Krista Parent Named 2007 Oregon Superintendent of the Year

Krista Parent, South Lane School District superintendent, was recently named the 2007 Oregon Superintendent of the Year. Parent, an HP alumna (B.S. ’84), was cited for leading a turnaround in the Cottage Grove schools that produced dramatic improvements in student academic performance.

Among her many accomplishments as superintendent are a $5 million National Science Foundation grant awarded to the district for improving math instruction, a $1 million educational technology grant, and a $1 million 21st-Century Schools grant for after-school and summer programs.

Parent will represent Oregon and compete for the National Superintendent of the Year honors at the American Association of School Administrators National Conference in New Orleans on March 2. Kudos, Krista!
DEPARTMENT NEWS

Department Researchers Zero In on How the Body Regulates Its Response to Heat Stress

Associate Professor Christopher Minson and former graduate student Brett Yeh have isolated an elusive neurotransmitter pathway in the skin, a discovery that, if confirmed, would be a leap forward in understanding how temperature regulation occurs. Their work highlights the role of histamine during recovery from exercise and has positions at the University of Virginia and the Medical College of Georgia.

Pate is an exercise physiologist with interests in physical activity and physical fitness in children and the health implications of physical activity. He has published more than 170 scholarly papers and has authored or edited five books. His research has been supported by the National Institutes of Health, the U.S. Centers for Disease Control and Prevention, the American Heart Association, and several private foundations and corporations. He heads a research team that is currently supported by three grants from the National Institutes of Health. He coordinated the effort that lead to the development of the recommendation on physical activity and public health of the U.S. Centers for Disease Control and Prevention and the American College of Sports Medicine. He also served on the U.S. Dietary Guidelines Advisory Committee (2003–4), an Institute of Medicine panel that developed guidelines on prevention of childhood obesity.

Pate has served in several leadership positions with the American College of Sports Medicine, and was elected as that organization’s president for 1993–94. He is a past president of the National Coalition for Promoting Physical Activity, and he is an elected fellow of the American Academy of Kinesiology and Physical Education. In 1996 he received the Citation Award from the American College of Sports Medicine, and in 1999 received the Alliance Scholar Award of the American Alliance for Health, Physical Education, Recreation, and Dance. In 2004 he received the Distinguished Graduate Faculty Award from the American College of Sports Medicine.

In his research, Pate has studied the effects of exercise on body temperature, heart rate, and muscle metabolism. He has also explored the impact of exercise on sleep, cognition, and mood. His research has been supported by grants from the National Institutes of Health, the American Heart Association, and the American College of Sports Medicine.

Pate is also a member of the National Academy of Sciences, where he serves as a member of the Board on Health Sciences Policy. He has served on numerous committees and panels, including the National Research Council’s Committee on Sports and Physical Activity, and the American College of Sports Medicine’s Panel on Sports and Physical Activity.

In addition to his research, Pate is a sought-after speaker and has given numerous presentations at conferences and universities around the world. He has also written over 200 scientific publications on the topic of exercise and health.

Pate is dedicated to promoting physical activity and physical fitness in children and youth. He believes that physical activity is essential for a healthy lifestyle, and he advocates for policies and programs that encourage physical activity among children and youth.

In conclusion, Pate’s research has significantly advanced our understanding of the role of physical activity in promoting health and well-being. His work has had a substantial impact on the field of exercise science, and he continues to be a leader in the pursuit of scientific knowledge and evidence-based practice.

National Geographic Interviews Anatomy Professor about Sports Bra Research

The National Geographic Channel recently was on campus filming a segment for its new series: Man-Made, which explores processes used to produce everyday items. Since one of the items investigated was the brassiere, the film crew interviewed anatomy instructor Susan Verscheure about her prior biomechanical research on the sports bra. Her study concluded that “the typical sports bra you pull over your head is actually the least effective for breast stabilization,” said Verscheure. The interview is anticipated to be part of a National Geographic Channel program scheduled for spring 2007. Check your TV listings!

