Legrys Receives Grant for Sweat Testing Research

Dr. Vicky LeGrys received a grant from the Legacy of Angels Foundation to support research into a novel sweat testing method for diagnosing cystic fibrosis. The new method is designed as a point of care device, deriving sweat chloride concentration from a colorimetric patch. This new method will be compared to the reference qualitative pilocarpine iontophoresis test and will enroll 300 subjects at 6 cystic fibrosis care centers across the US. In the first phase of the project, Dr. LeGrys will visit the 6 centers to ensure the reference method is being performed according to CLSI and Cystic Fibrosis Foundation standards. The research grant is a collaboration with Dr. Michael Rock at the University of Wisconsin at Madison.

UNC Rehabilitation Professor Receives Autism Society Foundation Grant

Dr. Dara Chan, Assistant Professor in the University of North Carolina at Chapel Hill Division of Rehabilitation Counseling and Psychology, was awarded a Research Enhancement Grant from the Autism Science Foundation in November 2014. Dr. Chan said, “Because the number of people diagnosed with autism is increasing, there is a significant need to understand and prepare for the resources needed by adults with ASD. Unfortunately, there is little scientific research in this area. The largest prospective study of people with autism through middle adulthood to date is being undertaken at the University of North Carolina. This study is looking at outcomes in middle adulthood of people with ASD and also examining the association between childhood functioning (autism severity, IQ, adaptive functioning) on these outcomes. The goal is to understand how these variables can predict quality of life, employment, friend-
From Dr. Grace Baranek, Associate Chair for Research

We are off to a great start for 2015 with much news to share! Several new faculty and staff have joined us in the Department of Allied Health Sciences (DAHS) – a very warm welcome to all! Dr. Debby Givens recently took the helm as the new Director for the Division of Physical Therapy (PT), and Dr. Jennifer Cooke joins PT as a new clinical instructor. Thank you to Dr. Lisa Johnston, interim director for PT, for her leadership and patience during the transition. Dr. Paul Chelminski added several new faculty in the Physician Assistant program – Dr. Marybeth McGranaghan, Ms. Margaret Beal, Mr. Todd Williams and Ms. Amber Wall, Program Coordinator, who are preparing for a site review prior to launching the new PA program in the coming year. Division of Occupational Science and Occupational Therapy welcomed Dr. Emily Furgang, Assistant Professor, and Dr. Ashley Freuler, Adjunct Faculty, who both served in other clinical and research roles at UNC prior to their new faculty appointments. Mostly recently, Ms. Tonya Jones McMannen joined DAHS Office of Research as our new Business Officer. We thank Ms. Tin Lay Nwe for all of her hard work and efforts with OOR previously!

This newsletter highlights some of our collective research and scholarship mid-way through the academic year, including new grants funded, new awards, and new initiatives. I want to especially acknowledge our stellar junior faculty, four of whom received UNC Junior Faculty Development Awards this Year to support their programs of research – congratulations to Drs. Dara Chan, Cara McComish, Katie Ollendick, and Prue Plummer!

Our methodologists, Drs. Zhang and Faldowski, have organized a new “Methodology Lunch and Learn” series that welcomes students and faculty to come together and discuss research topics informally. The first topic was “Everything you’ve wanted to know about stats and methods but were afraid to ask” – check the AHS calendar for dates/locations. Also, our newly redesigned DAHS research methods curriculum has been approved by the academic affairs committee. The new modular courses will take effect in the Fall, 2015, supporting students in three PhD programs: Occupational Science; Speech and Hearing Sciences; and Human Movement Science. We thank the full committee and the PhD program directors for their hard work in designing the courses and two-year sequence, as well as Ms. Susan Schulz for coordinating the massive effort, and Ms. Tamara Mesko for getting the new courses officially on the books.

Wishing you all a great year with exciting news to share!

