Comparative Longevity: From Cells to Societies
Friday, September 23, 2011  1:15 - 5:00 pm
Dean’s Auditorium, Pfendler Hall - Preregistration is required.

Aging and senescence occur at different rates between and within species. The quest for healthy aging involves many factors, including biological, psychosocial, environmental and demographic processes. This symposium features eminent scholars in the biology of aging and the demography of longevity to examine aging in different species and across cultures. The comparative lens for studying aging reveals new discoveries about biological risk and adaptation. An integrative discussion with Daniel K. Mroczek, PhD, Professor of Human Development and Family Studies, and David J. Waters, DVM, PhD, Professor of Veterinary Clinical Sciences and Associate Director, Center on Aging and the Life Course, Purdue University will follow the presentations. The symposium will close with a poster session and reception. Register online at Purdue Conferences.

Methusaleh’s Zoo: The Biology of Exceptional Longevity
Steven N. Austad, PhD, Professor in the Department of Cellular and Structural Biology and the Barshop Institute for Longevity & Aging Studies at the University of Texas Health Science Center, San Antonio

Trends in U.S. Longevity: A Global Perspective
Eileen Crimmins, PhD, AARP Professor of Gerontology at the University of California, Director of the USC/UCLA Center on Biodemography and Population Health

Upcoming CALC Colloquia -- 12:30 pm on Fridays
10/14 Hanley Hall 136
Ken Ferraro, PhD, Distinguished Professor of Sociology and Director, CALC Childhoo Misfortune and Disease in Middle and Later Life: Early Origins of Comorbidity?

11/11 Matthews 111
Elizabeth A. Strickland, PhD, Associate Professor of Speech, Language, and Hearing Sciences Behavioral and Modeling Estimates of How the Auditory System Adjusts to Background Noise: Implications for Aging

12/2 Matthews 111
Juyeon Kim, PhD, Post-Doctoral Fellow, National Opinion Research Center, University of Chicago

Reservations are required 36 hours in advance. Email Ann Howell at howelle@purdue.edu to reserve your spot.
CALC Welcomes you to Hanley Hall!
The Center on Aging and the Life Course has moved into the beautiful brand new Hanley Hall on the west end of the West Lafayette campus. Our spacious, light filled suite on the southwest corner of the third floor gives the Center a whole new look and a whole new outlook! We have gerontology graduate students from sociology, family studies, statistics, health & kinesiology, interdepartmental nutrition, and consumer sciences and retailing all working in the same proximity, sharing offices and ideas about aging research from the perspective of their home disciplines. Students writing their dissertations share a special office.

You are invited
CALC Open House
310 Hanley Hall
Friday, October 14
1:30 pm - 2:30 pm
(after Dr. Ferraro’s colloquium)

Charlie Kim, Website Support
Anne Howell, Secretary

See us on facebook, linking research and people.
www.purdue.edu/aging
Ann Howell, Secretary
John Yamich, Website Support


Anne Smith, Christine M. Weber-Fox, Lisa A. Goffman and Howard N. Zelaznik, speech, language and hearing sciences, consumer and family sciences, health and kinesiology, from PHS-NIH National Institute on Aging and other Communication Disorders. “Physiological Correlates of Stuttering.” $516,433.


Connie M. Weaver, George S. Jackson, Elsa M. Janle, and M. D. McCabe, George P; nutrition science, physics, statistics, from National Institutes of Health, “Bridge Funding for Purdue/UAB Botanicals Center for Age Related Diseases.” $292,859.

Connie M. Weaver and Cindy H. Nakatsu, nutrition science, agronomy, from Tate & Lyle Begins Americas, Inc., “SCf and Calcium Utilization in Adolescents.” $344,932.

Connie M. Weaver, nutrition science, from Mount Sinai School of Medicine, “Protective Roles of Grape Derived Polyphenols in Alzheimer’s Disease.” $387,255.

Connie M. Weaver, nutrition science, from Mount Sinai School of Medicine, “Protective Roles of Grape Derived Polyphenols in Alzheimer’s Disease; Amendment 1.” $9,877.

Connie M. Weaver, Mario Ferruzzi, Elsa M. Janle, and M. D. McCabe, nutrition science, food science, chemistry, from Mount Sinai School of Medicine, “Protective Roles of Grape-Derived Polyphenols in Alzheimer’s Disease; Amendment 1.” $111,350.

Betty A. Bagus, Maria I. Marshall, Bruce R. Hamaker, John H. Lamkes, Vahid Motevalli, S. S. Nielsen and Sharon R. Williams; food science, agricultural economics, agricultural and biological engineering, mechanical engineering technology, anthropology, from Purdue University, “Development of Markets for Local Food Crop to Enhance Incomes and Improve Food Security for Smallholder Farmers in East Africa.” $24,479.

Sharon R. Williams, anthropology, from Purdue Research Foundation, Office of the Vice President for Research (OVPR), “Are Villages the Future for Aging Communities: A Comparative Analysis of Health Aging and Social Support among Intentional Communities of Older Adults in the US.” $17,059.