Department to Host Biomechanics Symposium

The Department of Human Physiology will host the third annual Northwest Biomechanics Symposium in May 2007. The symposium is dedicated to highlighting graduate student research conducted at universities throughout the northwest United States and western Canada. The meeting will take place on campus in the William W. Knight Law Center and will feature presentations of works from some 100 student-scholars.

Former Department Professors Honored at the University of Illinois

Two former UO HP faculty members, who are currently professors in kinesiology and community health at the University of Illinois, were recently honored for their teaching and scholarly activities. Kim Graber earned a Distinguished Teacher-Scholar Award for teaching excellence and faculty mentoring while Edward McAxley received honorable mention accolades for the Campus Award for Excellence in Guiding Undergraduate Research. Congratulations, Kim and Eddie!

Graduate Student and Alumni Receive Research Awards

Enasfer McCord, M.S. ’04, a current doctoral student in human physiology, received the environmental and Exercise Physiology Section Predoctoral Recognition Award from the American Physiological Society. McCord’s research on the role of histamine during recovery from exercise was judged an outstanding study with significant merit. Larry Holowatz, M.S. ’02, and Belinda Houghton, M.S. ’02, both from the University of Connecticut, were honored with the Arthritis Foundation, the Arthritis Foundation, and the Centers for Disease Control and Prevention. Karduna’s current research projects revolve around the general hypothesis that the majority of orthopedic shoulder disorders are related to dysfunction of the rotator cuff muscles and tendons. These intrinsic shoulder muscles play a key role in helping to stabilize the shoulder, and injury to them can result in common shoulder pathologies, such as impingement syndrome, rotator cuff tears, instability, occupational disorders and possibly osteoarthritis. Work in his laboratory focuses on the study of many key biomechanical parameters, such as scapular kinematics, glenohumeral translations, proprioception, and electromyography. Karduna comments: “The best part about working in this department is the freedom and support I have been given to develop both the educational and research programs that are of interest to me.”

Karduna is the director of the department’s Orthopaedic Biomechanics Laboratory and teaches biomechanics at the undergraduate and graduate levels. He also advises and coordinates a popular course for nonscience majors, Exercise and Performance.

FACULTY PROFILE: Andrew Karduna

Andrew Karduna was hired into the Department of Human Physiology as an assistant professor in 2002. Prior to his arrival in Eugene, Karduna was a faculty member in the Department of Physical Therapy and Rehabilitation Sciences at MCP Hahnemann School of Medicine (now Drexel University College of Medicine). Originally from New York, he did his undergraduate work at the Massachusetts Institute of Technology, receiving a B.S. in mechanical engineering. He earned the M.S. from Johns Hopkins University and the Ph.D. from the University of Pennsylvania, both in biomedical engineering.

For his doctoral work, Karduna developed a cadaver model to examine the biomechanics of a total shoulder arthroplasty system. Shortly after beginning work with physical therapists, he discovered that “the upper extremity was actually connected to the rest of the body,” says Karduna, and he modified his methodology to begin studying shoulder motion. He developed an approach to track dynamic scapular motion in vivo, which led to funding from the Foundation for Physical Therapy, the Whitaker Foundation, the Arthritis Foundation, and the Centers for Disease Control and Prevention.

Karduna’s current research projects revolve around the general hypothesis that the majority of orthopedic shoulder disorders are related to dysfunction of the rotator cuff muscles and tendons. These intrinsic shoulder muscles play a key role in helping to stabilize the shoulder, and injury to them can result in common shoulder pathologies, such as impingement syndrome, rotator cuff tears, instability, occupational disorders and possibly osteoarthritis. Work in his laboratory focuses on the study of many key biomechanical parameters, such as scapular kinematics, glenohumeral translations, proprioception, and electromyography. Karduna comments: “The best part about working in this department is the freedom and support I have been given to develop both the educational and research programs that are of interest to me.”

Karduna is the director of the department’s Orthopaedic Biomechanics Laboratory and teaches biomechanics at the undergraduate and graduate levels. He also advises and coordinates a popular course for nonscience majors, Exercise and Performance.

