

College of Human Sciences

Faculty News: February 23, 2007

Ruth MacDonald, Food Science and Human Nutrition, is the platform leader for a **\$1 million Battelle Initiative** award for advanced food projects. This award is from the \$3.69 million in state funding used to advance research in biosciences, information technology and advanced manufacturing at Iowa State University.

Florence Hamrick and **Frankie Laanan**, Educational Leadership and Policy Studies, are co-PIs on a **\$3,296,157** grant from the **National Science Foundation** for a project titled *ADVANCE Institutional Transformation Award: Comprehensive Institutional Transformation*. The PI on the project is Susan Carlson, Provost Office, and fellow co-PIs are: Diane Debinski and Bonnie Bowen, Ecology, Evolution and Organismal Biology; Sharon Bird and Jill Bystydzienski, Sociology; Carla Fehr, Philosophy and Religious Studies; and Carolyn Hessing, Industrial and Manufacturing Systems Engineering.

Peggy Martin and **Joyce Greving**, Extension to Families, received **\$630,907** from the **Iowa Department of Human Services** for the project, *Iowa Food Stamp Nutrition Education Program*.

Craig Gundersen (PI), **Steven Garasky**, **Brenda Lohman**, Human Development and Family Studies, **Joey Eisenmann**, Health and Human Performance, and Susan Stewart, Sociology, received a **\$500,000** grant from the **US Department of Agriculture** for their research study, *Food Insecurity, Stress and Childhood Obesity*.

Grace Marquis, Food Science and Human Nutrition, is a co-PI on a **\$358,791** grant

Continued on page 2

A Note from Associate Dean Thomas Andre

Making a difference in the lives of people, families, and communities by enhancing human potential—that phrase captures the essence of the vision to which we in the College of Human Sciences both aspire and do! This second newsletter of 2006-2007 captures many of the ways we make a difference. As the list of awards noted herein indicates, Human Sciences faculty continues to be active in soliciting and securing sponsored funding to support research, teaching, and outreach activities. The projects identified in this newsletter are but a sample of the range of exciting sponsored activities in which we as faculty, staff, and graduate students are involved.

Last year, the college offered seed grants to help facilitate interdisciplinary projects based on our college themes. At least two of the funded proposals funded noted in this issue were based in part upon findings from last year's seed grants. This year, as noted herein, the college has funded one additional interdisciplinary seed grant. In addition, the college funded six seed grants for new faculty.

The university has a major commitment to helping grow the bio-economy through an emphasis on basic and applied research. As the bioeconomy develops, it will affect the future development of Iowa, its families and people.

A major mission of the CHS is to positively impact human potential; it is important for us to examine the impact of the developing bioeconomy on people, families, and communities. To this end, the college this spring created a bioeconomy initiative launching a major commitment to examining the human impact of the bioeconomy. The college is pleased to fund a proposal in this area. Craig Gundersen and Cynthia Fletcher in Human Development and Family Studies, with Michael Larsen and Sarah Nusser in Statistics, will examine the *Impact of Biorenewable Technologies on Communities Across Iowa*.

Especially important for the future of the college was Dean Achterberg's announcement of two continuing initiative programs: the **Teaching Innovation** and the **Entrepreneurial Program Initiatives**. These initiatives seek proposals for

Continued on page 2

Continued from page 1

from the **National Institutes of Health** with PI Robert Mazur, Sociology, for their study *Optimal Child Nutrition in HIV-Affected Communities*.

Grace Marquis (PI), Manju Reddy, and Esi Colecraft, Food Science and Human Nutrition, Elisabeth Lonergan, Animal Science, Helen Jensen, Economics, and Lorna Butler, Sociology, were awarded **\$275,790** from the **University of California** for their research project, *ENAM in Africa: Enhancing Child Nutrition Through Animal Source Food Management*.

Lori Norton-Meier, Curriculum and Instruction, received a three year gift of **\$226,472** from the **Carver Trust** for her project, *When Science and Literacy Meet in the Primary Classroom (K-2): Investigating learning for young children when language events are connected to science inquiry*.