Wei Zeng and Yulia N. Pushkar, health sciences, physics, from PHS-NIH National Institute of Environmental Health Sciences, “Choroid Plexus as a Target in Metal-Induced Neurotoxicity.” $311,985.

Yulia N. Pushkar and Wei Zeng, physics, health sciences, from Showalter Trust, “Analysis of Molecular Mechanisms of Adult Neurogenesis and Brain Repair by Synchroton Based Biomedical Imaging and Spectroscopy.” $66,000.

Wei Zeng, health sciences from Columbia University, “Environmental Epidemiology of Essential Tremor; Amendment 3.” $66,190.

Wei Zeng and Yulia N. Pushkar, health sciences, from PHS-NIH National Institute of Environmental Health Science, “Choroid Plexus as a Target in Metal-Induced Neurotoxicity.” $31,198.
Lynn Fellowships 2011-2012

The Graduate School has allocated funding for two Lynn Fellowships for interdisciplinary studies in the Gerontology Program. Used as a recruitment tool for promising students in the dual-title PhD program, CALC has awarded two fellowships for the upcoming school year to:

- Britney Muir
  Health & Kinesiology
  Dr. Shirley Rietdyk, advisor
- Ranjini Mohan
  Speech, Language, and Hearing Sciences
  Dr. Christine Weber-Fox, advisor

We look forward to working with these new gerontology students and welcome them to the Center on Aging and the Life Course.

Chang H. Kim, Ourania M. Andrisani, and Harm HogenEsch, comparative pathobiology, basic medical science, veterinary medicine-administration, from PHS-NIH National Institute of Allergy and Infectious Diseases, “FoxP3+ Regulatory T Cells of Mucosal Tissues.” $298,319.


Harm HogenEsch, School of Veterinary Medicine-Administration, from Faxform, LLC, “Testing for Streptococcus Pyogenes Vaccine Candidates.” $9,422.

Chang H. Kim, Ourania M. Andrisani, and Harm HogenEsch, comparative pathobiology, basic medical science, veterinary medicine-administration, from PHS-NIH National Institute of Allergy and Infectious Diseases, “FoxP3+ Regulatory T Cells of Mucosal Tissues.” $29,833.

Jessica E. Huber, speech, language and hearing science, from PHS-NIH National Institute on Deafness and Other Communication Disorders, “Use of External Cuesing to Treat Hypophonia in Parkinson’s Disease.” $330,500.

Jessica E. Huber, speech, language and hearing sciences, from Purdue Research Foundation, Office of the Vice President for Research (OVPR), “Enhancing Speech Naturalness Using Respiratory Treatment in Parkinson’s Disease.” $17,059.

Richard D. Mattes, Mario Ferruzzi, and George P. McCabe, nutrition science, food science, statistics, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, “Pre-ingestive Influences on Solid and Fluid Food Intake in Lean and Obese Adults.” $403,506.

Richard D. Mattes, Mario Ferruzzi, and George P. McCabe, foods 7 nutrition, food science, statistics, from PHS-NIH National Institute of Diabetes and Digestive and Kidney Diseases, “Pre-ingestive Influences on Solid and Fluid Food Intake in Lean and Obese Adults.” $27,421.


Amber L. Pond and Gregory H. Heckerman, basic medical science, medicinal chemistry and molecular pharmacology, from PHS-NIH National Institute of Arthritis and Musculoskeletal and Skin Diseases, “Role of Merg1 a K+ Channel in the Onset of Skeletal Muscle Atrophy.” $73,200.

Fred E. Regnier, chemistry, from Indiana University, “Amendment #2 to MMRF (Multiple Myeloma Research Foundation), Year 3 Incremental Funding.” $40,345.

Memorandum of Understanding between Yonsei University and CALC at Purdue

On March 23, 2010, the Research Team on Healthy Aging, Yonsei University, and the Center on Aging and the Life Course, Purdue University, signed a memorandum of understanding and agreement, to encourage exchanges of research activities between the two parties and to enhance collectively research on health and aging in both the United States and South Korea.

The International Symposium on Successful Aging was the first conference since the memorandum, and both parties will take turns hosting an annual research workshop on health and aging. Graduate students are encouraged to pursue short-term internships at the partner university.

In April 2011, Lindsay Rinaldo, Patricia Morton, and Seoyoun Kim—students in the dual-title PhD program—traveled to Seoul, Korea to present at the International Conference on Successful Aging. The conference was a two-day seminar held at Yonsei University featuring presentations on a wide range of topics related to successful aging. Notable speakers included Ken Ferraro (Purdue University), Linda Waite (University of Chicago), and Craig Wilcox (Okinawa International University), in addition to academics and professionals who represented universities in the United States, Korea, Japan, China, and Taiwan.

