Kines Grad Connection

Kinesiology Graduate Program Newsletter — April 2007, vol. 1, issue 2

From the Chair…

Welcome to the second edition of "Kines Grad Connection." We received a great deal of positive feedback about the first graduate newsletter. Thank you for taking time to provide your comments. I also want to make sure that Carrie Braun, Graduate Program Coordinator, and Maple Le, student assistant, get the majority of credit as they are responsible for almost all the work and creative design of the newsletter. They put a great deal of effort and thought into its creation. In this edition, we are highlighting graduate student publications, awards, and our 2007 graduating class. We also have a feature on one of our Kinesiology Alum, Dr. Thomas Templin.

We would like to build on the Alumni Update section of the newsletter, but need your help. Please contact Carrie Braun or me if you have anything you would like us to feature in the next newsletter. We hope to hear from you soon.

Have a great summer!

Sincerely,

Daniel P. Ferris, Ph.D.
Kinesiology Graduate Chair

In This Issue:

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Winter 2007 Presentations

Kinesiology Graduate Students lead very busy and productive lives. They have been active in their research, teaching and presentations over the winter semester, and the summer will be even busier. Information below highlights some of their breaks from classes as they have presented their research results around the country.

Joaquin Anguera, Ph.D. Candidate
Conference: Neural Control of Movement Society
Location: Seville, Spain
Dates: 3/23/2007-4/3/2007
Title of presentation: "Contributions of spatial working memory to visuomotor adaptation"

Meghann Lloyd, Ph.D. Candidate
Conference: Society for Research in Child Development
Location: Boston, MA
Dates: 3/29/07-4/1/2007
Title of presentation: "Motor skills of preschool age children with autism spectrum disorder"

Hyun Seok Hwang, Ph.D. Candidate
Conference: Experimental Biology 2007
Location: Washington DC
Dates: 4/28/2007-5/02/2007
Title of presentation: "Hawthorn alters remodeling and ameliorates LV dysfunction in pressure overload-induced cardiac hypertrophy"

Beth Smith, Ph.D. Candidate
Conference: APTA Combined Sections Meeting
Location: Boston, MA
Dates: 2/14/2007-2/18/2007
Title of presentation: "Effects of smaller and larger obstacles on gait parameters of adults with and without Down syndrome"

2006 Doctoral Student Publications

Chia-Lin Chang, Candidate—Chang C-L, Kubo M, Buzzi U, Ulrich, BD. (2006) Early changes in muscle activation patterns of toddlers during walking. *Infant Behavior and Development*, 29:175-188.

Antoinette Domingo, Candidate—Sawicki GS, Domingo A, Ferris DP (2006) The effects of powered ankle foot orthoses on muscle activation and joint kinematics during walking by individuals with incomplete spinal cord injury. *Journal of Neuroengineering and Rehabilitation*, 3(1):3.

Katsu Funai, Candidate—Funai K, Parkington JD, Carambula S, Fielding RA. (2006) Age associated decrease in contraction induced activation of downstream targets of Akt/mTOR signaling in skeletal muscle. *American Journal of Physiology: Regulatory Integrative and Comparative Physiology*. 290:R1080-R1086.

Dann Goble, Candidate—Goble DJ, Lewis CA, Brown SH. (2006). Upper limb asymmetries in the utilization of proprioceptive feedback. *Experimental Brain Research* 168:307-311.

Goble DJ. (2006). The potential for utilizing inter-limb coupling in the rehabilitation of motor disability due to unilateral brain injury. *Disability and Rehabilitation* 28(18): 1103-1108.

Chris Herman, Candidate—Herman CW, Musich S, Lu C, Sill S, Young J, Edington DW. (2006). Effectiveness of an incentive-based online physical activity program on employee health status. *Journal of Occupational and Environmental Medicine*, 48(9):889-95.