IN MEMORIAM: John Borchardt

Former professor of physical education, John Borchardt died of age-related causes on November 14, 2006, a few days shy of his ninetieth birthday.

Borchardt came to the university as a department faculty member in 1948 and retired in 1982. Born in Germany in 1916, he emigrated to the U.S. via Ellis Island at the age of 13. He served in the Army Air Corps in World War II and received a bachelor’s degree from the University of Wisconsin, La Crosse, where he was a gymnast, and a doctorate from the University of Iowa. In more than thirty-five years of service to Oregon, Borchardt taught thousands of students; he will be missed.
UNDERGRADUATE STUDENT PROFILE: Nana Dickson

Nana Dickson graduated with a bachelor of science degree in athletic training and health promotion from South Dakota State University in 2002. She then spent a short period of time working as an athletic trainer and cardiac rehabilitation intern before entering the master of science program in human physiology at the University of Oregon. Dickson comments, “During my visit to UO, I spoke with some students who had visited Malawi, southern Africa, and they told me about the amazing experience of not only helping people, but seeing firsthand the extreme poverty and conditions under which many people live in Africa.” Among Dickson’s goals is to work with other professionals to open schools in rural areas of Africa, “so that young people have better access to education.” She adds, “Part of my goal is to offer free dental care in rural Africa. Often, people silently hear with oral health problems because they don’t understand that oral health is just as important as overall physical health. Many Africans place a higher importance on medicine than dentistry, so there simply aren’t many dentists. Providing dental care there will allow me to reach out and help those who need it the most.” Dickson recently accepted an assistant professor position in the School of Health, Physical Education, and Recreation at the University of Oregon, which has allowed her to discover the type of teacher and researcher she aspires to be.”

Subject positioned for upper extremity proprioception test.

Jessica Meendering graduated with a bachelor of science degree in athletic training and health promotion from South Dakota State University in 2002. She then spent a short period of time working as an athletic trainer and cardiac rehabilitation intern before entering the master of science program in human physiology at the University of Oregon. Meendering comments, “I truly enjoyed the profession of athletic training and hope to always be involved in it at some level. However, I was really interested in learning more about human and exercise physiology, and the program at the University of Oregon was a great fit for me.”

Meendering came to the University of Oregon to work with Chris Minson. Her master’s degree work focused on the influence of the menstrual cycle on blood pressure regulation during orthostatic stress in women. After graduating with the M.S. in 2004, achieving a 4.0 GPA, she remained with the department to work toward the Ph.D. In her current doctoral studies, Meendering conducts research in the area of women’s health, and her dissertation examines the effects of synthetic female sex hormones on markers of cardiovascular health in young women. Her work is highly regarded, as she has been the lead or coauthor on three manuscripts published in top physiology and cardiology journals at Stanford School of Medicine. She also has presented at major scientific conferences across the U.S. “To date, most research in this area has focused on the effects of synthetic hormones on the cardiovascular health of postmenopausal women,” says Meendering. “I hope to gain a better understanding as to how different synthetic hormones in contraceptives affect markers of cardiovascular health in women age.”

In addition to research, Meendering has been very active teaching at Oregon and is in her fifth year serving as a graduate teaching fellow (GTF) for the human physiology and exercise physiology laboratories. Meendering’s talent and hard work as a student, researcher, and GTF have been recognized with a number of awards in the last year. She received research grants from the Eugene and Clarissa Evonuk Foundation, the American College of Sports Medicine, the Center for the Study of Women in Society, and the Northwest Health Foundation. In addition, Meendering was also the recipient of the Jane Brokhoff Scholarship, the Betty Foster McCue Scholarship, the Henry Howe Scholarship, and a general University of Oregon graduate student scholarship.

