Moore in Terre Haute, Indiana.

Dan Schaefer (Ph.D.) was promoted to full Professor in the Department of Meat and Animal Science at the University of Wisconsin-Madison. His son Jeremy and daughter Mary are 12 and 5 years old, respectively.

1980

Dr. Leonard Gerber (Ph.D.) was promoted to Associate Professor of Nutrition at the University of Rhode Island in Kingston. In addition, he was selected as Director of Research Compliance, U.R.I. His second son was born in January 1990.

Edward Ulman (Ph.D.) is President of Research Diets, Inc. in New Brunswick, NJ. He co-sponsored the U of I Nutritional Sciences Mixer at the 1991 Annual Federation Meeting in April.

1981

Thomas Edes (M.S.) continues work as Associate Professor of Medicine at the University of Missouri School of Medicine in Columbia. He received a promotion to Associate Chief of Staff for Extended Care at the Harry S. Truman Memorial VA Hospital.

1982

Gilbert A. Boissonneault (Ph.D.) was promoted to Associate Professor in the Department of Clinical Sciences at the University of Kentucky in Lexington.

Lisa A. Marshall (Ph.D.) is currently Assistant Director of Inflammation Pharmacology for SmithKline Beecham Pharmaceuticals in King of Prussia, Pennsylvania. She presented "Identification and Distribution of Two Distinct Phospholipase A2 Activities in Human Platelets, Neutrophils and Monocytes" at the XIth Washington International Spring Symposium on Prostaglandins, Leukotrienes and Lipoxins.

Lisa A. Reich (M.S.) continues work as Senior Product Manager in the USCI Division of C.R. Bard, Inc. in Billerica, Mass.

1984

Michael Keenan (Ph.D.) continues work as an Assistant Professor in the Department of Human Nutrition at Louisiana State University in Baton Rouge. He has been chosen to write the Instructor's Manual for the second edition of *Nutrition Throughout the Life Cycle* published by C.V. Mosby. He also welcomed a new addition to his family in late July 1991.

Barbara A. Kochanowski (Ph.D.) was promoted to Section Head of the Health Care Product Development Division at The Procter and Gamble Company in Cincinnati, Ohio.

JoAnn Daehler-Miller (M.S.) continues as a part-time Nutrition Consultant for Pillsbury in Minneapolis. She gave birth to Ross Howard Miller on August 16, 1990.

Carolyn Spriggs Muchna (M.S.) is now a full-time homemaker. Her third child, Matthew, was born on April 19, 1991.

Kenneth A. Poirier (Ph.D.) continues work as an Environmental Health Scientist as part of the E.P.A.'s Environmental Criteria and Assessment Office in Cincinnati, OH.

1985

Kathy Golos (M.S.) is a Clinical Dietician for the University of Wisconsin Hospital and Clinics in Madison. She recently completed her terms as coordinator of Area II Dieticians in Nutrition Support (Dietetic Practice Group of American Dietetic Association) and chairperson of Dieticians in Nutrition Support, a subgroup of Philadelphia Dietetic Association.

Sharon L. Hoerr (Ph.D.) continues work as Associate Professor with the Department of Food Science and Nutrition at Michigan State University. She recently was selected to be a member of the New Members Committee for AIN. She helped organize the FASEB workshop in Atlanta on "Manuscript Preparation" with editors from *American Journal of Clinical Nutrition* and *Journal of Nutrition*.

Laura M. Rosch (M.S.) is a Resident in Internal Medicine at the Chicago College of Osteopathic Medicine. She holds membership in the American Dietetic Association and the American Osteopathic and Medical Associations. She was awarded a scholarship from the Illinois Association of Osteopathic Physicians and Surgeons in 1990.

1986

Kathryn K. Harden (Ph.D.) continues as an Assistant Editor for the *Journal of Nutrition* in Urbana, Illinois.