Hyun Seok Hwang, Candidate-—Cirrincione GM, Boluyt MO, Hwang HS, Bleske BE. (2006) 3-Hydroxy-3-Methyl-Glutaryl Coenzyme A Reductase Inhibition and Extracellular Matrix Gene Expression in the Pressure-Overloaded Rat Heart. Journal of Cardiovascular Pharmacology 47:521-530.

Pei Chun Kao, Candidate—Ferris DP, Huang HJ, Kao PC. (2006) Moving the arms to activate the legs. *Exercise and Sport Sciences Reviews*, 34(3):113-20.

Nick Knuth , Candidate—Knuth ND, Horowitz JF. (2006) The elevation of ingested lipids within plasma chylomicrons is prolonged in men compared with women. *Journal of Nutrition*, 136(6):1498-503

Meghann Lloyd, Candidate—Lloyd M, Reid G, Bouffard M. (2006) Self-regulation of sport specific and educational problem-solving tasks by boys with and without DCD. *Adapted Physical Activity Quarterly*, 23(4):370-389

Julia Looper, Candidate—Looper J, Wu J, Angulo-Barroso R, Ulrich DA, Ulrich BD. (2006) Changes in step variability of new walkers with typical development and with Down syndrome. *Journal of Motor Behavior*, 38 (5):367-372

Greg Sawicki, Candidate—Sawicki GS, Domingo A, Ferris DP. (2006) The effects of powered ankle-food orthoses on joint kinematics and muscle activation during walking in individuals with incomplete spinal cord injury, *Journal of Neuroengineering and Rehabilitation*, 3(1):3

Alyssa Schultz, Candidate—Yen L, Schultz AB, Schnueringer E, Edington DW. (2006) Financial costs due to excess health risks among active employees of a utility company, *Journal of Occupational and Environmental Medicin*e, 48(9):896-905.

Burton WN, Chen C-Y, Schultz AB, Conti DJ, Pransky G, Edington DW. (2006) Worker productivity loss associated with arthritis. *Disease Management*, 9(3):131-143.

Burton WN, Chen C-Y, Conti DJ, Schultz AB, Edington DW. (2006) The association between health risk change and presenteeism change. *Journal of Occupational and Environmental Medicine*, 48(3):252-263.

Yen, L, Schultz AB, McDonald T, Champagne L, Edington DW. (2006) Participation in an employer-sponsored wellness program before and after retirement. *American Journal of Health Behavior*, 30(1):27-38.

Graduate Student Awards

Rackham Pre-Doctoral Fellowship

Antoinette Domingo, received a Rackham Pre-doctoral Award for 2007-08. This award is a prestigious one-year fellowship allowing doctoral students to focus on their dissertations. Antoinette obtained her undergraduate degree in Human Biodynamics from the University of California, Berkeley, and then completed a master's degree in Physical Therapy at the Mayo School of Health Sciences. She came to the University of Michigan in 2003, to obtain her doctoral degree and work in the Human Neuromechanics Laboratory. Antoinette's dissertation research focuses on testing the effects of physical guidance in learning novel motor skills. Her research will provide important insight for designing more effective strategies to improve mobility after neurological injury.

Lucile M. Swift Honor Award

Antoinette was also awarded the Lucile M. Swift Honor Award for 2006-07. Lucile M. Swift, BS '39, created this award to assist one senior and one graduate student in Kinesiology who demonstrate professional promise, and superior scholarship.

Dann Goble, Candidate

Stanley S. Kemp Award

Friends of the late Stanley S. Kemp, BS '67, football official , business owner, and civic leader established the Stan Kemp Scholarship in 1994. It is designated for Kinesiology students who display Mr. Kemps' high character, leadership, scholarship, integrity and idealism. Recipients of this year's 2007 award were Dann Goble (left) and Diane Adamo (right).