Meendering recently accepted an assistant professor position in the School of Health, Physical Education, and Recreation at the University of Nebraska at Omaha, starting in January 2006. There she will join four other University of Oregon alumni who are faculty members or postdoctoral students (Daniel Blanke, Ph.D. ’75; Nick Stergio, Ph.D. ’95; Shing-Jye Chen, Ph.D. ’05; and Ka Chun “Joseph” Siu, Ph.D. ’06).

“I am so thankful for the incredible research and teaching opportunities that I have been given during my time at the University of Oregon,” comments Meendering. “I have had amazing mentoring in both the laboratory and the classroom, which has allowed me to discover the type of teacher and researcher I aspire to be.”
2006 GRADUATING STUDENTS

Bachelor of Science Degree
Martin Christian Anderson, Eagle River, Alaska
Elspeth Alyson Anthony, Lake Oswego, Oregon
Kai Lee Baker, Bend, Oregon
Jacqueline Elizabeth Biner, Moraga, California
Kimberly Grace Bishop, Eugene, Oregon
Andrew James Boehm, Portland, Oregon
Kimmery Lynne Burford, Springfield, Oregon
Shannon Renee Bullard, Roseburg, Oregon
Alexander Matthew DeHaan, Salem, Oregon
Andrea Eileen Cronin, Saint Helens, Oregon
Jamie Marie Cowley, Eugene, Oregon
Laurel Ann Conley, Eugene, Oregon
Amanda Jo Fitzgustafson, Portland, Oregon
Patrick McManus, Ukiah, California
Tiffany Beatrice Francis, Portland, Oregon
Brandon Michael Holliday, Portland, Oregon
Kristin Healey, Portland, Oregon
Andrew Michael Hardy, Portland, Oregon
Elizabeth Hanselman, Portland, Oregon
Michael Andrew Hardy, Portland, Oregon
Kristin Kealey, Portland, Oregon
Brandon Michael Holiday, Beaverton, Oregon
Lillian Marie Dickens Hallock, Eugene, Oregon
Sarah Hamza, Tucson, Arizona
Lila Jo Hamik, Eugene, Oregon
Elizabeth Harms, Portland, Oregon
David Michael Hart, Portland, Oregon
Jessica Stanek, Portland, Oregon
Kenmore, Washington
Samantha Matas, Portland, Oregon
Sarah Spencer Kennedy, Springfield, Oregon
Nicole Lynn Lien, Silverton, Oregon
Kristin Ashley Lindquist, Eugene, Oregon
Evan Long, Eugene, Oregon
Kelsie Lynn Graboyes, Beaverton, Oregon
Sidney Hill, Eugene, Oregon
Jennifer Lysa Jak, Eugene, Oregon
Kelli Ann Kickhefer, Tualatin, Oregon
Miriam Somers, Portland, Oregon
Maia Nina S Wortman, Portland, Oregon
Andrew John Young, Newberg, Oregon
Amy Michelle Wirth, Albany, Oregon
Andrew John Young, Newberg, Oregon
Andrea Eileen Cronin, Saint Helens, Oregon
Laurel Ann Conley, Eugene, Oregon
Amanda Jo Fitzgustafson, Portland, Oregon
Brace Ellis, Santa Barbara, California
J. Vincent Gervais, Eugene, Oregon
Kimberly Grace Bishop, Eugene, Oregon
Shannon Renee Bullard, Roseburg, Oregon
Kimberly Lynne Burford, Springfield, Oregon
Shannon Renee Bullard, Roseburg, Oregon
Kimberly Lynne Burford, Springfield, Oregon
Shannon Renee Bullard, Roseburg, Oregon
Kimberly Lynne Burford, Springfield, Oregon
Kristin Healey, Portland, Oregon
Andrew Michael Hardy, Portland, Oregon
Elizabeth Hanselman, Portland, Oregon
David Michael Hart, Portland, Oregon
Jessica Stanek, Portland, Oregon
Kenmore, Washington
Samantha Matas, Portland, Oregon
Sarah Spencer Kennedy, Springfield, Oregon
Nicole Lynn Lien, Silverton, Oregon
Kristin Ashley Lindquist, Eugene, Oregon
Evan Long, Eugene, Oregon
Jacqueline Elizabeth Biner, Moraga, California
Kimberly Grace Bishop, Eugene, Oregon
Andrew James Boehm, Portland, Oregon
