The Clinical Internship celebrates its sixth year

Niger

An Extra-Special Connection
A student in the Program shares her miraculous story.

MnDRIVE & the MN State Fair
Unique partnership on display at the State Fair.

75th Anniversary Celebration
The program is having a Birthday, and you are invited!
WINTER 2014-2015

3 Message from the Director
Updates from the desk of Program Director Dr. LaDora Thompson.

5 Geriatric Residency
Announcements from the Geriatric Clinical Residency.

6 Niger
Cover story about the international internship program’s anniversary.

8 Associated Faculty
News and updates about the Program’s Associated Faculty.

9 MnDRIVE
All about the MnDRIVE Initiative and its presence at this past Minnesota State Fair.

11 Rehabilitation Science
News, updates, and announcements from the Rehabilitation Science Program.

15 New Faculty
Welcoming the newest faculty members to the Program in Physical Therapy.

18 75th Anniversary
The Program will be celebrating its 75th Birthday!

21 An Extra-Special Connection
A student from the Class of 2017 shares a personal story about her and her sister.

23 Awards & Recognitions
Join the Program in Physical Therapy as we recognize the accomplishments of our students and faculty.
Message from the Director.

Dear Alums and Friends,

For almost 75 years, the Program in Physical Therapy at the University of Minnesota has graduated students who have become physical therapists practicing in varied clinical settings. Our graduates provide individualized, diagnosis-based care aimed at optimizing movement to enhance function and improve quality of life. Indeed, our graduates are outstanding practitioners, equipped to evaluate, diagnose and treat the human movement system.

Today's students in our Doctorate of Physical Therapy education program share that same tenacity and creativity, as well as the same celebration of unrestricted thinking as previous graduates. The Class of 2017, who entered the halls of Children’s Rehabilitation Center in July 2014, is comprised of 50 charismatic and strategic thinkers. The students in the Class of 2017 come to us well prepared, from public and private undergraduate institutions from across the United States, and with an outstanding array of academic and personal achievements. The undergraduate majors span all disciplines (e.g., molecular biology, social sciences, history, English) and their clinical experiences are impressive. They came to the University of Minnesota to begin their journey as physical therapy students, yet they will be tomorrow’s leaders to drive optimization of movement system function across the lifespan. During their educational journey, we strive to cultivate a culture of innovation. Through popular initiatives like National Student Conclave, international internships, Legislative Day, and others, our students are encouraged to leverage their ideas into our profession and to become leaders.

Our faculty, staff and students are actively engaged in, and value all aspects of, our mission that integrates research, education and practice. In this past year we have made a bold commitment to grow our core faculty and staff members. We welcome Ann Van de Winckel, PhD, PT, Wynn Legon, PhD, and Teresa Bisson, PT, MSPT, NCS, ATP. Collectively, they bring clinical experience in neurorehabilitation, research expertise in neuroplasticity, and a desire to train the next generation of clinicians and clinician scientists. These new faculty members synergize with the current strengths of our faculty and expand our distinction within the Medical School and Academic Health Center. We welcome Elena Montalto, MBA who joins our administrative team, which provides our Program in Physical Therapy with essential activities in a seamless style. In 2015, Drs. Manda Keller-Ross and Arin Ellingson will join our faculty and Caryn Korman will be our Director of Alumni Relations. Caryn will spearhead the Program in Physical Therapy's upcoming 75th Anniversary.

There is no question in my mind today that a Doctorate of Physical Therapy, DPT, is one of the greatest gifts that can be bestowed upon an individual. It enriches his or her quality of life. It deepens that person’s intellectual and spiritual awareness, and widens his or her sense of what life can hold. And today, more than ever, it improves the quality of life of others, his or her patients.

When our students graduate with their DPT degree from the University of Minnesota, we want them to leave and enter the profession from a position of strength. As they negotiate their first clinical position, pursue residencies or fellowships, take on leadership roles in the profession and their communities, and start families, the Program in Physical Therapy has a responsibility to ensure that the choices they make are not unduly driven by the management of education debt. Our goal is to ensure that our DPT education remains a viable option for bright and deserving students. Through your support, this goal is attainable. Indeed, at the heart of the University of Minnesota Program in Physical Therapy’s success is the help of dedicated alumni, alumnae, and friends.

