Dr. Enikõ Rák, Assistant Professor, has received a $33,324 grant from the North Carolina Department of Health and Human Services, Division of Services for the Blind (DSB), to support a “Comprehensive Statewide Needs Assessment,” to identify and describe the rehabilitation needs of individuals with blindness, deaf-blindness, and other visual disabilities. The project focuses on the Vocational Rehabilitation (VR) service needs of individuals with significant visual disabilities (including their need for supported employment services), the VR needs of minorities, the needs of the unserved and underserved groups, and of individuals with visual disabilities served through vocational programs.

Researchers at UNC Chapel Hill have found that preschoolers with Autism Spectrum Disorder (ASD) who receive high-quality early intervention benefit developmentally regardless of the treatment model used – a surprising result that may have important implications for special-education programs and school classrooms across the country. The study appeared in the June issue of the Journal of Autism and Developmental Disorders. “This is the first study designed to compare long-standing comprehensive treatment models for young children with ASD,” said Dr. Brian Boyd, one of the study’s co-principal investigators. Dr. Boyd is an Assistant Professor with the Department of Allied Health Sciences, UNC Chapel Hill.
Looking back on this year, I’m so proud of the many accomplishments of our faculty, staff, and students, despite hard economic times for research funding – it’s quite an impressive group! I won’t reiterate everything in the newsletter here (just a few things!), but I want to congratulate the many students across our three PhD programs who successfully defended their dissertations in the spring/summer, and also to welcome all the new students and faculty beginning this fall, particularly our two research methodologists, Drs. Wanqing Zhang and Richard Faldowski.

We will be hosting a new series of research forums on September 25, October 23, and December 4, which will give us a chance to introduce new faculty across divisions and showcase their research programs, as well as dialogue about interdisciplinary methodological issues. We encourage all DAHS researchers (faculty, staff, or students) to attend and enjoy lunch – on us!

Last, but not least, I want to personally acknowledge and thank Dr. Lee McLean for her dedication and service over the past 13 years. Her vision, leadership, mentorship, and tireless advocacy for all of our professions in Allied Health have been amazing. Her research vision was realized in the creation of the DAHS Office of Research (DAHS-OOR), expansion of our administrative infrastructure for supporting grants, acquisition of millions of dollars in external funding, and successful recruitment and retention of top teachers, scholar-practitioners, and researchers with national and global reputations. Not too shabby! We wish you well in your retirement, Lee, and we hope to carry your legacy forward.

From Dr. Grace Baranek, Associate Chair for Research

Dr. Grace Baranek

Current Year (FY 12-13) Funding by Agency

<table>
<thead>
<tr>
<th>Agency Type</th>
<th>Funding Amount</th>
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</thead>
<tbody>
<tr>
<td>Federal (NIH)</td>
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<tr>
<td>Federal (DoEd)</td>
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<td>Federal (HRSA)</td>
<td>$8,243.9k</td>
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<tr>
<td>Federal (Other)</td>
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<td>Foundation</td>
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<td>Other Non-Profit</td>
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<td>State Contracts</td>
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<tr>
<td>Internal</td>
<td>$25,834.1k</td>
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Total Awards Received (FY 03-13)

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<thead>
<tr>
<th>Year</th>
<th>Funding Amount</th>
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<td>FY 03-04</td>
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<tr>
<td>FY 04-05</td>
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<tr>
<td>FY 07-08</td>
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<td>FY 09-10</td>
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<td>FY 10-11</td>
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<td>FY 11-12</td>
<td>$9,000,000</td>
</tr>
<tr>
<td>FY 12-13</td>
<td>$10,000,000</td>
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</table>

Dr. Rák has significant experience in program evaluation for the public VR system. She started out as a graduate assistant for Project Excellence—A Program Evaluation Partnership between Michigan State University and Michigan Rehabilitation Services. Currently, in addition to the project for the DSB, she is also the primary investigator for the Ann Arbor Center for Independent Living Community Needs Assessment, which examines community needs and issues affecting Michigan residents. This study explores and compares community needs of persons with and without disabilities.

Needs Assessment (from page 1)
### New Grants Awarded (January 2013-June 2013)