Kimmery Lynne Burford, Springfield, Oregon
Shannon Renee Bullard, Roseburg, Oregon
Kimberly Lynne Burford, Springfield, Oregon
Elizabeth Marie Carskadon, Waldport, Oregon
Laurel Ann Conley, Eugene, Oregon
Jamie Marie Cowley, Eugene, Oregon
Jeremy Paul Crandall, Saint Helens, Oregon
Jamie Paul Crandall, Saint Helens, Oregon
Andrea Eileen Cronin, Salem, Oregon
Alexander Matthew DeHaan, Salem, Oregon
Logan Michael Dethman, Eugene, Oregon
Leslee Nicole Dinsdale, Tigard, Oregon
Luke Samuel Dohman, Turner, Oregon
Heather Donaldson, Wilsonville, Oregon
Michelle Doob, Eugene, Oregon
Rachel Nicole Endre, Orinda, California
Brian Christopher Fedor, San Diego, California
Danielle Fenrette, Creswell, OR
Anne Wells Fetcher, Salem, Oregon
Anthony Gusnul, Portland, Oregon
Amanda Jo Fitzgustafson, Springfield, Oregon
Sean Daniel Flannery, Eugene, Oregon
Elke Marie Folk, Astoria, Oregon
Mar-Sae Fong, Portland, Oregon
Andrew Marie-Concetta Gentile, Eugene, Oregon
Keltie Lynn Grubbe, Beaverton, Oregon
Hillary Joyce Gross, Hillsboro, Oregon
Jordan Roger Guffey, Missoula, Montana
Jennifer Lindsay Gull, Dallas, Oregon
Whitney Noel Gum, Billings, Montana
Joshua John Hagemeyer, Springfield, Oregon
Sara Hamza, Tucson, Arizona
Lila Jo Hamik, Eugene, Oregon
Elizabeth Harms, Portland, Oregon
David Michael Hart, Portland, Oregon
Jessica Stanek, Portland, Oregon
Kenmore, Washington
Samantha Matas, Portland, Oregon
Sarah Spencer Kennedy, Springfield, Oregon
Nicole Lynn Lien, Silverton, Oregon
Kristin Ashley Lindquist, Eugene, Oregon
Evan Long, Eugene, Oregon
Jacqueline Elizabeth Biner, Moraga, California
Kimberly Grace Bishop, Eugene, Oregon
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Luke Samuel Dohman, Turner, Oregon
Heather Donaldson, Wilsonville, Oregon
Michelle Doob, Eugene, Oregon
Rachel Nicole Endre, Orinda, California
Brian Christopher Fedor, San Diego, California
Danielle Fenrette, Creswell, OR
Anne Wells Fetcher, Salem, Oregon
Anthony Gusnul, Portland, Oregon
Amanda Jo Fitzgustafson, Springfield, Oregon
John Jason Lovendahl-Toopke, Eugene, Oregon
Erin Elizabeth Manning, Medford, Oregon
Levi Jeth Martin, Long Creek, Oregon
Alicia Marie McIntire, Troutdale, Oregon
Brent Anthony McManus, L Billings, California
Julie Ann Miller, Orinda, California
Nicole Patrice Miller, Portland, Oregon
Teri Ann Miller, Springfield, Oregon
Diana Kathleen Monroe, Memphis, Tennessee
Lauren Masako Minakata Monta, Kailua, Hawaii
John Michael O'Brien, Coronado, California
Lea Janine Paden, L Billings, California
Ryan Christopher Pearson, Pocatello, Idaho
Adam M. Perkins Cresswell, Oregon
Courtney Elizabeth Phillips, Eugene, Oregon
Alanna Noelle Ritalian, Eugene, Oregon
Matthew Stephen Rogers, Oregon City, Oregon
Jarrod Alan Schemia, Oregon City, Oregon
Stephanie Ann Schultz, Oak Grove, Oregon
Farrah L. Snyder, Portland, Oregon
Jessica Lee Sojka, Beaverton, Oregon
Jancee Stanek, Medford, Oregon
Ryan Street, Salem, Oregon
Carly Michele Stronach, Portland, Oregon
Lois Christine Tabor, Bend, Oregon
Takashi Tani, Tokyo, Japan
Tiffani Neale Tedrow, Eugene, Oregon
Kathleen Green, Eugene, Oregon
Ashley Heard, Eugene, Oregon
Virginia Klausmeier, Eugene, Oregon
Gregg McCord, Eugene, Oregon
Laet Slip, Eugene, Oregon
Heather Murray, Eugene, Oregon
James Pilgrim, Eugene, Oregon
Eric Sorensen, Eugene, Oregon
Craig Swigler, Eugene, Oregon
Gregory Wallner, Eugene, Oregon