Mary Jane Brotherson (PI), Carla Peterson and **Gayle Luze**, Human Development and Family Studies, and **Carl Smith**, Curriculum and Instruction, were awarded a **\$190,421** grant from the **Department of Education** for their project, *Collaborative Leadership Training Program: Early Childhood Special Education*.

Carla Peterson (PI), Lesia Osterreich and **Gale Luze**, Human Development and Family Studies, received **\$200,205** from the **Iowa Department of Management** for their project, *Empowerment Professional Development Plan*.

Carla Peterson, Human Development and Family Studies, received **\$20,991** from the **Iowa Department of Education** for her project, *Evaluation of Shared Visions Preschool Program*.

Carla Peterson, PI and **Gale Luze**, Human Development and Family Studies, received **\$38,700** from **Mathematica**

Continued from page 1

seed funding of varying lengths of time and amounts up to \$25,000 for three years. The intent of these initiatives is to encourage entrepreneurial explorations of possible improvements in the teaching, research, and outreach programs we offer. Entrepreneurial, in the broad sense applied to these initiatives, means creatively developing ways to achieve our goals and mission. Seed funding from these initiatives returns to the initiative pool at the end of the project, thereby creating a continuing source of "venture capital" to nurture the entrepreneurial ideas of CHS faculty.

Policy Research Inc, for their research project, *Early Head Start Research and Evaluation Project—Grade 5 Follow-Up Data Collection*.

Carla Peterson (PI), Susan Hegland, and Lesia Oesterreich, Human Development and Family Studies, received **\$20,000** from the **University of Nebraska** for their project, *Midwest Child Care Research Consortium*.

Lesia Oesterreich, Human Development and Family Studies, received **\$189,090** from the **Iowa Department of Human Services** for her extension project, *Family Child Care Handbook and Training Manual*.

Lesia Oesterreich (PI), Human Development and Family Studies, and Sharon Mays, Extension to Families, received **\$250,000** from the **Iowa Department of Management** for the project, *New Staff Orientation Program*.

Lesia Oesterreich (PI), Human Development and Family Studies, and Sharon Mays, Extension to Families, received **\$30,000** from the **Iowa Department of Management** for the project, *Next Steps ERS Training*.

Frankie Santos Laanan, Educational Leadership and Policy Studies, received **\$140,000** from the **Iowa Department of Education** for the research project, *Vocational Educational Accountability*.

Continued on page 3

Continued from page 2

Gary Phye, Curriculum and Instruction, received **\$114,000** from the **Heartland Area Education Agency II** for his project, *Enhancing Education Through Technology (E2T2) Consortium Evaluation of Professional Development Model*.

**Teacher Education Update
From Associate Dean
David Whaley**

Teacher education at Iowa State University has a fresh look and a new exciting campus-wide connection. A teacher education program, such as ours, is much more than one office or one academic department. Although housed in the College of Human Sciences, this is a university-wide program that reaches many colleges and departments. This is a program that epitomizes the College's vision of "Expanding Human Potential." Our graduates teach in all 50 states and in a number of foreign countries. Literally tens of thousands of children, birth to 12th grade, are directly influenced by Iowa State alumni as they contribute to the development of productive and successful global citizens.

This is a vibrant program that seeks new ways to expand on its successes and keep abreast of the changes in today's educational and workplace settings. Although the theoretical preparation of pre-service teachers in the university's classrooms is critical, this program has a formula of preparation that emphasizes extensive field experience opportunities. With a careful blend of theory and practice, new Iowa State graduates are prepared for the needs of a changing society and for those challenges associated with the local, state, and federal expectations for greater accountability, productivity, and success.

Teacher education continues to create new initiatives to increase the presence of science, technology, and math teachers in today's educational settings. There is a national call for more STEM (science, technology, engineering, and mathematics) teachers in order for this nation to compete in the global community. Already underway at Iowa State is an initiative for developing more opportunities to emphasize the components found in STEM programs. Also, the program is exploring ways to address the high need in today's schools for teachers of English Language Learners (ELL) and for special education teachers.

Teacher education is an exciting place to be these days and we welcome your input and participation in all that we do.

Gary Phye, Curriculum and Instruction, received **\$10,000** from the **Iowa Department of Education** for his project, *Special Education Recruitment and Retention Study*.