On behalf of my colleagues, and current and future generations who will enter the profession of physical therapy at the University of Minnesota, thank you. I encourage you to take a look at the enclosed articles and to rediscover today’s students, faculty, and staff.

LaDona Thompson
Welcome, Class of 2017!

The DPT Program officially welcomed the Class of 2017 this past summer during the Annual Program Picnic. The University of Minnesota DPT Program continues to attract the highest caliber of students. This year, 239 applicants submitted their application to our program. We filled our 50 spots by the end of October 2013. Our new students have an average GPA of 3.67 and an average of 389.90 PT hours. Eighty percent of our students are from Minnesota with 36% of those students receiving their undergraduate degree from the University of Minnesota.

We are delighted our new students chose the University of Minnesota’s DPT Program. They bring with them a variety of life experiences that helps to enrich the learning experience. Our students love the outdoors, music, travel, and many of them were high school and/or college athletes. In keeping with tradition, Program faculty, and students played a thrilling game of volleyball. Welcome, Class of 2017!

Graduation 2014.

The University of Minnesota Program in Physical Therapy congratulates the DPT Class of 2014 who graduated on Saturday, June 21, 2014. The commencement ceremony was held at the newly renovated Northrop Memorial Auditorium.

The Class of 2014 selected Mr. Mike Patrick to be their keynote speaker due to his personal experience with physical therapy after a life-altering spinal cord injury at age 16. Other speakers were Dr. Kathleen Anderson, PhD, MBA, PT, OCS (faculty speaker) and Paul Glatt, SPT, Class of 2014 (student speaker). Diplomas were presented by Associate Program Director Becky Olson-Kellogg, PT, DPT, GCS; University of Minnesota Regent Laura Brod; Medical School Representative Dr. Mark Rosenberg; Academic Health Center Representative Terry Bock; and Class Advisor Becky Olson-Kellogg.
Geriatric Residency.

Congratulations to Miranda Beck, PT, DPT who successfully completed the Geriatric Clinical Residency in August 2014. Miranda’s clinical site was at St. Therese in New Hope and she plans to continue working with St. Therese. Elizabeth Sander (2014 graduate from Mayo) and Samuel Vukov (2014 graduate from St. Kate’s) began their residency year in September, at St. Therese and Augustana in Apple Valley respectively. We wish Miranda the best in her career, and we welcome Lizzy and Sam!
In March of 2014, one student, (Hannah Bilodeau, DPT, Class of 2014), one clinical faculty (Greg Santema), and three academic faculty (Jeanne Lojovich, LaDora Thompson and Jim Carey) visited the Medical School of the Université Abdou Moumouni and several clinics in Niamey, Niger.

This marked the sixth year that the U of M Program in Physical Therapy has sent students, accompanied by faculty, on a clinical internship to Niger. Activities included evaluating and treating patients, teaching medical students rehabilitation principles, and meeting with Université and governmental officials to plan for a future Physical Therapy School there. Progress on the PT school is slow but steady. Learning for all was intense because of so many unique conditions there and was very satisfying. PT alumni who might be interested in joining us for a future visit can contact Jim Carey (carey007@umn.edu).

PT Alumni who might be interested in joining us for a future visit can contact Jim Carey (carey007@umn.edu).
The physical therapy profession has recognized the need for scientific research to refine and develop the most effective diagnosis and treatment practices in rehabilitation and health promotion and wellness. Students work directly with faculty performing state of the art research that is routinely published in national and international scientific journals. The Research Poster Presentation is a result of that work.