<table>
<thead>
<tr>
<th>Award Title</th>
<th>Award</th>
<th>Team</th>
<th>Sponsor</th>
<th>Begin Date</th>
<th>End Date</th>
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<tbody>
<tr>
<td>Intensive Rehabilitation Research Grant Writing Workshops in the U.S.</td>
<td>$121,228.00</td>
<td>Segal, Rick</td>
<td>National Institute of Child Health and Human Development (NICHD)</td>
<td>1/7/2013</td>
<td>12/31/2017</td>
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<tr>
<td>Comprehensive Statewide Needs Assessment</td>
<td>$33,324.00</td>
<td>Enikő Rák</td>
<td>North Carolina Department of Health and Human Services (NCDHHS)</td>
<td>6/1/2013</td>
<td>10/31/2013</td>
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<tr>
<td>Special Education - Assessing and Facilitating Literacy Skills in Students with Significant Cognitive Disabilities</td>
<td>$30,000.00</td>
<td>Erickson, Karen; Hatch, Penny; Ryan, Skip</td>
<td>North Carolina Dept of Public Instruction</td>
<td>6/1/2013</td>
<td>5/31/2014</td>
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<td>Mexican Immigrants' Participation in Activities of Daily Living</td>
<td>$1,000.00</td>
<td>Bailliard, Antoine</td>
<td>Latino Migration Project</td>
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### Proposals Submitted (January 2013-June 2013)

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<tr>
<th>Title</th>
<th>Team</th>
<th>Sponsor</th>
<th>Proposed Funds</th>
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</thead>
<tbody>
<tr>
<td>Connect 2 Fitness CP: A Web-Supported Fitness and Wellness Program for Community-Dwelling Adults with Cerebral Palsy</td>
<td>Thorpe, Deborah; Erickson, Karen; Burchinal, Margaret; Errickson, Sadye</td>
<td>National Institute on Disability and Rehabilitation Research</td>
<td>$396,877.00</td>
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<tr>
<td>Exceptional Children Physical Therapist</td>
<td>Segal, Rick; Ray, Laurie</td>
<td>North Carolina Dept of Public Instruction</td>
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<td>Exceptional Children Occupational Therapist</td>
<td>Humphry, Ruth; Holahan, Lauren</td>
<td>North Carolina Dept of Public Instruction</td>
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<td>2013 Scientific Service Program for Elite Discus Throwers</td>
<td>Yu, Bing</td>
<td>USA Track and Field</td>
<td>$18,000.00</td>
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<tr>
<td>Interdisciplinary Leadership in Autism Spectrum Disorders: Optimizing Research-Practice Partnerships for Evidence-Based Outcomes</td>
<td>Crais, Elizabeth; Baranek, Grace; Able, Harriet; Watson, Linda</td>
<td>US Department of Education (DOED)</td>
<td>$1,246,833.84</td>
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<tr>
<td>An Innovative Web-Based Fitness Platform for Adults with Cerebral Palsy</td>
<td>Thorpe, Deborah</td>
<td>Share It Fitness</td>
<td>$134,893.84</td>
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<td>Spinal Circuits and the Musculoskeletal System</td>
<td>Segal, Rick</td>
<td>Emory University</td>
<td>$25,164.44</td>
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<tr>
<td>Pyschometric Functions for the Basic English Lexicon (BEL) Sentences</td>
<td>Calandrucio, Lauren</td>
<td>American Speech-Language-Hearing Foundation</td>
<td>$10,000.00</td>
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<tr>
<td>Effect of Nonlinear Frequency Compression on Speech Understanding in Children with Asymmetric Hearing Loss</td>
<td>Hillock-Dunn, Andrea; Charles, Lauren; Lockhart, Steve</td>
<td>American Speech-Language-Hearing Foundation</td>
<td>$75,000.00</td>
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<tr>
<td>Auditory Masking Effects on Speech Fluency in Aphasia and Apraxia of Speech</td>
<td>Jacks, Adam; Roth, Heidi; Haley, Katarina</td>
<td>National Institutes of Health (NIH)</td>
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<tr>
<td>Spinal Circuits and the Musculoskeletal System</td>
<td>Segal, Rick</td>
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<tr>
<td>Sensory Experiences in Children with Autism</td>
<td>Baranek, Grace; Campbell, Alana; Evans, Anna; Belger, Aysenil; Schultz, Beth; Boyd, Brian; Best, David; Lovmo, Jeanne; Bulluck, John; Sideris, John; Watson, Linda; Clark, Renee; Jungers, Robert; Schipul, Sarah</td>
<td>National Institute of Child Health and Human Development</td>
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<td>Caregiver-Mediated Intervention for Toddlers at-risk for Autism from Underserved Families</td>
<td>Watson, Linda; Tashjian, Christene; Shafar, Dawn; Crais, Elizabeth; Baranek, Grace; Allison, Jamie; Cashwell, John; Sideris, John; Turner-Brown, Lauren; Wakeford, Linn; Boyd, Lisa; Stefani, Lucy; Beck, Melissa; Reznick, Steve</td>
<td>Autism Speaks</td>
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<tr>
<td>Evaluating Informational Masking for Speech on Speech Recognition</td>
<td>Calandrucio, Lauren; Lockhart, Steve; Leibold, Lori; Buss, Emily</td>
<td>National Institute on Deafness and Other Communication Disorders</td>
<td>$456,000.00</td>
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<td>Effects of Custom Foot Orthoses on Balance and Falls in Older Adults</td>
<td>Gross, Michael; Mercer; Vicki; Carlson, John</td>
<td>National Institutes of Health (NIH)</td>
<td>$481,408.00</td>
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<tr>
<td>Using Structured Teaching to Promote Employment Skills in Adolescents with ASD</td>
<td>Klinger, Mark; Osborne, Glenna; Klinger, Laura</td>
<td>Autism Speaks</td>
<td>$120,000.00</td>
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</tbody>
</table>
McCulloch Honored by APTA Neurology Section as Research on Assessment for Wounded Warriors Continues to Draw Support