Multidisciplinary UNC Study Investigates Parent Mediated Intervention for Infants at Risk for Autism

A group of University of North Carolina at Chapel Hill faculty members from the departments of Allied Health Sciences, Psychiatry, and Psychology, including Drs. Grace Baranek, Linda Watson, Lauren Turner-Brown, Samuel Field, Elizabeth Crais, Linn Wakeford, Lauren Little, and J. Steven Reznick, have authored a an article that will appear in the winter 2015 edition of Autism Research and Treatment, a peer-reviewed, open access journal. The article will outline results of a new study and demonstrate the promise of a novel parent-mediated intervention for improving developmental outcomes for infants at risk for Autism Spectrum Disorder (ASD) in a community sample. Eighteen families with a 1-year-old at risk for ASD were followed for more than 20 months to compare the effects of a new parent-mediated intervention called Adapted Responsive Teaching (ART) versus referral to early intervention and monitoring. Parents using ART showed enhanced parent-infant interactions, and their infants showed gains in sensory responsiveness as well as communication and socialization, as compared to those who did not use ART.

The parent-mediated intervention model asks parents to respond to their children during daily routines. For example, if the parent and child are eating dinner together and the child “coos,” the parents are trained in ways to respond. The parent may “coo” back at the child or start talking to the child about dinner. The researchers felt it important that the intervention not require significant time commitment from the parents. The study also highlights the value of earlier identification of ASD to facilitate earlier access to community services. Linn

Continued on page 5
“I am humbled and inspired by the opportunity to serve an institution and a state that have given me so much”
- Dr. Paul Chelminski

“I am honored to join the talented faculty and to serve as their leader as we work together to advance the mission and vision of the program”
- Dr. Deborah Givens

PhD Student Wins Scholarship
Nicole Corbin has been awarded a $5,000 ASHA scholarship. Nicole earned her AuD from Arizona State University before beginning the PhD program under the primary mentorship of Dr. Lori Leibold. Corbin is particularly interested in how unilateral hearing loss affects children’s development of the ability to hear in complex acoustic environments.

This academic year, Corbin has enjoyed co-teaching the undergraduate Introduction to Audiology course with Dr. Jack Roush, preparing a manuscript for submission to Ear and Hearing, developing her pre-dissertation project, and seeing patients and supervising AuD students in the UNC Hospitals ENT clinic. Corbin is a previous recipient of an Audiology/Hearing Science Research Travel Award (ARTA) to attend the American Speech-Language-Hearing Association (ASHA) Convention and a Graduate Student Mentored Research Poster Travel Award from the American Auditory Society/NIDCD, as well as a former LEND Fellow at Boston Children’s Hospital and trainee under Arizona State University’s U.S. Dept of Education Grant to Train Pediatric Audiologists.

Boyd Receives Grant
Dr. Brian Boyd, Assistant Professor in the Division of Occupational Science at UNC-CH has received $651,540 in a grant funded by the National Institute of Child Health and Human Development (NICHD/NIH). Over the course of the 5 years, Dr. Boyd will develop a measure that can sensitively measure incremental changes found when working with clients who have intellectual and developmental disabilities.

The measure, the Repetitive and Inflexible Behavior Inventory (RIBI), will be used in clinical trials in which people with intellectual disabilities were often excluded because there are not psychometrically-validated measures that capture changes in the population. The RIBI is a parent report measure for children ages 3-18 with intellectual disability and it will focus on behavioral inflexibility and rigidity; this symptom is characteristic of many neurodevelopmental disorders, in particular autism spectrum disorder, and greatly interferes with these individuals’ adaptive functioning and participation.
### New Grants Awarded (July 1-December 31, 2014)