**Poster Day 2014.**

Chad Cook, PT, PhD, MBA, FAAOMPT presented the 15th Annual Jack Allison Lecture on Saturday, November 1, 2014 at the McNamara Alumni Center. His topic “Separating the Wheat from the Chaff: Making Sound Clinical Judgments Using Evidence” drew 60 participants and received excellent reviews. He presented strategies to understand the evidence related to diagnostic tests, how to best use the tests in management decisions, and a review specific of tests and measures and their usefulness. He also presented the Rehabilitation Seminar titled "Primary Results and Secondary Analyses from the Thrust versus Non-Thrust Manipulation Trial" and met with PhD students on Friday. We were very pleased to host such a distinguished speaker and provide an important educational topic to the professional community.

**Jack Allison Lecture.**

Chad Cook, PT, PhD, MBA, FAAOMPT presented the 15th Annual Jack Allison Lecture on Saturday, November 1, 2014 at the McNamara Alumni Center. His topic “Separating the Wheat from the Chaff: Making Sound Clinical Judgments Using Evidence” drew 60 participants and received excellent reviews. He presented strategies to understand the evidence related to diagnostic tests, how to best use the tests in management decisions, and a review specific of tests and measures and their usefulness. He also presented the Rehabilitation Seminar titled "Primary Results and Secondary Analyses from the Thrust versus Non-Thrust Manipulation Trial" and met with PhD students on Friday. We were very pleased to host such a distinguished speaker and provide an important educational topic to the professional community.
As always, we are fortunate to have many skilled clinicians teaching in our Program. We have added several people in the past year: Amanda Simone, PT, from the VA Medical Center joined us January 2014, and Justin Blood, PT, OCS of Courage Kenny Sports and Physical Therapy comes January 2015, both assisting with Therapeutic Procedures. Jacque Ruen, PT, OCS, of NovaCare is assisting with Musculoskeletal Rehab and first year Clerkship precepting. Due to faculty changes, Kathleen Picard, PT, has added Clerkship III and IV to her teaching, and Martha Wood, PT, has added Clerkship I, teaching and precepting, and Kristen Johnson, PT, DPT, NCS, has added Clerkship II. Many thanks to these great clinicians. Henry Lozano, PT, will coordinate Therapeutic Procedures this spring as Becky Olson-Kellogg serves as Interim DCE.

Lynnette Leuty, PT, NCS, after many years of teaching the Neurorehabilitation course, has decided to step back to spend more time with her family. We thank her for her excellent dedication and contribution to our Program, and wish her the best in her next endeavors.

Jerry Juhl, PT, has also moved on – to Switzerland! His family will be in Lausanne for three years for a professional opportunity for his wife, so we will miss him in Musculoskeletal Rehabilitation and hope that he enjoys this adventure.

Pam Cole, PT, CWS took another service trip to Deschapelles, Haiti, with her colleague, Jennifer Quisberg, MPT, CWS to work with the patients and staff at Hospital Albert Schweitzer. They were successful in creating a long range plan with the staff to increase the wound care education and treatment skills. They are both excited about the relationships they have established and we are proud of the good work our Associated Faculty do.

Bike Challenge Follow-Up.

As a follow-up to our Bike Challenge, "Team Rehabilitation" won the Golden Bike Award in Spring 2013 by riding to school more than any other campus team! The golden bike and placard have finally been placed on campus in front of Coffman Union. Congratulations to those bicyclists who rode through the winter into spring to victory!
Top photo: L->R Rehabilitation Science PhD Student Tonya Rich, OTR/L, and Faculty Member Bernadette Gillick, PhD, MSPT, PT.

Right photo: Students and attendees at the booth.

Bottom right photo: Faculty Member Wynn Legon, PhD, chatting with booth attendees.

Bottom left photo: L->R Wynn Legon, PhD, Rehabilitation Science PhD students Jessica Cassidy and Kate Frost, and Faculty Member Jim Carey, PhD, PT.
The lab members of the Program in Physical Therapy’s Brain Plasticity Laboratory had the unique opportunity to share their involvement with the MnDRIVE Initiative (http://mndrive.umn.edu/) at the Minnesota State Fair 2014. MnDRIVE (Minnesota’s Discovery, Research and Innovation Economy) is a landmark partnership between the University and the State of Minnesota. MnDRIVE’s goal is to foster innovation through strategic business collaborations between the University and the state’s key industries, to advance Minnesota’s economy and enhance the University’s ability to produce breakthrough research that addresses our state’s and society’s greatest challenges. In 2013, the Minnesota Legislature authorized an $18 million annual investment in four core research areas:

- Global food ventures
- Robotics, sensors and advanced manufacturing
- Advancing industry, conserving our environment
- Discoveries and treatments for brain conditions

Through faculty hires, traineeships in neuromodulation, and infrastructure (research staff support and core facilities), MnDRIVE has enhanced the capacity of our program researchers to make discoveries that will lead to new treatments for brain conditions.