Dr. Karen McCulloch, Professor, received the Service to Section Award for the American Physical Therapy Association (APTA) Neurology Section at the 2013 Combined Section Meeting in January.

According to a profile on the neuropt.org Web site, “The choice for the Service to the Section Award, whose purpose is to acknowledge and honor a member of the Neurology Section whose contributions to the Section have been of exceptional value, was easy this year.”

The story goes on to cite several examples of Dr. McCulloch’s leadership during her 22 years of service to the section, including the formulation of the Neurology Section Home Study Course, her role as co-founder of the Brain Injury Special Interest Group, and her service as a member of the Consensus Conference on Entry-level Education, Chair of the APTA Neurology Section–TBI Edge Task Force–Outcome Measure Recommendations Committee, and Editorial Board Member of *Physiotherapy in Theory and Practice*.

Also in early 2013, Dr. McCulloch became co-chair of the Brain Injury Association of North Carolina and began serving on the Governor's Advisory Council for Brain Injury.

Dr. McCulloch is the primary investigator for a grant titled Assessment of Military Multitasking Performance (AMMP). Funded by the Allina Health System, the grant is providing $243,918 between August 15, 2012, and August 1, 2013.

AMMP is a battery of functional dual- and multitasks that simulate the combined sensorimotor, cognitive, and exertional demands of soldiering for use after concussion/mild traumatic brain injury (mTBI). Investigators anticipate that once validated, the AMMP will help discriminate between “duty-ready” and “non-duty ready” military service members with mTBI.

An interdisciplinary team of civilian and military physical therapists, occupational therapists, and neuropsychologists have worked since 2009 to develop the AMMP assessment with the following attributes: employs dual-task and multitasking assessment methods; sensitive to mTBI-related vulnerabilities; comprised of tasks that are based on military scenarios that simultaneously challenge cognitive and sensorimotor systems in ways that approximate the demands of military occupational tasks.

Collaborators on the AMMP project include Dr. Rich Goldberg in the Department of Biomedical Engineering, Capt. Henry McMillan, PT, DPT, at Fort Bragg, who is an alumnus of the BS PT program at UNC, and Amy Cecchini, MS, from Fayetteville, who is a graduate of the Human Movement Science master’s program. Graduate students from the DPT and biomedical engineering programs are also involved in the project.

The AMMP project previously received support from a United States Army Institute of Environmental Medicine (USARIEM) grant and Dr. McCulloch received funding as an Oak Ridge Institute for Science and Education (ORISE) fellow through the Rehabilitation and Reintegration Division (R2D) of the Army Office of the Surgeon General.

Autism Treatment Model Study
(from page 1)

Department of Allied Health Sciences and a Fellow at UNC’s Frank Porter Graham Child Development Institute (FPG).

“We know that more children are being diagnosed with ASD each year, and that it can cost $3.2 million to treat each child over a lifetime. Understanding that a child can benefit from a high-quality program, rather than a specialized program, may help reduce those costs by decreasing the need for teachers and other school practitioners to be trained to deliver multiple specialized services,” Dr. Boyd said. He stressed it remains important to ensure educators are trained to provide high-quality programs that meet the special behavioral, communication, and other needs of children with ASD.

Previous research has shown that when children with ASD have access to early intervention via treatment programs, they improve developmentally. Until now, however, debate has persisted over which approach to use, said Dr. Boyd.

Two frequently used comprehensive treatment models have a long history: LEAP (Learning Experiences and Alternative Program for Preschoolers and their Parents) and TEACCH (now known only by its acronym).

FPG’s study examined the relative effects of the LEAP and TEACCH school-based comprehensive treatment models when compared to each other and to special-education programs that do not use a specific model. The multisite study took place only in high-quality classrooms and enrolled 74 teachers and 198 3- to 5-year-olds in public school districts.

The study found that children made gains over the school year regardless of the classroom’s use of LEAP, TEACCH, or no specific comprehensive treatment model. “Each group of children showed significant positive change in autism severity, communication and fine-motor skills,” said Dr. Kara Hume, FPG scientist and co-author. “No statistically significant differences were found among models, which challenged our initial expectations—and likely the field’s.”