Manju Reddy and **Grace Marquis**, Food Science and Human Nutrition, were awarded **\$146,565** from the **Department of Agriculture** with Gail Nonneke (PI), Horticulture, Charles Burras, Agronomy, Rameshwar Kanwar, Agricultural and Biosystems Engineering, and David Acker, Global Agriculture Programs, for their project, *Cultivating New Leaders in Global Agriculture: Undergraduate Experiential Learning to Develop Multiple Perspectives*.

Diane Birt (PI), **Manju Reddy**, **Suzanne Hendrich**, Kenneth Prusa and Wang Tong, Food Science and Human Nutrition, received **\$12,454** from **Texas A&M University** for their project, *The Science of Foods for Health: A Multi-Institutional, Multi-Disciplinary Effort for Undergraduate Education*.

Peter Martin (PI) and **Maurice MacDonald**, Human Development and Family Studies, were awarded **\$100,238** from the **University of Georgia** for their research project, *Resources and Adaptation in Centenarians*.

Ruth MacDonald, Food Science and Human Nutrition, received a **\$90,000** grant from the **Midwest Dairy Association** for her project, *Midwest Dairy Association Research Program*.

Ruth MacDonald, Food Science and Human Nutrition, received a **\$19,620** grant from the **University of Missouri** for her project, *High Moisture Extrusion of Fibrous Soy Protein Meat Analog*.

Susan Hegland, Human Development and Family Studies, Mark Shour (PI), Linda Naeve and Carol Pilcher, Entomology, received an **\$85,000** grant from the **Iowa Department of Human Services** for their

Continued on page 4

Continued from page 3

project, *Pesticide Use and Chemical Safety of the Iowa Child Care Providers*.

Janet Melby, Human Development and Family Studies, was awarded **\$64,380** from the **University of Wisconsin-Madison** for the research project, *Parent-Child Communications and Health Risk Behavior*.

Janet Melby, Human Development and Family Studies, received **\$23,267** from the **Cincinnati Children's Hospital Medical Center** for the study, *Improving Mental Health Outcomes of Child Brain Injury*.

Wendy White, Food Science and Human Nutrition, received **\$45,000** in supplemental funding from **Centro International De Agricultura Tropical** for her research study, *High Beta-Carotene Maize to Alleviate Vitamin A Deficiency in Sub-Saharan Africa*.

Brenda Lohman, Human Development and Family Studies, received a **\$42,591** award from **Northwestern University** for her project, *Welfare Reform and the Well-Being of Children*.

Brenda Lohman, Human Development and Family Studies, received \$12,000 from Northwestern University for her study, *Children, Families and Welfare: A Three-City Study*.

Ken Prusa, Food Science and Human Nutrition, Donald Beitz and Thomas Baas (PI), Animal Science, were awarded **\$31,988** from the **National Pork Board** for their study, *Selection for Increased Intramuscular Fat and Its Effect on Other Quality Traits and the Fatty Acid Composition of Pork*.

Sam Beattie (PI) and **Terri Boylston**, Food science and Human Nutrition, and Kim Bentley, IPRT Company Assistance received **\$30,934** from **Clear Lake Specialty Products** for the research

project, *Quality and Product Improvement of Baked Cookies and Cookie Dough*.

Marcia Rosenbusch, Curriculum and Instruction, received **\$24,040** from the **Iowa Department of Education** for the *Iowa Dual Immersion and Elementary School Foreign Language Project*.

Dan Russell, Human Development and Family Studies, received a **\$19,051** grant from the **University of Minnesota** for the research project, *Nationally Representative Quality of Life Weights*.

Michael Spurlock, Food Science and Human Nutrition, received **\$51,460** from the **US Department of Agriculture** for the study, *Regulation of Lipogenesis and Fatty Acid Oxidation in the Pig by Adiponectin*.

Joey Eisenmann, Health and Human Performance, received **\$7,500** from the **Cooper Institute** for his project, *ROC Analysis of Fatness Measures: Application to Fitnessgram*.

Gregory Welk, Health and Human Performance, received **\$16,784** from the **Iowa Department of Public Health** for the project, *Evaluation of Iowans Fit for Life*.