<table>
<thead>
<tr>
<th>Title</th>
<th>Award Amount</th>
<th>Sponsor</th>
<th>Begin Date</th>
<th>End Date</th>
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<tbody>
<tr>
<td>Patterns and Variations in Emergency Department Visits for U.S. Children with Autism: A Rural-Urban Comparison</td>
<td>$97,381.00</td>
<td>Maternal and Child Health Bureau</td>
<td>9/1/14</td>
<td>8/31/15</td>
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<tr>
<td>Real World Assessment of Dual-Task Performance After Stroke</td>
<td>$242,824.00</td>
<td>National Institute of Child Health and Human Development (NICHD)</td>
<td>8/23/14</td>
<td>7/31/15</td>
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<tr>
<td>Investigating Visual Attention to Print in Children with Rett Syndrome</td>
<td>$28,449.00</td>
<td>Appalachian State University (Sponsor); Rett Syndrome Research Trust (Prime)</td>
<td>10/1/14</td>
<td>9/30/15</td>
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<tr>
<td>Sensory over-reactivity and anxiety disorders in young children with autism spectrum disorder:</td>
<td>$67,041.00</td>
<td>Department of Defense (DOD)</td>
<td>9/30/14</td>
<td>9/29/17</td>
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<tr>
<td>Training Innovation in the Rehabilitation of Individuals Who Are Mentally Ill: Meeting Consumer and Employer Needs</td>
<td>$150,000.00</td>
<td>US Department of Education (DOED)</td>
<td>10/1/14</td>
<td>9/30/19</td>
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<tr>
<td>Evidence-Based, Diversity-Sensitive Practice in the State-Federal Public Vocational Rehabilitation System: Innovative Training Solutions</td>
<td>$200,000.00</td>
<td>US Department of Education (DOED)</td>
<td>10/1/14</td>
<td>9/30/19</td>
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<tr>
<td>Developing Research Careers in the Hearing Sciences</td>
<td>$7,492.00</td>
<td>Vanderbilt University Medical Center</td>
<td>6/1/14</td>
<td>7/31/14</td>
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<tr>
<td>A Pilot Study on Care Pathways and Long-term Outcomes for Patients with Severe</td>
<td>$5,000.00</td>
<td>University Research Council</td>
<td>1/1/15</td>
<td>12/31/15</td>
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<tr>
<td>The Effect of Environment and Cognitive Load on Gait in People with Multiple Sclerosis</td>
<td>$7,500.00</td>
<td>Junior Faculty Development Award</td>
<td>1/1/15</td>
<td>12/31/15</td>
</tr>
<tr>
<td>Pilot Study of the Pediatric Eating Assessment Tool (Pedi-EAT)</td>
<td>$7,500.00</td>
<td>Junior Faculty Development Award</td>
<td>1/1/15</td>
<td>12/31/15</td>
</tr>
<tr>
<td>Fall Reduction in the Aging Population with Intellectual and Developmental Disabilities</td>
<td>$7,500.00</td>
<td>Junior Faculty Development Award</td>
<td>1/1/15</td>
<td>12/31/15</td>
</tr>
<tr>
<td>Testing Novel Approaches to Accessibility and Community Integration Measurement for Adults with Autism Spectrum Disorder (ASD):</td>
<td>$7,500.00</td>
<td>Junior Faculty Development Award</td>
<td>1/1/15</td>
<td>12/31/15</td>
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<tr>
<td>Using Structured Teaching to Promote Employment Skills in Adolescents with ASD:</td>
<td>$120,000.00</td>
<td>Autism Speaks</td>
<td>12/30/14</td>
<td>12/31/16</td>
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</tbody>
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**Research Team Receives Editors’ Award from American Journal of Speech-Language Pathology**

Speech and Hearing Sciences Professors Linda Watson and Betsy Crais, Occupational Science Professor Grace Baranek, and Speech and Hearing Sciences PhD graduates Jessica Dykstra and Kaitlyn Wilson authored an article that received the 2013 Editors’ Award from the American Journal of Speech-Language Pathology. The award will be presented at the American Speech-Language Hearing Association conference in November. The article, titled “Communicative Gesture Use in Infants With and Without Autism: A Retrospective Home Video Study,” compared the use of gestures in infants with autism to infants with other developmental disabilities or with typical development. The authors concluded “differences in gesture use in infancy have implications for early autism screening, assessment, and intervention.” Wilson (MS-SLP Class of 2006 and 2012 PhD graduate) is now post-doctoral fellow at Kennedy Krieger Institute Center for Autism and Related Disorders (CARD). Dykstra (MS-SLP Class of 2004 and 2013 PhD graduate) is an investigator at Frank Porter Graham Institute working with the Center on Secondary Education for Students with Autism Spectrum Disorders. Read more at www.alliedhealth.unc.edu/sphs/news/research-team-editors-award.
12 RCP Students Attend Annual Conference

On October 22nd, 2014, 12 Rehabilitation Counseling and Psychology students presented at the NC Rehabilitation Association Annual Conference in Greenville, NC. The title of this year’s conference was The Great Conference—Follow Your Yellow Brick Road to Endless Possibilities. Students presented their master’s research. The theme of the conference was assistive technology. Many students reported positive experiences at the conference. Sharyn Button, 2nd year master’s student, said “I really enjoyed my time at the GREAT Conference in Greenville. It was interesting to learn about the different types of assistive technology available for individuals with a variety of disabilities. It is one thing to learn about assistive technology in a classroom, but it was an entirely different experience altogether learning about these devices in person. I plan on using what I gleaned from the GREAT Conference in working with my future clients.”