“This study may shift the field’s thinking about comprehensive treatment models designed for young children with ASD,” said co-author Dr. Samuel L. Odom, FPG’s Director and the study’s principal investigator. “Perhaps it’s not the unique features of the models that most contribute to child gains but the common features of the models that most influence child growth.”

Researchers from East Tennessee State University, the University of Miami, Florida International University, University of Minnesota, and Griffith University also participated in the study.
Hasselkus Visits as 2013 Mitchell Symposium Scholar

Dr. Betty Ristine Hasselkus, Emeritus Professor of Kinesiology/Occupational Therapy at the University of Wisconsin-Madison, visited UNC Chapel Hill in March as the 2013 Mitchell Symposium Scholar.

In addition to classroom visits and individual consultations with faculty members and students, Hasselkus participated in a discussion titled “The Lived Experience of Doing Research” with faculty and PhD students on March 5, and delivered a public lecture titled “Everyday Occupations: The Heart of Research and Practice” on March 6.

During her over 40 years of active participation in the profession of occupational therapy, Dr. Hasselkus has focused her research, teaching, and practice on the everyday occupational experience of people in the community, with a special emphasis on family care giving for older family members, physician/family caregiver relationships, meanings of everyday occupation to dementia day care staff, and the meaning of doing occupational therapy.

The Mitchell Symposium is named in honor of Drs. Marlys and Earl (Mitch) Mitchell and has been made possible through generous gifts from Drs. Ruth Humphry and Bruce Carney, as well as other supporters.

Research in the DAHS (from page 1)

FTE dedicated research design and analysis faculty members available to collaborate on faculty research, assist in teaching graduate level research courses, and provide professional development seminars for our faculty.

We have 34 active, externally funded projects this year, plus another 3 internally funded projects; 35 faculty receive salary support on funded projects. In terms of dollars, our annual direct cost expenditures for the fiscal year were approximately $45. million. The total award value of currently funded DAHS grants is $18.2 million, generating more than $3.5 million in F&A return for the University. Yes, we have come a long way in 13 years! And, this growth is directly attributable to the hard work of our faculty and their collective commitment to developing a strong research culture and infrastructure for our department.

Looking Ahead

Our progress over the past 13 years has put the DAHS on a trajectory which promises even greater growth and achievements over the next 10 years. As I look ahead for this department, I see a number of significant opportunities (and/or challenges, depending on how we choose to look at them). Let me just list a few of these:

Need and opportunities to expand collaborative networks: One of the clear directions coming out of our ongoing strategic planning is the need, and opportunity, for our faculty to develop new interdisciplinary, collaborative relationships – not only across our divisions, but critically, across the School of Medicine, and the University. Again, we can already point to several productive collaborations involving DAHS faculty and colleagues from other departments and schools.

A couple of obvious areas ripe for further collaboration would be with faculty in the School of Public Health who focus on health care reform and new models of delivering health care; and with the Sheps Center, with its focus on the health care workforce, including the Allied Health disciplines. Similarly, there would seem to be many opportunities for collaboration with faculty in the School of Nursing, with research interests in clinical care across the lifespan, from the NICU through gerontology and hospice care. An expansion of our collaborative networks will also open doors to new funding sources, including the CDC, HRSA, and the Institute of Nursing.

Need and opportunities to diversify funding sources: In recent years, about 80% of our external funding has come from two federal agencies: the NIH and the U.S. Department of Education (Rehabilitation Services). With federal funding increasingly at risk, we must take advantage of opportunities to cultivate other funding sources, including the Department of Defense and the Veterans’ Administration, as well as non-governmental organizations and foundations, and private industry. We already have some experience with these other funding sources, and I see growing opportunities for us to develop these further, including new faculty recruitments, new interdisciplinary collaborations, and expanding interactions with the military community here in N.C.

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New faculty colleagues: Finally, in response to faculty turnover, as well as some new funding, we have recruited nine new faculty members who will be joining us in August. These new colleagues will bring a variety of research experience, research interests, and methodological strengths to our department. (See profiles on page 6).

And, of course, the coming year will bring a new Chair to the Department, who will then work with our faculty to recruit a new Division Director for Physical Therapy. These new members of the DAHS leadership team will bring additional research expertise and interests to the DAHS. The future looks bright, indeed!
**NEW FACULTY**

**DR. NANCY BAGATELL** has joined the faculty of the Division of Occupational Science and Occupational Therapy as an Associate Professor. Dr. Bagatell earned her PhD in Occupational Science and her MA in Occupational Therapy from the University of California, Los Angeles. She was most recently an Assistant Professor in the Department of Occupational Therapy at Quinnipiac University in Hamden, Connecticut. **Areas of research interest:** adolescents and adults with autism spectrum disorders (family routines, transition, and identity construction).