Speaking from the perspective of the graduate students, this was a remarkable opportunity for us all. We can remember being asked by Ken Ferraro to accompany him to the conference and feeling a tremendous sense of honor. This would be our first international conference and, moreover, an incredible opportunity to represent not only Purdue University, but also the Center on Aging and the Life Course. On the plane to Seoul, the 13-hour flight was made easier by our anticipation of the conference and the city of Seoul. Of course, upon arriving in Seoul, neither disappointed. We were quickly immersed in the culture—from the cuisine to the history and architecture—and the conference provided the opportunity to share our research with an international audience, as well as hear others present on aging-related topics from multiple perspectives and diverse fields of study. We gained insight into how to think about successful or optimal aging from a multi-dimensional perspective, as our knowledge was broadened by research on health over the life course, biomarkers of successful aging, and the importance of the cultural context, as demonstrated by the cross-cultural differences in aging older adults' social relationships within the family and the heterogeneity in mortality rates. In addition to contributing to our own understanding of successful aging, the conference enabled us to meet others in the field of gerontology. Most memorably, at the end of each day, all conference participants shared in an evening meal outside the conference venue. This time was used to reflect on the events of the day, network, and simply learn more about each other. As faculty and students sat together at the table passing dishes to one another, we used this time to reestablish relationships and to enhance collectively research on health and aging in both the United States and South Korea.
Ann Howell - for example

The Center on Aging and the Life Course wants to highlight examples of optimal aging, and the obvious first candidate sits at the front desk of the Center. No, she’s not retiring (again) from Purdue anytime soon, rather Mrs. Ann Howell is a vital part of CALC, supporting and enabling our mission in myriad ways. When asked to describe Ann, various students, faculty, and staff gave her high praise.

Ann never ceases to amaze me, both as a secretary and as a human being. She is as reliable as a fine Swiss watch—religiously arriving at 7:50am—and ready to work. Her copy-editing skills are outstanding, and she is willing to take on new challenges. Each of us learns from Ann; and she is the perfect fit for CALC.” Ken Ferraro, Director

"Ann Howell is a jewel. Her work ethic, moral values, and positive attitude shine as an example of professionalism. Ann has the courage to meet the challenges of change, and embraces opportunities to learn new things. Ann is also a fine person. Whether she is contributing to the alto section in the church choir, driving cross country to visit her children, or tending someone’s pet, Ann’s genuine care and concern for others shines in everything she does. Her sunny disposition and sense of humor make it so much fun to work with Ann. Good deal!” Peggy Favorite

"Ann never fails to amaze me. She is one of the very best role models for aging I have ever had the pleasure to know. Few people have her zest for life, keen insight, determination, and wry sense of humor—Ann Howell is a rose with thorns! She is a role model for excellent aging and a meaningful life course.” Gerry Hyner

CALC faculty associates’ research awards


Wayne W. Campbell, nutrition science, from U.S. Department of Agriculture, “Interdepartmental Nutrition Program at Purdue Fellowship Application in the Discipline of Human Nutrition and the Area of Obesity and Diet.” $234,000.

Wayne W. Campbell, nutrition science, from National Cattlemen’s Beef Association, “Increased Protein Intake from Predominantly Meat—vs. Soy Protein/Pulse-Based Foods: Effects on Daily and Postprandial Appetite During Energy Restriction-Induced Weight Loss (Adipogenesis).” $10,000.

Wayne W. Campbell, Ulrike Dydak, Arthur D. Rose, and Thomas M. Talavage, nutrition science, health sciences, biological sciences, electrical and computer engineering, from American Egg Board, “Effect of Increased, Egg-Based Protein Intake on Muscle Composition, Metabolic Health and Systemic Inflammation in Obese Older Adults.” $164,855.

Kee Hong Kim, Ji-Xin Cheng, and Wayne W. Campbell, food science, biomedical engineering, nutrition science, from Showalter Trust, “Role of Glycated Dietary Proteins in Lipid Dysfunction of Adipose Tissue and Muscle in Aging.” $75,000.

John A. Christian, comparative pathology, from Wyeth Ayerst Pharmaceuticals, “Cytology Resource Center.” $1,600.


Nancy K. Edwards, nursing, from Health Resources and Services Administration, “Rural Advanced Practice Nursing: Post BSN to NS/DNP” $34,581.


Stephanie J. Elliott, Elisa Bertino and David Ebert, industrial technology, computer science, electrical and computer engineering, from U. S. Department of Homeland Security, “Biometric Uniqueness and Permanence Analysis.” A Discovery Park Award – Cyber Center. $100,000.


Paul W. Snyder, and James C. Fleet, comparative pathology, nutrition science, from Abbott Laboratories, “Pathology Fellowship.” $75,000.


Alan M. Friedman, biological sciences, from National Science Foundation, “REU Supplement Funding III: Small: Collaborative Research: Analysis of Multi-Dimensional Protein Design Spaces with Pareto Optimization of Experimental Designs.” Discovery Park Award – Bindley Bioscience Center. $7,000.

Jeffrey M. Haddad, health and kinesiology, from Purdue Research Foundation: Office of the Vice President for Research (OVPR) “Relationship between Balance Cognition and Manual Control in Older Adults.” $17,059.