Within our Program in Physical Therapy, funding from MnDRIVE Discoveries and treatments for brain conditions (http://mndrive.umn.edu/brain) provided start-up and ongoing salary support to hire Dr. Wynn Legon (included in another section of this newsletter) and fellowships for PhD students Mo Chen and Tonya Rich OTR/L. With this funding, the co-directors of the Laboratory, Drs. Carey, Kimberley, Gillick, Legon and Van de Winckel, together with Drs. Bin He (Institute for Engineering in Medicine, Department of Biomedical Engineering) and Kelvin Lim (Department of Psychiatry), and other U of MN investigators, have recently been able to develop a new University of MN Noninvasive Neuromodulation Research Laboratory, a resource devoted to transdisciplinary research collaboration and discovery.

On August 30th and 31st, brain scientists from across the University came together in the Health Zone of the State Fair’s U of MN Building to highlight neuroscience research and clinical care for brain conditions. For two full days, our faculty and students did an outstanding job in representing the Program in Physical Therapy, the Brain Plasticity Laboratory, and MnDRIVE. We were able to share word of our exciting research discoveries in non-invasive brain stimulation and rehabilitation with hundreds of fair-goers. What an honor to be able to represent the work of our Program and MnDRIVE at such an exciting venue, and to join forces with other University of MN Programs dedicated to discovering new treatments and therapies for brain conditions. We really let the good people of Minnesota know we are doing great things with their tax dollars! For more information on the Program in Physical Therapy’s Brain Plasticity Laboratory, please visit our website, bpl.umn.edu.
Rehabilitation Science announces three graduates this year: Jessica Cassidy, Corey McGee, and Sanjay Sarkar.

Sanjay Sarkar completed his PhD under the guidance of Dr. Paula Ludewig, Professor, Physical Therapy Program, and Director of Graduate Studies, Rehabilitation Science Program. Sanjay’s thesis, “Comparison of 3D Shoulder Kinematics, Thoracic Posture and Shoulder Strength between Asymptomatic Elderly and Young Population,” was defended in May. He is currently instructing at Minnesota State University - Mankato in its Aging Studies/Gerontology Program.

Corey McGee defended in July. His PhD project “Required Hand Grip Forces for Successful Manual Task Performance Among Women in Hand Arthritis” was mentored by Dr. Virgil Mathiowetz, Associate Professor and Assistant Director, Program in Occupational Therapy. Dr. McGee is currently on faculty in the Occupational Therapy Program here at the University of Minnesota - Twin Cities and Rochester.

Jessica Cassidy is the Program’s most recent graduate, having defended in December 2014. Jessica is mentored by Dr. James Carey, Professor, Physical Therapy Program. Dr. Cassidy has had a busy December. After her defense, she headed to California where she is currently in a Post-Doctorate Fellow position in the Department of Neurology at the University of California-Irvine. Jessica’s thesis was “Optimization of Repetitive Transcranial Magnetic Stimulation with Priming in Chronic Stroke.”

We congratulate all of our graduates...past and future! Good work!

...And We Welcome New Students...

The Rehabilitation Science Program welcomed three new students this year: Christine Cabelka, Jennifer Hutson, and Tammy Vos-Draper.

Christine Cabelka is a Physical Therapist and board certified Women’s Health Clinical Specialist, having joined our ranks after her most recent position as therapist at Johns Hopkins Hospital in Baltimore. Christine completed both her MA and BA from The College of St. Scholastica in Duluth, MN. She will pursue her studies under the guidance of Dr. Dawn Lowe.