**DR. DARA CHAN** has joined the Division of Rehabilitation Counseling and Psychology as an Assistant Professor. Dr. Chan completed her ScD in Rehabilitation Sciences from Boston University in 2013 and holds an MHS in Rehabilitation Counseling from the University of Florida, Gainesville. She was most recently a Guest Lecturer for the Boston University Department of Physical Therapy and Project Coordinator for the Boston University Department of Occupational Therapy Life Skills Lab. She previously worked as a Clinical Team Leader and Rehabilitation Case Manager in private industry rehabilitation. **Areas of research interest:** geospatial analysis, homelessness, and community integration of adults with psychiatric disabilities.

**LISA CREMEANS** has joined the Division of Clinical Laboratory Science as an Instructor. Cremeans is a 2012 graduate of the Division’s Molecular Diagnostic Science (MDS) program and holds generalist and molecular biology certifications as well as a specialist certification in microbiology. She has 14 years of experience in the clinical laboratory and an additional three years of experience as a safety specialist in the pharmaceutical industry. Cremeans will be responsible for the microbiology component of the CLS program and many courses in the MDS program. **Areas of research interest:** career recruitment and retention of clinical laboratory professionals.

**DR. RICHARD FALDOWSKI** has joined the Department of Allied Health Sciences as an Associate Professor. Dr. Faldowski is one of two new Research Methodologists working through the DAHS Office of Research with interdisciplinary responsibilities in research, teaching, and service. He has a PhD and MA in Quantitative Psychology from UNC Chapel Hill, and has held faculty appointments at the Medical University of South Carolina and UNC Greensboro. **Areas of research interest:** longitudinal analysis methods, research and evaluation design, statistical modeling, person-focused analyses; as well as programs and services for children and families placed at risk by poverty or other psychosocial circumstances.

**SHAUNA HAY** has joined the Division of Clinical Laboratory Science as an Assistant Professor. Hay graduated from the UNC CLS program in 1996 and worked as a Medical Technologist at UNC Hospitals. She holds a MPH from UNC Chapel Hill and has biomedical industry experience as a Scientific Affairs Liaison and a Medical Writer. As a Research Associate for Dr. Mark Brecher from 2001-09, she published numerous articles on blood bank issues including bacterial contamination of platelets. **Areas of research interest:** blood safety and availability; laboratory management and analysis of blood samples; companion diagnostics (laboratory tests to identify patients who will benefit from specific drug therapies).

**DR. PATRICIA JOHNSON** has joined the Division of Speech and Hearing Sciences as an Assistant Professor. Dr. Johnson’s primary role is working as a clinical audiologist at the UNC Hearing and Communication Center, where she performs hearing evaluations, dispenses hearing aids, and supervises AuD students. She especially enjoys working with older adults and their families to facilitate optimal communication in their golden years. Johnson earned her BS in Speech and Hearing Sciences from the University of Washington, Seattle, and completed her AuD at UNC Chapel Hill in May. **Areas of research interest:** adult aural rehabilitation and patient advocacy.

**DR. PREMA MENEZES** has been appointed as the first Director of the Physician Assistant (PA) master’s degree program currently being developed within the Department of Allied Health Sciences. Dr. Menezes holds a PhD in Epidemiology from UNC Chapel Hill and a MHS from the PA program at Duke University. She was most recently a Clinical Associate Professor with the Division of Infectious Diseases and Adjunct Assistant Professor with the Gillings School of Global Public Health. She served as Co-Director of the UNC Center for AIDS Research (CFAR), Clinical Core, and Co-Director of the UNC Fogarty Global Health Fellows and Scholars Program. Dr. Menezes was also an Adjunct Assistant Professor at Duke, where she was involved with course coordination and instruction, curriculum development, and mentorship for the PA program for over 12 years.

**DR. PRUDENCE PLUMMER** has joined the Division of Physical Therapy as an Assistant Professor. Dr. Plummer earned her PhD in Physiotherapy at La Trobe University in Victoria, Australia, and completed postdoctoral training at the University of Florida Brooks Center for Rehabilitation Studies and the University of California Los Angeles Department of Neurology. She was most recently an Assistant Professor with the Northeastern University Department of Physical Therapy. **Areas of research interest:** cognitive-motor functioning in older adults, post-stroke.

**DR. WANQING ZHANG** has joined the Department of Allied Health Sciences as an Assistant Professor. Dr. Zhang is one of two new Research Methodologists working through the DAHS Office of Research with interdisciplinary responsibilities in research, teaching, and service. Dr. Zhang has a PhD in Educational Psychology and ME in Health Education from the University of Nebraska-Lincoln, and a MD from Shanghai Medical University in China. She was most recently a Research Associate at the University of Nebraska Medical Center, Department of Health Services Research and Administration. **Areas of research interest:** application and improved rigor of mixed methods designs in health care research.