Diane Adamo, Candidate

Beth Smith, Candidate

Shirley Cooper International Travel Award

Beth Crane and Beth Smith were awarded Shirley Cooper Graduate Student Travel Awards. This award is intended to support international travel. These funds were donated by Mr. and Mrs. Thomas Templin, and Judith Bischoff, in honor of Dr. Shirley Cooper, Professor Emeritus in Kinesiology.

Beth Crane, Pre-Candidate

Paul A. Hunsicker Memorial Award

Nick Knuth received the Paul A. Hunsicker Memorial Award. This award honors the memory of Professor Paul Hunsicker, Chair of the Department of Physical Education for Men, 1958-70 and Director of the Department of Physical Education, 1970-76. The award recognizes students who have demonstrated superior scholarship and professional zeal and promise.

Updates

ALUMNI UPDATE….

Tom Templin, Ph.D. 1978

Dr. Thomas J. Templin is Professor of Health and Kinesiology and Professor of Education at Purdue University. He has been a member of the Purdue faculty since 1977 and an administrator since 1988. Dr. Templin has dedicated his professional career to the study of teachers and improvement of physical education in our schools and universities through a reflective approach to teaching physical activity — an approach that can clarify values, personalize the teaching process, and promote a satisfying and healthier lifestyle for participants. He is well known as an author and editor/reviewer of journal publications and books as well as a presenter at numerous national and international meetings. Among the various professional organizations he regularly presents at are the American Alliance of Health, Physical Education, Recreation and Dance (AAHPERD) and the American Education Research Association (AERA). He just completed a three-year term as President of National Association for Sport and Physical Education (NASPE), the largest association of AAHPERD. NASPE represents 20,000 physical education and sport professionals around the country.

Professor Templin is married to Sara Jane Templin (M.S., 1975) and has two children, Kate and Andrew, who both reside and work in Chicago. He is a golf enthusiast that enjoys both playing and reading about the history of the game. He serves as a consultant to the Professional Golfer's Association of American and its Golf for Business and Life Program.

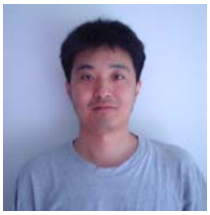
Doctoral student Joaquin Anguera now student member of the Life Program

Joaquin Anguera is now an official student member of the LIFE program. The LIFE program is "The Life Course: Evolutionary and Ontogenetic Dynamics", a collaborative graduate program between Max Planck Institute for Human Development, Berlin; Humboldt University, Berlin; Free University of Berlin; The University of Michigan; and the University of Virginia. Joaquin's advisor, Dr. Rachael Seidler, has been a faculty member of the program since July 2003. Joaquin and Dr. Seidler will travel to Berlin this May to take part in the spring LIFE academy. There are two academies each year, where faculty and graduate students from all of the schools interact and present their research.

Dissertation Defense Calendar

Date	Time	Name	Title	Advisor	Locations
4/16/2007	9:00 am	Nick Knuth	Acute metabolic responses to meals containing various amounts of carbo-hydrate and fat	Jeff Horowitz, Ph.D.	4th Floor Rackham
4/24/2007	8:45 am	Hyun Seok Hwang	The effects of aldosterone antagonism and hawthorn on pathological remodeling of the heart	Marvin Boluyt, Ph.D.	4th Floor Rackham
5/14/2007	9:30 am	Chia Lin Chang	The impacts of muscle strength, body composition, and lateral stabilization on walking in people with spina bifida	Beverly Ulrich, Ph.D.	Bickner Auditorium
5/30/2007 tentatively	TBA	Gerry Conti	Grasp force control in young and eld-erly adults	Susan Brown, Ph.D.	4th Floor Rackham
6/20/2007 tentatively	TBA	Diane Adamo	The influence of age and physical activity on the ability to use position and force feedback	Susan Brown, Ph.D.	4th Floor Rackham
7/6/2007	TBA	Daniel Goble	Upper limb asymmetries in the utilization of movement-related sensory feedback	Susan Brown, Ph.D.	4th Floor Rackham
8/10/2007	2:30 pm	Greg Sawicki	The mechanics and energetics of walking with powered exoskeletons	Daniel Ferris, Ph.D.	4th Floor Rackham
TBA	TBA	Elizabeth Wuorinen	Detection of exercise energy expenditure	Katarina Borer, Ph.D.	4th Floor Rackham