Students also noted that presenting at the conference gave them an opportunity to learn how to develop their research. The attendees “seemed very interested in my poster and were able to provide me with tips on how to continue the project,” noted 2nd year master’s student Michael Galombardi. In addition to student presentations, two faculty members, Judy Schmidt and Eileen Burker, also gave talks at the conference.

Faculty and PhD Students Participate in Joint International Conference in OS

The 2014 Society for the Study of Occupation: USA, the Canadian Society of Occupational Scientists, and the International Society for Occupational Science Joint International Conference in Occupational Science, hosted by St. Catherine University, convened October 16-18 in Minneapolis, Minnesota. The purpose of the conference was to foster collaboration in research and education on occupation by bringing together scholars who are committed to advancing the knowledge base of occupational science.

UNC presentations included:

- Deepening the Investigation with Limited Time: Rapid Ethnographic Methods and Crossthreads: Craftwork and Social Justice in a Guatemalan Context by Jennifer Womack
- Situated Methodology: Narrative as Tool to Access Situated and Enacted Qualities of Occupation by Virginia Dickie and colleagues
- Illuminating Family Practices: Methods and Challenges by Ruth Humphry, Nancy Baggott, and Adrienne Miao with Helen Lynch
- Transition: The Occupation of Changing Occupations by Emily Kertcher
- The Transactional Perspective: An Appraisal of Theory and Application in Research by Antoine Bailliard and Virginia Dickie
- Meaningful Connections Between Disciplines: The Occupation of Parenting from a Life Course Perspective by Chetna Sethi
- Defining Occupation: A Move Towards Globalization and Interdisciplinary Partnerships by Nikhil Tomar
- Conceptualizing Meaning with Semiotic Mediation: Expanding the Conversation by Khalilah Johnson

Autism Foundation Grant

Wakeford, Associate Professor at UNC-CH and researcher in the study noted “parents would use [this intervention] with their kids and you would just watch this beautiful interaction as they imitate each other or get eye contact with each other...It was great to see parents have a realization and say ‘I have the ability to support my child in everyday activities.’” The intervention focused primarily on families who spoke English. However, Linn noted that the research team hopes to develop an intervention for families who speak Spanish.

“IT was great to see parents have a realization and say ‘I have the ability to support my child in everyday activities.’” - Prof. Linn Wakeford

On page 2

On page 1
Sadie Schwarz and Jenna Browning, third-year graduate students in UNC’s Doctor of Audiology (AuD) program, were each awarded T35 Research Traineeships for the summer of 2014. Schwarz completed her research experience at Vanderbilt University under the mentorship of Dr. Ben Hornsby with a focus on behavioral and subjective listening fatigue. Browning’s research experience at Boysen National Research Hospital in Omaha was mentored by Dr. Ryan McCreery with a focus on hearing aid features designed to improve the understanding of speech in children with hearing loss. Their work will be presented at the annual convention of the American Auditory Society in 2015. Both students described the summer experience as a valuable learning opportunity and an ideal complement to their Leadership Education in Neurodevelopmental and Related Disabilities (LEND) program training at UNC. Schwarz and Browning are funded by a supplemental grant to LEND aimed at increasing the number of audiologists with knowledge and skill in specialized areas of pediatric audiology.

Neurodiagnostics and Sleep Science (NDSS) Program Director Mary Ellen Wells successfully completed her PhD in Curriculum and Instruction at North Carolina State University. With a concentration in Instructional Technology, Dr. Wells said she was able “to immediately incorporate the latest tips, tricks, and online instructional strategies I learned from my studies at NCSU right into the NDSS courses.” Dr. Wells’ dissertation, titled ‘Mobile Learning in Medical Education: A Case Study Through the Lens of Sleep Education,’ involved creating a sleep medicine ‘App’ for smartphones and tablets. Department of Neurology residents participated in the project, which addressed a gap. As Dr. Wells put it, “There really aren’t any sleep apps for physicians or other health care workers, and my hope is to continue this project to provide easily accessible sleep education to many health care disciplines.”

Brittney Luc was awarded the Clint Thompson Award for Clinical Advancement by the Journal of Athletic Training for her publication entitled “Osteoarthritis prevalence following anterior cruciate ligament reconstruction: A literature review and numbers-needed-to-treat analysis.” Her advisor was Brian Pietrosimone.