**DEPARTURES**

**DR. ANDREW BYRNE** left the Division of Rehabilitation Counseling and Psychology for a position as an Assistant Professor at Ohio University in Athens, Ohio.

**DR. MALCOLM CUTCHIN** left the Division of Occupational Science and Occupational Therapy to become Professor/Chair of the Department of Health Care Sciences at Wayne State University.

**DR. REBECCA LAUDICINA** retired as a Professor with the Division of Clinical Laboratory Science in July after teaching with the program for 22 years. She will continue to stay involved and has grant funding to work on a project related to hematology.

**DR. SUSAN ORTON** left the Division of Clinical Laboratory Science faculty in January for a position as the Clinical Laboratory Director of Metabolon, Inc., in Research Triangle Park.

**DR. RICK SEGAL** left his position as Professor and Director of the Division of Physical Therapy in August to become Chair of the Department of Health Professions at the Medical University of South Carolina (MUSC) in Charleston, SC.

**DR. CHINYU WU** left the Division of Occupational Science and Occupational Therapy for a position as an Assistant Professor with the Department of Occupational Therapy at Winston-Salem State University.
**Renner Wins National Advising Award**

Joy Renner, Division Director and Associate Professor, has been honored as an Outstanding Faculty Advisor by the National Academic Advising Association (NACADA). Renner, a UNC faculty advisor in natural sciences and mathematics, will be recognized at NACADA’s annual conference in Salt Lake City, Utah, October 6-9. NACADA was chartered in 1979 to promote quality academic advising to ensure the educational development of students. Since that time, it has grown to more than 11,000 members.

**Watson Named ASHA Fellow**

Dr. Linda Watson, Professor, has been named a fellow of the American Speech-Language-Hearing Association (ASHA). The status of Fellow is retained for life and is one of the highest honors ASHA bestows. It recognizes professional or scientific achievement and is given to members who have made outstanding contributions to the profession — contributions that are significant and would be so regarded within and beyond one’s community or state. For Dr. Watson, these contributions include supervising and mentoring over 250 future clinicians and scholars; conducting and disseminating research, especially in autism, with over $8M in grants, 39 articles, and more than 100 presentations; and serving in varied ASHA leadership roles related to autism. Dr. Watson will be recognized at the ASHA Convention, November 14-16, in Chicago.

**Thorpe Delivers Keynotes, Receives APTA Award**

Dr. Deborah Thorpe, Associate Professor, delivered the Susan Harryman Lectureship keynote address at the Kennedy Krieger Institute in Baltimore, Maryland, on November 9, 2012, and the keynote address at the annual AI DuPont Hospital for Children Cerebral Palsy Conference in Wilmington, Delaware, on May 2, 2013. The topic for both lectures was “Promotion of Fitness and Physical Activity Across the Life Course for Individuals with Cerebral Palsy.”

In January 2013, Dr. Thorpe received the Anniversary Award from the American Physical Therapy Association, Section on Pediatrics, at the annual Combined Sections Meeting in San Diego. The Anniversary Award is presented to a pediatric physical therapist who has made outstanding, visionary contributions in an area of pediatric physical therapy, including practice, research, mentoring, or leadership.

**Williams Selected for ACCLAIM Program**

Dr. Sharon Williams, Associate Professor, has been selected for the second year of UNC’s ACademic Career Leadership Academy in Medicine (ACCLAIM) program. Participants for this program were selected by a steering committee composed of the Executive Associate Dean for Faculty Affairs, the Executive Associate Dean for Academic Programs, the COO of UNC Hospitals, and the course leader from the list of nominees submitted by the Deans and Department Chairs. The ACCLAIM program is designed to help participants in developing leadership, management, strategic-thinking, problem-solving and negotiation skills.

**Woodward Named Radiologic Original**

Andrew Woodward, Assistant Professor, was profiled in the April/May issue of ASRT Scanner. The article, titled “Radiologic Originals,” features nine pioneers who helped shape the radiologic technology profession.

**Tenth Annual Human Movement Science Research Symposium at UNC**

The tenth annual Human Movement Science Research Symposium was held March 1, 2013, at UNC Chapel Hill. Students, faculty, researchers, and clinicians from across the region attend the symposium each year to present and discuss current research in an open and friendly environment. The American Society for Biomechanics (ASB), National Academy of Sports Medicine (NASM), Tekscan, and Don Joy Orthopedics were sponsors of the 2013 event.

Dr. Clive Pai, Professor, Department of Physical Therapy, and Director of the Clinical Gait and Movement Analysis Laboratory at the University of Illinois at Chicago, delivered the keynote address “Learning From Falling: Inoculate Older Adults Against Falls.”