Master of Science Degree
STUDENT
Patricia Silsapadol, Berkeley, California
Charlene Haltermann, Eugene, Oregon
Tonya Amann, Eugene, Oregon
Jeffrey Beavers, Eugene, Oregon
Jason Chapman, Eugene, Oregon
Andrew Drew, Eugene, Oregon
Kathleen Green, Eugene, Oregon
Ashley Heard, Eugene, Oregon
Virginia Klausmeier, Eugene, Oregon
Gregg McCord, Eugene, Oregon
Laet Slip, Eugene, Oregon
Heather Murray, Eugene, Oregon
James Pilgrim, Eugene, Oregon
Eric Sorensen, Eugene, Oregon
Craig Swigler, Eugene, Oregon
Gregory Wallner, Eugene, Oregon

Doctoral Degree
STUDENT
Jeanne Langan, Eugene, Oregon
Henry-Ju Lee, Eugene, Oregon
Tonya Parker, Eugene, Oregon
David Mandeville, Eugene, Oregon
Ka Chun Siu, Eugene, Oregon

Greetings from the Department Head

Faculty grant support now measures in the millions of dollars. National awards have been bestowed on students and faculty members for their outstanding achievements from flagship organizations such as the American Physiological Society and the American College of Sports Medicine. This success, coupled with program growth, has enabled the department to hire a new colleague this year, a rare distinction in these days of tight budgets. Please check our department website (easily accessed through www.uoregon.edu) for an in-depth look at HP research.

We offer our deepest thanks to all of you who have generously provided us financial support. Contributions from alumni and friends helped create a new teaching lab, send graduate and undergraduate students to conferences, create In Vivo, and incorporate technology into our classrooms in ways we could have never imagined possible. We trust that you will enjoy this edition of In Vivo and that you will take the time to communicate with us about your activities so we may include more alumni news in future editions.

—Gary Klug

Department Reception Scheduled for 2007 ACSM Annual Meeting

The department has planned a reception for UD alumni, faculty members, and students at the 2007 American College of Sports Medicine meeting in New Orleans. It is slated for 5:30-7:00 p.m., Friday, June 1. Last year’s highly successful reception in Denver was well attended and enabled alumni across five decades to enjoy each other’s company. We cordially invite the many department alumni who attended this meeting to join us in reconnecting with friends and colleagues who share a common heritage. If you have colleagues attending the meeting whom you think we should invite, please invite them!

Former students Maria Rouscasvallies, Stamos Stavreaneas, and Nicholas Stengou enjoy a light moment at the 2006 ACSM-UO reception in Denver.

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In Vivo

continued from page one

Answer to last issue’s puzzle: 1974 intramural soccer champs—back row, left to right: John Ashton, Colin Tilley, Eric Thomas, Steve Pepper, Bill Kosman, George Rada, Gary Moran, Ian Bennett; front row, left to right: M. Fooladi, Gane Brown, Fred Lovesy, Jan Broekhoff, Lawrence Prosser, Jeff Elphenston.