Jennifer Hutson is an Occupational Therapist who joins Rehabilitation Science with extensive teaching and research experience, specifically with assistive technology. Jennifer received her MS degree in Occupational Therapy from the University of Illinois at Chicago and her BA in Psychology from Northern Illinois University in DeKalb, IL. Her time within Rehabilitation Science will be mentored by Drs. Patricia Schaber and Peggy Martin.

Tammy Vos-Draper is currently an Occupational Therapist in the Department of Physical Medicine and Rehabilitation at Mayo Clinic in Rochester, MN. Her experiences at Mayo find her looking to strengthen and continue development in statistics, research protocol design, and use of measurement tools for movement analysis. With that, Tammy joins the Rehabilitation Science student body under the guidance of Dr. Virgil Mathiowetz and Dr. John Ferguson. Dr. Mathiowetz is faculty in Occupational Therapy, and Dr. Ferguson is affiliate faculty member in Rehabilitation Science, with a primary position at the VA Medical Center.
Rehab Science Student Highlights.

The Rehabilitation Science Program continues to train the next generation of rehabilitation research scientists. We are proud of our growth and sustained excellence. A selected sample of highlights from this past year: Several students have been awarded competitive Minnesota Discovery, Research and InnoVation Economy (MnDRIVE) awards this past year. The MnDRIVE initiative is a landmark partnership between the University of Minnesota and the State of Minnesota to advance Minnesota’s economy and enhance the University’s ability to produce breakthrough research.

We congratulate Rehabilitation Science students Divya Bhaskaran, Kate Frost, Tonya Rich, and Justin Staker. All are recipients of MnDRIVE awards. Divya’s research is supported in part through MnDRIVE’s Robotics, Sensors and Manufacturing division. Her advisor is Dr. Paula Ludewig. Kate received a MnDRIVE Brain Conditions Graduate Fellowship in October. Kate is advised by Dr. Jim Carey. The research focus area for Kate’s work looks to advance discoveries and treatments for brain conditions. Tonya’s award is in the area of Neuromodulation. Tonya is advised by Dr. Bernadette Gillick. Justin’s MnDRIVE was awarded from the University’s College of Science and Engineering. Justin is advised by Dr. Paula Ludewig.

For more information on the MnDRIVE Initiative, please visit: http://mndrive.umn.edu

Congratulations to Becky Lawrence on two recent publications in the Journal of Orthopedic Sports Medicine (JOSPT), one of which she collaborated on with fellow student, Justin Staker. Both publications were mentored by Becky’s advisor, Dr. Dawn Lowe. Becky also partnered with her colleague, Tara Mader, for invited presentations at the 13th Biennial Advances in Skeletal Muscle Biology in Health and Disease Conference in Gainesville, FL, in March of 2014.

The Rehabilitation Science Program proudly acknowledges Haiming Liu for being awarded a Doctoral Dissertation Fellowship from the Graduate School for the 2014-2015 academic year. Haiming is advised by Dr. LaDora Thompson. Her thesis is titled “Identifying the Differences between LMP7-/-/MECL1-/-Knockout Mice and Wild Type Mice (frail mice)”. The Doctoral Dissertation Fellowship (DDF) program gives the University’s most accomplished PhD candidates opportunity to devote full-time effort to an outstanding research project by providing time to finalize and write a dissertation during the fellowship year.

The American Federation for Aging Research (AFAR) and Glenn Foundation awarded Tara Mader a Pre-Doctoral Research Award. The award will be applied toward Tara’s dissertation project titled, “Estrogenic Protection against Oxidation and Strength Loss in Aged Skeletal Muscle”. This project focuses on the loss of skeletal muscle function associated with aging, specifically aging which is exacerbated in women at the time of menopause due to a decline in estrogen levels. Tara is advised by Dr. Dawn Lowe.
Tonya Rich was awarded the 2014 American Academy of Cerebral Palsy and Developmental Medicine (AACPDM) Scholarship to attend their annual meeting in San Diego in September, 2014. Tonya joined the Rehab Science Program in 2013 and works under the guidance of Dr. Bernadette Gillick, in the Gillick Pediatric Research Lab. AACPDM is an academy of over one thousand members of multiple professional disciplines dedicated to the improvement in the care of people with childhood-onset disabilities, their families and communities.