UNC Physical Therapy faculty members Drs. Prudence Plummer, Michael Lewek, and Debbie Thorpe secured a grant earlier this year from the UNC School of Medicine translational science initiative along with private funds from a recent gift to the Division of Physical Therapy from the St. John Charitable Trust to purchase a new piece of research equipment that will allow them to study the metabolic demands of activity on study participants faced with a range of physical disabilities. The state-of-the-art Cosmed K4B2 portable metabolic measuring unit is equipped with GPS tracking and will allow the UNC PT faculty team to measure the metabolic parameters of participants in a variety of settings. Drs. Lewek, Thorpe, and Plummer plan to use the new equipment (shown below) in research projects in the areas of adult onset stroke and cerebral palsy.

Sadie Schwarz, Jenna Browning, and Dr. Jack Roush

Dr. Mary Ellen Wells

Sadie Schwarz

Jenna Browning and Dr. Jack Roush
STUDENT SPOTLIGHT

KATIE BELARDI

By Skip Ryan

As a little girl, Katie Belardi was one of those students who always had her hand up asking, “Why?” As she got older, her questions became more complex and she was often left with unsatisfactory answers – “There’s no research on that,” “The research is inconclusive,” or “We don’t know.” Her academic curiosity grew as an undergraduate at Duquesne University, in Pittsburgh, studying Health Sciences and it continued through her master’s degree in Speech-Language Pathology, also at Duquesne. It was during this time that Katie realized that she could actually discover the answers to some of these questions by pursuing her PhD in speech and hearing sciences.

Since beginning her PhD program at UNC Chapel Hill in 2010, Katie has advised UNC’s National Student Speech Language and Hearing Association (NSSHLA) chapter, taught Research Methods and Design to the speech and hearing sciences master’s cohort, and mentored student research projects. She was a teaching assistant for two courses - Neuroanatomy and Language Disorders. On the research side, Katie has served as a research assistant on the Advancing Social Communications and Play Project under Dr. Brian Boyd and Dr. Linda Watson. In addition, Katie has been an integral member of the department’s Research Advisory Committee, serving as the PhD student representative. In this role, Katie has been an active participant in strategic planning, growing the department’s research programs, and sharing ideas regarding the department’s visibility as well as in writing and editing the Inside AHS e-news and the department’s Research Newsletter.

STAFF SPOTLIGHT

LARA COSTA

By Katie Belardi

Lara fell in love with research unexpectedly. She started graduate school at UNC after teaching children with special needs. Lara pursued a master’s degree to improve teacher practice and student outcomes. She expected she would meet this goal via “teaching teachers,” but, through her experiences, she learned the power of research. As part of the Leadership Education in Neurodevelopmental Disorders (LEND) program and the Maternal and Child Heath Bureau Leadership program as an education trainee at the Center for Development and Learning (CDL), she was a research assistant with Dr. Steve Hooper. She also worked with Dr. Jeff Greene in his Cognition and Learning Lab at the UNC School of Education. These research opportunities shaped a new perspective. As she says, “During these research experiences I realized that through research I can make significant advances in the teaching, learning and policies that frame literacy, especially written expression.” These research experiences coupled with a growing passion for statistics attracted her to research.

Her love for research inspired her to pursue a PhD in Educational Psychology, Measurement and Evaluation at UNC’s School of Education. Now, she serves as both a research specialist for the Department of Allied Health Sciences and project director for Dr. Hooper’s Middle School Writing Project.

Among Katie’s top priorities is her own research. Her interest in infant vocalizations and language development led to her involvement in a research project studying vocalization and development in children with autism spectrum disorders. This research, in turn, raised questions and suggested directions for her dissertation research on early vocalizations and parent responses of children with Fragile X syndrome, under the mentorship of Dr. Linda Watson. With a focus on translating research into practice, Katie hopes to provide information for practitioners and families of individuals with neurodevelopmental disorders to help with their speech and language skills.

Beyond academics and research, Katie is passionate about fitness—whether it is running, kettlebell workouts, or playing sports. Whatever she does, it seems to be working! Capable, upbeat, and engaging – all describe Katie. When Katie becomes Dr. Belardi this spring, she is destined to make a difference in the world, both in research and teaching. After graduating, she hopes to continue her research and become an assistant professor. “I’d like to work as an academic, but also have a strong connection to local school systems, working with teachers, speech pathologists, and students,” she said.