Alan Murdoch, Health and Human Performance, received **\$8,000** from **Serving the American Rinks** for his project, *USA Hockey: Adult League Database Program*.

Mari Kemis, Research Institute for Studies in Education, received **\$1,268** from the **Iowa Department of Public Health** for work on the project, *Analysis of the Iowa Youth Survey*.

Mari Kemis (PI) and **Robin Galloway**, Research Institute for Studies in Education, received **\$18,955** from the **Des Moines Independent Community School District** for the study, *Evaluation of Des Moines Independent Community School District Drop Out Programming*.

Continued on page 5

Continued from page 4

Mari Kemis (PI) and **Robin Galloway**, Research Institute for Studies in Education, received **\$30,000** from the **School Administrators of Iowa** for the project, *Evaluation of the Iowa Statewide Parental Information and Resource Center*.

Mack Shelley, Educational Leadership and Policy Studies, received **\$2,560** from the **Iowa Department of Public Health** for his study, *Analysis of Synar Amendment Vendor Checks Data*.

Mack Shelley (PI), Educational Leadership and Policy Studies, and **Robin Galloway**, Research Institute for Studies in Education, received **\$29,048** from the **Iowa Department of Education** for the project, *Program Evaluation of Iowa Positive Behavior Supports Initiative, Post Doc Position*.

Larry Ebbers, Educational Leadership and Policy Studies, received **\$14,585** from **Des Moines Area Community College** for the project, *DMAcc Firsts*.

Craig Gundersen, Human Development and Family Studies, Michael Larsen (PI) and Jean Opsomer, Statistics, received **\$10,000** from the **US Department of Agriculture** to fund their project, *Exploration of Issues in Rural Household Survey Design*.

Nana Osei-Kofi, Educational Leadership and Policy Studies, Adela Licon English, Marta Maria Maldonado, Sociology, and Ferruccio Trabalzi, Community and Regional Planning, received a **\$10,000 Interdisciplinary Collaborative Research Award** from the **ISU Center for Excellence in the Arts and Humanities** for their study, *Globalization and Place-Making in Perry, Iowa: Planning and Exploratory Socioaspatial Analysis*.

Leslie Bloom, Curriculum and Instruction, received **\$3,000** from the **Iowa State Women's Enrichment Fund Mini-Grant Program** for her project, *Classroom*

Learning, Experiential Learning and Social Activism in the Women's Studies Program. These funds are from the ISU Foundation's Greater University Fund for Excellence.

Jean Parsons, Apparel, Educational Studies and Hospitality Management, was selected to receive a **\$5,000** fellowship from the **Iowa State Center for Excellence in the Arts and Humanities** for a research project, *Shape and Transformation: The Geometry of Apparel Design*.

Susan Wohlsdorf-Arendt, Apparel, Educational Studies and Hospitality Management, received a **\$1,000** award from the **Foodservice Systems Management Education Council** for her study, *Leadership Behaviors of the On-Site Foodservice Directors*.

Catherine Strohbehn, Susan Arendt and Tami Kuhn, Apparel, Educational Studies and Hospitality Management, received a **\$500 TEACH Grant** from the **Iowa State Center for Excellence in Learning and Teaching** for promoting faculty development efforts with the project, *What is Podcasting and How Can Faculty Use It to Enhance Learning?*

College of Human Sciences Seed Grants

Jennifer Margrett, Human Development and Family Studies, **Greg Welk**, Health and Human Performance, and Sarah Nusser, Center for Survey Statistics and Methodology, received a **\$9,978** award from the **College of Human Sciences Intramural Seed Grant Program** for the project, *Individual Variability and Spousal Synchronicity in Cognition, Affect and Health: Conducting Multiple Daily Assessments*.

Craig Gundersen (PI), Cynthia Fletcher, Human Development and Family Studies,

Continued on page 6

Continued from page 5

Michael D. Larsen and Sarah Nusser, Statistics, received a **\$15,000** award from the **College of Human Sciences Bioeconomy Seed Grant Program** for the project, *Impact of Biorenewable Technologies on Communities Across Iowa*.