Rebekah Schmidt was awarded "Best Poster - 3rd Place" at the 2nd Annual MN Neuromodulation Symposium for her poster titled, "Effect of rTMS and Sensorimotor Retraining in Focal Dystonia." The Symposium took place in April at the Commons Hotel on the campus of the University of Minnesota, and followed the University’s Design of Medical Devices Conference. Rebekah is advised by Dr. Teresa Kimberley and is currently enrolled in the University’s joint PhD/DPT program. Kudos to Bekah!

Joyce Trost presented this past June at the 2014 New Directions in Biology and Disease of Skeletal Muscle Conference in Chicago. This was the group’s sixth biennial meeting, highlighting current developments in muscle biology, disease, and therapy with presentations by leading international researchers. Joyce’s research abstract was titled “Evaluating Contraction Induced Impairment in Muscle Fiber Excitability Using Magnetic Stimulation.” Joyce was mentored on the project by Drs. Kimberley and Lowe. Good job, Joyce!

Congratulations to Jeffrey Chih-Huang Yu, recipient of a research grant from the James B. Swanson Memorial Fund. This is a two-year grant administered by Care Providers of Minnesota. The grant is designated to promote and encourage research in the areas of long-term care, the aging process, geriatrics, and the care of the disabled and chronically ill. Jeffrey is an Occupational Therapist, having received his Bachelor's Degree from Chung Shan Medical University in Taiwan and his Master’s from the University of Puget Sound in Tacoma, Washington. Jeffrey is advised by Dr. Virgil Mathiowetz.

Rehab Science Students Have Dinner with Famous Aging Researcher

Written by Tara Mader

This past October, several graduate students from the Rehabilitation Science program attended the Robert and Arlene Kogod Center on Aging Conference at the Mayo Clinic in Rochester, MN. At the conference the students were fortunate to have the opportunity to sit and talk science with well-respected aging researcher Dr. S. Jay Olshansky at the Gala Dinner. Dr. Olshansky is best known for his contributions to understanding the "Longevity Dividend," a pursuit of identifying a means to slow the aging process and determine the upper limit of human longevity. Among his many scientific accomplishments, Dr. Olshansky sits on the board of the American Federation of Aging Research, is an editor for the Journal of Gerontology and is the author of articles and books on biodemography and human mortality limits. He is an avid spokesperson for the importance of studying aging in today’s world and the public health implications of individual and population aging. I think I speak for all the graduate students in attendance when I say that the opportunity to have an informal discussion with Dr. Olshansky and listen to him share his passion and knowledge about aging was enlightening. It was also highly motivating to share our current research work with someone who is so well respected in the field of aging, and get feedback and support of our scientific pursuits.
Donna Volodarsky, DPT (Class of 2010) was selected as the 2014 Clinical Educator of the Year. Donna works as a physical therapist at Minnesota Masonic Home in Bloomington, and has served as a Clinical Instructor for a number of our students. Her nomination letter states “Donna has been more than just a CI to me these last several weeks. While she has not only taken the time to stay late to finish paperwork with me and answer all of my (many) questions, she has also gone above and beyond and mentored me in navigating the job search process...She has shown an interest in my education beyond the clinic...She has been open to my discussions about new evidence and has challenged me to grow as a clinician.” Congratulations to Donna! We truly thank Donna and all of the clinicians who serve as Clinical Instructors for our students.

The University of Minnesota Program in Physical Therapy is now a part of the social media age! A group of students from the Class of 2016 took the initiative to create a Twitter account for our Program with help from various faculty and staff. After researching other top physical therapy programs’ social media presence, this account was created to provide information for prospective students, describe the daily life of a UMN PT student, highlight the work of our amazing researchers, and share general information about the profession of physical therapy. The Class of 2016 founders include (L -> R in above photo): Grant Blasczyk, Angela Pitan, Heather Johnson, and Tim Miller. The Class of 2017 named Kory Lutz and Kyle Thompson to join them on the Social Media Committee. If you have anything that you would like to share with the PT world, you can email ptum14@umn.edu or tweet at us at @UMN_PT. Give us a follow!