Lisa M. Olson (Ph.D.) works as a Research Associate for the Department of Pathology at the University of Chicago in Chicago, IL. She was married to Steven Jon Cok in 1989.

Anne M. Smith (Ph.D.) remains an Assistant Professor in the Department of Human Nutrition and Food Management at the Ohio State University in Columbus. She was elected to serve as Treasurer of the Columbus Dietetic Association in 1991.

1987

Karen Chapman (Ph.D.) is an Assistant Professor in Foods and Nutrition at the University of Illinois at Urbana-Champaign. She also serves as a Nutrition Specialist for the Cooperative Extension Service at UIUC. She gave birth to a son, Scot Lyle, on November 24, 1990.

Yu-Tsyr Li (M.S.) is a Post-Doctoral Research Associate in Equine Drug Testing and Toxicology at Cornell University in Ithaca, NY.

Frances T. Yen (Ph.D.) continues as Assistant Professor in the Department of Physiology at the Louisiana State University Medical Center in New Orleans. She serves as a member on the Council on Arteriosclerosis for the American Heart Association.

1988

Ronald D. Cotterel (M.S.) graduated from the University of Michigan Family Practice Residency Program in June where he received the 1991 Resident Teaching Award. He resides in California as a private practitioner of Family Medicine.

Kevin L. Fritsche (Ph.D.) remains an Assistant Professor in Animal Sciences at the University of Missouri in Columbia. He was voted an active member of the American Institute of Nutrition. He continues as chairperson for the Food for the 21st Century Nutrition Cluster Research Seminar Series and as Secretary of the Graduate Nutrition Area at MU. The USDA awarded Dr. Fritsche a three-year grant to study "Effect of Omega-3 Fatty Acids on Vitamin E Requirements: A Rat Immune Cell Model."



He also welcomed his second daughter, Sarah MacArthur, on May 19, 1991. She joins Carrie and Peter, 6 and 4 years old, respectively.

Shelley McGuire (M.S.) is a graduate student in the Division of Nutritional Sciences at Cornell University in Ithaca, NY. She is expecting her first child in September, 1991.

Melissa Meredith (M.S.) completed her three-year residency in Internal Medicine and is a fellow in the Department of Endocrinology and Metabolism at the University of Wisconsin at Madison.

Melissa Hendrix Olken (Ph.D.) finished her residency in Internal Medicine and will continue as a lecturer for the Department of Internal Medicine at the University of Michigan in Ann Arbor. She is also a member of the University of Michigan Hospitals Parenteral Nutrition Committee.

#### 1989

Eugene S. Olsowka (Ph.D.) is now Pathologist and Laboratory Director at Providence St. Margaret's Health Center in Kansas City, Kansas.

Jane Clark Schuelke (M.S.) continues work with UNIX International but relocated to Brussels, Belgium, in July 1990. She and her husband, Andy, welcomed their son Matthew on January 20, 1991.

#### 1990

Samuel Ejadi (M.S.) is a doctoral student in the Department of Pharmacology at the University of Illinois at Chicago.

Min Ma (M.S.) is a Ph.D. candidate in the Department of Biochemistry at the University of Illinois at Urbana-Champaign.

#### 1991

Lesley Helyar (Ph.D.) continues at Rutgers University in Piscataway, NJ, as a Postdoctoral Research Fellow in the Department of Pharmacology and Toxicology. She married Edward Steltzer in August of 1990.

Matthew Kuchan (Ph.D.) holds a Postdoctoral Research Assistant position in the Department of Chemical Engineering at The Pennsylvania State University, University Park, PA. He and his wife, Sandy, are expecting their second child in December 1991.

■ Division of Nutritional Sciences  
College of Agriculture  
University of Illinois  
451 Bevier Hall  
905 South Goodwin Avenue  
Urbana, IL 61801

NON-PROFIT ORGANIZATION  
U.S. POSTAGE PAID  
PERMIT #75  
CHAMPAIGN, IL 61820