She began her current position in 2012 when Dr. Hooper was awarded a four-year grant to study the impact of an evidence-based writing program for middle school students struggling with written expression. As the project director for the Middle School Writing Project, she facilitates all components of the project (i.e., recruitment, assessments, intervention). She also co-wrote several grant proposals for the most recent calls from federal agencies (e.g., IES, NSF, and NIH), and plans to write several more this year.

Despite writing numerous grants proposals and keeping abreast of the most current statistical analyses, Lara still spends time in the schools. She particularly enjoys working with teachers and students, while also being a part of a research team at a Research 1 University. “The direct interaction with teachers and students keeps me happy and engaged, as well as giving me the feeling of involvement.” After the work day is done, Lara enjoys spending time with her husband and their three-year-old son, cooking with her mom, camping with friends, and dancing.
2015 Zemke Lecturer

Dr. Ruth Humphry

Ruth Humphry, PhD, OTR/L, Director of the UNC Division of Occupational Science and Occupational Therapy, has been selected to deliver the 2015 Ruth Zemke Lecture at the 2015 SSO-USA Conference in Occupational Science, hosted by the Occupational Therapy Department at Nova Southeastern University, October 1-3, 2015, in Ft. Lauderdale, Florida. Her presentation titled *Appropriation and transformation of occupations: So what is know-how anyway?* will target the development of children’s occupations. Dr. Humphry noted “Children move through a variety of cultural settings where they participate in the practices of their families, classrooms, and peers on the playground. By being engaged in social situations they not only learn performance of activities, they become skillful in being in these situations. However, they appropriate the cultural mannerisms and meanings surrounding the activities that can be unique to the different settings. I will suggest that occupational performance is emergent with feed forward and feedback occurring simultaneously and that embodiment supports this process in a number of ways. Coming from a situated transactional perspective of occupations I will explore how young people navigate the processes of acquiring occupations and evolve skill in doing the things they do.”

Efforts to Reach Underserved Children with Autism and Their Families: Collaboration with Faith Leaders

In an effort to reach underserved young children, researchers have joined forces with local faith leaders to increase the early identification of children with autism and other developmental disabilities and to facilitate the inclusion of individuals with autism in faith communities. Drs. Betsy Crais (Division of Speech and Hearing Sciences), Dr. Becky Pretzel (Carolina Institute on Developmental Disabilities) and Ms. Maureen Morrell (Autism Society of North Carolina) received a grant from the Association of Maternal & Child Health Programs (AMCHP) with funding from the Centers for Disease Control and Prevention, National Center on Birth Defects and Developmental Disabilities, to work with faith communities.

The purpose of the AMCHP grant is to promote the CDC’s “Learn the Signs, Act Early” campaign. This campaign is aimed at improving early identification of children with autism and other developmental disabilities so that children and families can get the services and support they need. After receiving an inquiry from a church in Fayetteville, Crais, Pretzel, and Morrell began collaborating with the Autism Society of Cumberland County to address the needs of faith communities in the Fayetteville area. They helped put together a workshop at Fayetteville’s Manna Church in October entitled Autism: How Faith Communities Can Help which was attended by over 100 faith leaders and community members from a variety of faith organizations in Fayetteville. Topics included *Identifying Children with Autism: the Role of Faith-Based Communities* and *Ten Things Every Child with Autism Wishes You Knew*. A follow-up workshop on February 7, *Faith Communities: Practical Strategies for Supporting People with Autism*, was equally well-attended.

As Dr. Crais noted, “This non-traditional project helped us connect with families and faith leaders ...”

- Dr. Elizabeth Crais

Radiologic Science Faculty Win National Writing Award

Professors Melissa Culp, James Barba (retired), and Melissa Jackowski received the American Society of Radiologic Technologists’ 2014 Jean I. Widger Distinguished Author Award for their article entitled, "Shield Placement: Effect on Exposure" published in the March/April 2014 issue of Radiologic Technology. All peer-reviewed manuscripts published in Radiologic Technology during the 2014 calendar year were considered. The ASRT Editorial Review Board of Radiologic Technology selected this article as the outstanding manuscript of 2014.