**Book Chapters and Non-Refereed Publications**


Continued on page 11
**Student Research News**

**Kevin Cunningham** (MS Speech-Language Pathology Class of 2013) received a Students Preparing for Academic and Research Careers (SPARC) Award from the American Speech-Language-Hearing Association (ASHA) in 2012. He developed a research and teaching plan with Drs. Katarina Haley and Adam Jacks, presented his work at the NC Speech Language Hearing Association convention, and is working on a first-authored manuscript about the project. He received funding to present his work at the 2013 ASHA convention in November. Cunningham also received the 2012 Robert W. Peters Award, which recognizes UNC Speech and Hearing Sciences students who have demonstrated excellence in research.

**Hannah Hodson** (Clinical Doctorate in Audiology student) spent the summer at Boys Town National Research Hospital in Omaha, Nebraska, on an NIH/NIDCD T35 fellowship.

**Bianca Gomez** (Clinical Doctorate in Audiology student) was awarded a Mentored Student Travel Award by the American Auditory Society and the National Institutes of Health (NIDCD). Gomez’s project is titled “Energetic and informational masking of speech for Spanish/English bilingual children,” and her mentors are Drs. Lori Leibold and Lauren Calandruccio.

**Dr. Sara Mamo** (Clinical Doctorate in Audiology Class of 2008, current Speech and Hearing Sciences PhD student) was awarded a New Century Scholars Doctoral Fellowship worth $10,000 by the American Speech-Language-Hearing Foundation. Mamo conducts research under the mentorship of Dr. John Grose, Department of Otolaryngology.

**Tamira White** (MS Rehabilitation Counseling and Psychology Class of 2013) was the recipient of a NICHD diversity supplement grant to Dr. Grace Baranek’s R01, the Sensory Experiences Project, from August 15, 2012 through June 30, 2013. White researched issues related to caregiver strain in families with children with autism and presented a poster on her work at the prestigious New England Science Symposium at Harvard Medical School in March. She was accepted to the PhD program in Applied Developmental Science and Special Education at UNC Chapel Hill for the fall of 2013.

**Hannah Hodson, right, met Dr. Michael Gorga, renowned expert in audiology, at Boys Town Hospital.**

**Tamira White**

**Student Research Days**

The Division of Speech and Hearing Sciences and Division of Occupational Science and Occupational Therapy hosted student research days in the spring. The events gave students the opportunity to share their research with visitors from across campus. An abstract booklet of the SHS student research is available at [www.med.unc.edu/ahs/sphs/files/shs_researchday-2013.pdf](http://www.med.unc.edu/ahs/sphs/files/shs_researchday-2013.pdf).
HUMAN MOVEMENT SCIENCE
(A joint program between the Department of Allied Health Sciences, Division of Physical Therapy, and the College of Arts and Sciences, Department of Exercise Science).


DR. BENJAMIN GOERGER – Dissertation title: The Effect of Anterior Cruciate Ligament Injury and Reconstruction on Lower Extremity Biomechanics, Coordination, and Variability. Dissertation research earned a 2013 UNC Graduate Education Advancement Board Impact Award. Advisor: Dr. Darin A. Padua. Post-graduation: Assistant Professor, Department of Kinesiology and Health, Georgia State University.


SPEECH AND HEARING SCIENCES


DR. JESSICA KLUSEK – Dissertation title: Pragmatic Language in Autism and Fragile X Syndrome: Links with Physiological Arousal and Anxiety. Advisor: Dr. Molly Losh. Post-graduation: Postdoctoral fellow with the Neurodevelopmental Disorders Project at the University of South Carolina.

DR. LUCIA MENDEZ – Dissertation title: Culturally and Linguistically Responsive Vocabulary Approach for Young Latino Dual Language Learners (DLLs). Advisors: Drs. Elizabeth Crais and Dina Castro. Post-graduation: Completing NIH post-doctoral research fellowship in the Department of Communication Sciences and Disorders at Temple University; then joining the Department of Communication Sciences and Disorders at East Carolina University as an Assistant Professor.

OCCUPATIONAL SCIENCE


DR. KENDRA HEATWOLE SHANK – Dissertation title: Community Livability for Older Adult: The Person-Place Relationship and Process. Advisor: Dr. Malcolm Cutchin. Post-graduation: Welcoming a second child in August; teaching a research seminar in the OS/OT department Fall 2013 and Spring 2014; pursuing a faculty position with a strong research component beginning Fall 2014.

Timko Receives 2013 University Diversity Award

Arianna Timko, a 2013 graduate of the Division of Rehabilitation Counseling and Psychology master’s degree program, won the University Diversity Award in the graduate/professional student category in April. The Diversity Award recognizes significant contribution to the enhancement, support, and/or furtherance of diversity on the campus and in the community.