Thanks,
Tim and the Twitter Team
Welcome.

The Program in Physical Therapy welcomes two new faculty members, Dr. Wynn Legon and Dr. Ann Van de Winckel.

Wynn Legon, PhD
Assistant Professor
MnDRIVE Brain Conditions Neuromodulation Scholar

Dr. Legon is a MnDRIVE Discoveries and Treatments for Brain Conditions Scholar at the University of Minnesota Twin Cities. Dr. Legon is from Toronto, Ontario, CAN and received his PhD in Kinesiology with a specialty in Cognitive and Behavioural Neuroscience from the University of Waterloo in Ontario CAN. Dr. Legon spent two years as a post-doctoral fellow at the Centre for Stroke Recovery at Sunnybrook Hospital in Toronto researching neuromodulatory strategies for stroke rehabilitation. From there, Dr. Legon spent three years as a post-doctoral fellow at the Virginia Tech Carilion Research Institute in Roanoke VA. There, his research examined non-surgical methods for neuromodulation and in particular the use of focused ultrasound for neuromodulation in humans. This work was published in Nature Neuroscience and showed for the first time that focused ultrasound can be targeted through the skull to modulate specific cortical circuits in humans.

As a MnDRIVE scholar at the U, Dr. Legon’s laboratory researches methods of non-surgical brain neuromodulation in humans including focused ultrasound, transcranial electric current stimulation (tA/DCS) and transcranial magnetic stimulation (TMS). His laboratory uses functional magnetic resonance imaging (fMRI), electroencephalography (EEG) as well as computational models to better understand how these methods of non-surgical neuromodulation affect whole brain networks and specific neuronal circuits during a variety of sensory, motor and cognitive tasks. It is the goal of his research to develop and improve tools for the modulation of human brain circuit activity to support functional brain mapping efforts and to advance diagnostics and therapies in neuroscience.

Ann Van de Winckel, PhD, MSc, PT
Assistant Professor

Dr. Van de Winckel obtained her BSc and MSc degree in Motor Rehabilitation and Physiotherapy at the University of Leuven (KU Leuven) in Belgium. Both BSc and MSc degrees are required to become a licensed Physical Therapist in Belgium. She defended her PhD in Rehabilitation Sciences and Physiotherapy at the same institution. Next, she completed 6 years of post-doctoral training at KU Leuven in Belgium. She also taught at KU Leuven for 14 years, mainly in the second Master year, the second Bachelor year, and in additional post-academic specialization training. Throughout her PhD and post-doctoral training, her research focus was on (1) clinical sensory and motor evaluations of the upper limb in stroke, among which the development of the Motor Evaluation Scale for Upper Extremity in Stroke Patients (MESUPES), based on evaluating 396 patients; and (2) brain imaging, comprising fMRI, TMS, and DTI, in stroke patients, in children with cerebral palsy, in healthy adults and typically developing children.

The strong, similar streamline of brain research from the Brain Plasticity Lab directors and the opportunity to access the internationally acclaimed Center for Magnetic Resonance Research (CMRR) are what brought her to the University of Minnesota. In 2014, she got licensed as a Physical Therapist in Minnesota, and started June 30, 2014, as Assistant Professor at the University of Minnesota, in the Programs of Physical Therapy and Rehabilitation Science.
Dr. Van de Winckel is passionate about discovering the intricacies of the brain, especially related to body awareness and sensorimotor recovery. Therefore, the primary goal of her research agenda is to understand the neural mechanisms of neuroplasticity and recovery after stroke through the use of fMRI, structural and functional connectivity, to determine its impact on clinical sensorimotor outcomes. Further, to translate these findings to therapeutic interventions aimed at sensorimotor recovery.