Winter 2007 Graduates



Hyun Seok Hwang, *PhD*

After graduation, Hyun Seok plans to continue his research as a postdoctoral fellow, either at the NIH or at another university. He intends to continue to pursue molecular mechanisms of heart adaptation to physiological and pathological stresses. His wife, Junghee Kim and his daughters, Yoongee (age 8) and Yoonmi (age 3) will accompany him in this new adventure.

Nicholas Knuth, *PhD*

Nick will hold a postdoctoral position at the National Institutes of Health, within the National Institute of Diabetes & Digestive & Kidney Diseases (NIDDK), in Bethesda, Maryland.

Spring/Summer 2007 Graduates

Diane Adamo, *PhD*

Diane has taken a postdoctoral position at the Institute of Gerontology at Wayne State University. She hopes to continue her studies on age related changes in sensorimotor performance.

Chia-Lin Chang,, *PhD*

Lin will be completing her dissertation in May. Lin is currently teaching Anatomy and Physiology for the nursing program at the University of Pittsburgh Medical Center (UPMC) and is actively interviewing for faculty positions.

Gerry Conti, *PhD*

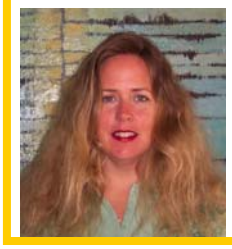
Gerry will continue as an Assistant Professor and Graduate Program Coordinator within the Department of Occupational Therapy at Wayne State University.

Daniel Goble, *PhD*

Dann plans to continue his studies on upper limb asymmetries in the utilization of sensory feedback at the postdoctoral level in Europe this fall. Following this position he intends to return to North America and take on a full time faculty position focusing on both research and teaching.

Greg Sawicki, *PhD*

Greg hopes to pursue postdoctoral research starting in Fall 2007 at Brown University. His goal is to explore the role of the tendon mechanics in altering movement dynamics during cyclic contractions. He will be using a combination of computational modeling and experimental animal techniques.



Elizabeth Wuorinen, *PhD*

Liz will continue as Assistant Professor in the School of Mathematics and Sciences, Dept. of Biology and Physical Education at Norwich University in Northfield, Vermont. Norwich is the oldest private military college in the nation. Liz will conduct research in the areas of exercise physiology and psychobiology. As always, she will continue being SuperMom to Stefan, Sienna and Guinnevere.

Master's Graduating Class of 2007

2007 Kinesiology Commencement Ceremony

Friday, April 27, 2007— 8:00 p.m.
Hill Auditorium
825 North University

Master of Arts

Nicholas Benson

Michael Carl

Jeffrey Kastl

Michal Knill

Jennifer Mandock

William Russo

Stacey Schwartz

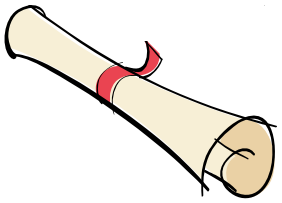
Georgina Webb

Ann Willard

Master of Science with Thesis

Cara Shrivastava

"The effect of fat ingestion on satiety: the role of the gastrointestinal tract"



Congratulations Class of 2007!

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"Kines Grad Connection" on the web – This issue is available on the web site of UM Kinesiology at www.kines.umich.edu.

Future information for "Kines Grad Connection" – If you would like to submit information to be published in future editions of "Kines Grad Connection", please email clbraun@umich.edu.

KINESIOLOGY

studying movement

For more information about a graduate degree in Kinesiology, please contact, Carrie Braun, clbraun@umich.edu, or visit www.kines.umich.edu