As a student, Timko focused primarily on the holistic rehabilitation of persons with concurrent psychiatric and physical disabilities. She was a Graduate Assistant for Interpersonal Violence Prevention at Student Wellness, working with the One ACT bystander intervention training program. In June of 2012, Timko began research and program development for a One ACT program focused on the prevention of identity-based and sexual harassment, Beyond Bullying, which debuted in March of this year. As a graduate student facilitator for the Buckeye Public Service Scholars Program, Timko wrote and facilitated an interactive workshop on disability awareness, inclusion, and advocacy for undergraduate students through the Carolina Center for Public Service.

CONGRATULATIONS TO OUR PHD PROGRAM GRADUATES
(JULY 1, 2012-JUNE 30, 2013) Visit www.med.unc.edu/ahs/research/news/phd-grads-12-13 for photos and more information about each graduate.

PUBLICATIONS continued


Laudicina, R.J., Platelet testing, morphology, and disorders. Competency Assessment Program. College of American Pathologists.


Dr. Carty Husted lives the best of both worlds. She works as a Physical Therapist at UNC Health Care and when Dr. Michael Lewek, Assistant Professor, needed assistance with the Error Based Learning for Restoring Gait Symmetry Post-Stroke project, Dr. Husted excitedly jumped on board the research team. Now, she splits her time between working with her patients at the Rehab Unit at UNC Health Care and investigating how to help individuals improve their gait after a stroke.

Dr. Lewek’s research involves looking at how errors in movement while walking post-stroke can help individuals learn to improve their ability to walk. A specialized treadmill is split and the separate sides are able to speed up or slow down according to the walker’s gait. Individuals can be forced to make mistakes in their gait, for which they will need to compensate. This enables the brain to re-learn the movements necessary to improve walking. Dr. Husted works with the patients in this study and is involved in the process of helping them learn to adjust their gait and walk better.

Dr. Husted had originally studied Biology at Sewanee: The University of the South, in Sewanee, Tennessee, where she had her first experiences with research. There, she saw how exciting it was to be part of a research team – investigating a problem, designing an intervention, collecting data, and, ultimately, positively impacting people’s lives.

After graduating, Dr. Husted moved to Chapel Hill and further fostered her interest in research at the UNC Lineberger Comprehensive Cancer Center, helping to investigate breast cancer. As exciting as it was to be part of those research efforts, Dr. Husted knew she wanted to work with people more directly, and she began pursuing her education in Physical Therapy at UNC Chapel Hill, receiving her DPT in 2009.

As a Physical Therapist, Dr. Husted enjoys working with patients and hearing each person’s story. To her, it is thrilling to see her patients’ progress and to be involved in helping them return to activities they enjoy after a stroke or hospitalization. She finds that her research work and her clinical work complement each other: she augments her patient care with information she has gleaned through her research involvement with Dr. Lewek. Similarly, she uses her skills and knowledge as a practicing Physical Therapist in the research setting of Dr. Lewek’s lab.

Dr. Husted loves to travel and has visited four countries within the past year – Canada, Mexico, England, and Indonesia. This fall, she hopes make another trip to Jakarta, Indonesia, where her brother and his family live. Dr. Husted tries to visit them as often as possible, considering the 24-hour flight well worth it to spend time with her niece and nephew! A bit closer to home, she is also planning a trip to California’s wine country.


Freuler’s interest in children with ASD and military families started during her graduate teaching assistantship at Kansas State University’s (KSU) Early Childhood Laboratory. During Freuler’s graduate work, her husband was deployed twice with the Army to Iraq. As an Army community services volunteer, Freuler became familiar with military culture and had the opportunity to work with parents of children with ASD.

After Freuler’s time at KSU, she earned a master’s degree in Counseling Psychology at Mercer University in Atlanta. Freuler’s clinical internships highlighted the enormous impact an ASD diagnosis has not only on the lives of children, but also on their families. As she continued working with families of children with ASD, her curiosity about the impact of ASD on the family system kept growing. Freuler then began looking into doctoral programs that would provide her with the knowledge and skills for conducting research with families who were raising a child with ASD. The Occupational Science program at UNC stood apart from other schools because of its interdisciplinary nature.

Throughout her tenure at UNC, Freuler worked on two interdisciplinary projects, the Sensory Experiences Project and the Early Development Project. As part of these projects she conducted observations and interviews with caregivers and children and a qualitative retrospective video analysis of infant home videos. Freuler wanted to stay in direct contact with families during her research experiences and qualitative methods allowed her to do so. She says that qualitative research methods “provide an opportunity for caregivers and families to directly contribute to research and practice that will optimally benefit not only their family, but other families like theirs.”

With her graduate studies complete, Freuler has accepted a position as Project Coordinator with UNC’s Program for Early Autism Research, Leadership & Service (PEARLS).

Freuler’s focus on family extends outside the academic realm. Her family, including her husband, 3-year-old son, twin infant sons, and three dogs, enjoys backyard campfires, outdoor music events, and hiking the Eno River.