Byron Brehm-Stecher (PI), Food Science and Human Nutrition, and Daniel Appella, National Institutes of Health, received a **\$4,000 College of Human Sciences Seed Grant for Untenured Faculty** for the research project, *Evaluation of Trans-Chyclopentane Peptide Nucleic Acid Probes for Specific Detection of Listeria monocytogenes*.

Ana-Paula Correia, Curriculum and Instruction and **Elena Karpova**, Apparel, Educational Studies and Hospitality Management received a **\$4,000 College of Human Sciences Seed Grant for Untenured Faculty** for the research project, *Examination of Processes and Performance in Virtual Teams Working in Iowa-Based Companies*

Jason Gillett (PI), **Timothy Derrick**, and **Catherine Stevermer**, Health and Human Performance, and Philip Dixon, Statistics, received a **\$3,985 College of Human Sciences Seed Grant for Untenured Faculty** for the research project, *Foot Placement Optimization for Older Adults with Knee Osteoarthritis during Sit-to-stand at Different Seat Heights*

Lori Patton, Educational Leadership and Policy Studies, received a **\$4,000 College of Human Sciences Seed Grant for Untenured Faculty** for her research project, *The Human Consequences of Proposition 209: Black Student Experiences at UCLA*.

R Evely Gildersleeve, Educational Leadership and Policy Studies, received a **\$3,893 College of Human Sciences Seed Grant for Untenured Faculty** for his research project, *Developing College-going*

Literacy: Migrant Families, Technology and Educational Opportunity.

Amy Welch (PI) and **Panteleimon Ekkekakis**, Health and Human Performance, received a **\$4,000 College of Human Sciences Seed Grant for Untenured Faculty** for their research project, *Taking a First Peek into the Frontal Cortex During Exercise Using Near Infrared Spectroscopy: A Comparison of the Transient Hypofrontality and Dual-mode Theories*.

ISU Miller Faculty Fellowships

Corey Drake and **Lori Norton-Meier**, Curriculum and Instruction, received an **Iowa State Miller Faculty Fellowship**, for their project, *Using Family and Community Resources to Teach Elementary Literacy and Mathematics: A Proposal to Modify CI 377 and CI 448*.

Jenna Seymour, **Corey Drake**, **Beth Herbel-Eisenmann**, **Alejandro Andreotti**, **Joanne Olson**, **Mike Clough**, Curriculum and Instruction, Heather Thompson and Gail Johnston, Mathematics, received an **Iowa State Miller Faculty Fellowship** for their project, *Connecting Mathematics, Mathematics Teaching, and Science Teaching*.

Dale Niederhauser, Curriculum and Instruction, Craig Ogilvie, Physics and Astronomy, Sarah Ryan and John Jackman, Industrial and Manufacturing Systems Engineering, received an **Iowa State Miller Faculty Fellowship** for their project, *Assessing Problem Solving Skill Development in Science and Engineering*.

Maurice MacDonald, Human Development and Family Studies, Kay Palan, Marketing, Sue Ravenscroft, Accounting, Virginia Blackburn and Paula Morrow, Management, and Karen Terpstra, Business Student Services, received an

Continued on page 7

Continued from page 6

Iowa State Miller Faculty Fellowship for their project, *Enhancing Student Awareness of Consumer Credit Dangers: Which Approach is Most Effective?*

Other Recognitions

Elena Karpova, Textiles and Clothing, was honored for co-writing the **Best Research Paper** in the professional development category at the annual meeting of the **International Textile and Apparel Association**.

Diane Birt, Food Science and Human Nutrition, received the **John Doull Medal** from the Central States chapter of the **Society of Toxicology**, in recognition of her outstanding contributions that enhance human, animal, and environmental health through science.

Carl Smith, Curriculum and Instruction, was recognized by Iowa Lieutenant Governor Sally Pederson for his contributions while serving on the State of Iowa's **Mental Health, Mental Retardation, Developmental Disabilities, Brain Injury Commission**.

Laura Rendón, Educational Leadership and Policy Studies, was selected to serve on the Advisory Board of the **National Center for Postsecondary Research**. The center will be established with a new \$9.8 million grant from the Institute of Education Sciences of the U.S. Department of Education.

Mary Yearns, Human Development and Family Studies, was chair of the multi-state committee that created the *House Handbook*. The handbook, which provides consumer guidelines for building or remodeling a home, received a **blue ribbon** in the Educational Aids Awards competition of the **American Society of Agricultural and Biological Engineers**.

Graduate Students **Tony Jung**, Human Development and Family Studies, **Catherine Stevermer**, Health and Human Performance, **Cynthia Garrety**, Curriculum and Instruction, and **Keila Tyner**, Apparel Educational Studies and Hospitality Management, were among 13 students receiving a **Fall 2006 Iowa State Graduate College Teaching Excellence Award**.

Graduate Student **George Randall**, Human Development and Family Studies, was among 23 students to receive a **Fall 2006 Iowa State Graduate College Research Excellence Award**.

Correction:

The May 2006 edition of *Faculty News* incorrectly listed the title of a 2006 CHS Intramural Seed Grant proposal to the wrong principal investigators. The proposal, *The Socioacademic Identity Formation of Latinos in Demographically Transitioning to Heartland Communities: Articulating a Collaborative Research Agenda*, was submitted by Katherine Bruna Richardson, Curriculum and Instruction.

Anna-Paula Correia, Curriculum and Instruction and Elena Karpova, Apparel, Educational Studies and Hospitality Management, received a **\$10,000 CHS Intramural Seed Grant** award in 2006 for their proposal, *Examination of the Relationship between Levels of Trust and Performance in Virtual and Blended Learning Teams*.

Upcoming Dates and Events

- **February 23, 2007—Computation Advisory Committee (CAC) grant proposals** due to CHS Dean's office. http://www.public.iastate.edu/~cac/Proposal%20and%20Awards/2007-008/CAC_RFP_2007.pdf.
- **February 26, 2007—University Award nominations** due to Provost Office.
- **February 28, 2007—Making EASE a Breeze**, 10 am to noon, 1155 ASB. To register for this training go to AccessPlus HRS Training at the Employee tab.
- **March 1, 2007—Nominations for the Karas Award for Outstanding Dissertation in the Behavioral Sciences** due to Graduate College. <http://www.grad-college.iastate.edu/awards/awards.html>.
- **March 1, 2007—Nominations for the Zaffarano Prize for Graduate Student Research** due to Graduate College. <http://www.grad-college.iastate.edu/awards/awards.html>.
- **March 5, 2007—Human Sciences College award nominations** due to CHS Dean's office.
- **March 5, 2007—University Research Grant Development Awards for New Faculty** proposals due to the CHS Dean's office. <http://www.vpresearch.iastate.edu/guidelines/researchgrantdev.html>.
- **March 9, 2007—Bailey Research Career Development Award proposals** due to the CHS dean's office. For more information go to <http://www.vpresearch.iastate.edu/guidelines/bailey.html>.
- **March 23-24, 2007—Ethical Considerations in a Market-Driven University** ISU Faculty Conference. For more information go to <http://www.hs.iastate.edu/news/announce-new/2007/facspringconf.html>.
- **March 27, 2007—Spring 2007 Research Excellence Award** and **Spring 2007 Teaching Excellence Award nominations for graduate students** due to Graduate College. <http://www.grad-college.iastate.edu/awards/awards.html>.
- **March 30, 2007—College of Human Sciences Program Initiatives proposals** due to CHS dean's office. For more information go to <http://www.hs.iastate.edu/facstaff/> and scroll down *Grants/Funding*.
- **March 30, 2007—College of Human Sciences Teaching Innovation Initiatives proposals** due to CHS dean's office. For more information go to <http://www.hs.iastate.edu/facstaff/> and scroll down *Grants/Funding*.
- **April 25, 2007—How to Know if Expenses are Allowable**, 10 am to noon, 1155 ASB. To register for this training go to AccessPlus HRS Training at the Employee tab.
- **April 27, 2007—Regional Summit: Higher Education and Diversity**, 8 am-3 pm, Memorial Union. To register go to <http://www.ucs.iastate.edu/mnet/diversity/home.html>.

Please forward any faculty awards and recognitions received in your department so we can share them with the entire College of Human Sciences.

Thomas Andre
tandre@iastate.edu
E262 Lagomarcino
Ames, IA 50011-3191
515-294-7804