Based on a clinical neuro-rehabilitation treatment for stroke patients, developed by a neuropsychiatrist, Professor Perfetti in Italy, she developed a research line to find the specific brain areas related to body awareness, and will further investigate how rehabilitation treatments can trigger neuroplasticity in these brain areas and associated brain connections, and ultimately produce higher movement function and quality of life.

---

**Continuing Education 2015**

**$10 Tuesdays**

Includes 2 contact hours of Category 1 continuing education + light food and beverage for $10!

**Tuesday, February 24, 2015, 6:30 - 8:30 PM**
Patricia Schaber, PhD, OTR/L
“Cognitive Testing in OT Evaluation with Adults with Memory Loss”

**Tuesday, March 24, 2015, 6:30 - 8:30 PM**
Henry Lozano, PT, DPT
“Better Breathing for Better Results: Breathing Exercises and Pulmonary Drainage Techniques -- A Hands on Approach”

**Tuesday, April 7, 2015, 6:30 - 8:30 PM**
Elizabeth Sander, PT, DPT, and Samuel Vukov, PT, DPT, Geriatric Clinical Residents
Geriatric Topic TBD

**16th Annual Jack Allison Lecture**

Dale Avers, PT, DPT, PhD, FAPTA
“Mobility in the Frail Elderly Adult”
Saturday, November 7, 2015, 8:00 AM - 4:30 PM

Registration material will be made available closer to program dates. For more information, contact Rich Adamczak via email at adamc002@umn.edu or by phone at 612-625-3966.
Minnesota Senior Games.

Senior Athletes made their way to the metro area this summer for the Minnesota Senior Games, an annual multisport event for adults over the age of 50. This year MN held competition in 21 different sports including events like a triathlon, 5K and 10K road races, archery and basketball. Some athletes had an extra event this year thanks to physical therapy students from The University of Minnesota and The University of South Dakota. Together, they provided the Senior Athlete Fitness Exam (SAFE). The SAFE specifically aims to test high functioning seniors involved in sports and give them feedback to help them stay active and healthy. It tests the athlete’s strength, flexibility, balance, mobility, posture and cardiovascular risk factors. SAFE was created by Becca Jordre, a physical therapist and geriatric clinical specialist from the University of South Dakota, who was present for the day as well. She has been testing senior athletes at state and national Senior Games events for the past 5 years. “We’re finding that this population of athletes scores much higher than typical older adults on almost every measure. It is so fun to see the physical ability that can be maintained with aging when individuals stay active,” says Jordre. A unique aspect of SAFE is the regular involvement of student physical therapists. This event successfully integrated students in their first semester of study to students in their third year of PT school. Dr. Jordre promotes the SAFE as a great service-learning activity, “Physical therapy students often have this idea that seeing older adults might be dull or less challenging. But after meeting just a few athletes you really see their perspective change.”

University of Minnesota Doctor of Physical Therapy student volunteers who participated in the SAFE included Stephanie Mathiowetz (year 3), Rebecca Gusmer (year 2), Josh Greensweig, Kyle Ballard, Brad Keller (year 1), and former geriatric resident David Gillette. They were joined by local PT Eva Norman, and St. Scholastic faculty member and geriatric specialist Jane Killough.

Next summer Minnesota will host the National Senior Games competition across the metro area with more than 10,000 athletes participating. If you are interested in helping with the SAFE next year or if you have questions e-mail Becky Olson-Kellogg (olso0184@umn.edu) or Becca Jordre (becca.jordre@usd.edu).
It's a party... and you're invited!

Plans are underway for the U of M PT Program's 75th Anniversary!

This will occur sometime in the summer or early fall of 2016. A steering committee is being formed and should be operational by early 2015.

Caryn Korman, our new Alumni Coordinator, will, amongst other responsibilities, assist with the anniversary. Multiple work groups will be needed to make this special event inviting, celebratory, memorable and fun. Such work groups will include activities, entertainment, speakers, dinner, fundraising, communications, etc.

We urge anyone interested to please volunteer to help by emailing Caryn Korman (cakorman@umn.edu).

Stay tuned for more announcements.

Go Gophers!!!

Jim Carey, Faculty and Class of ’72
Lang Ho Elected to Student Assembly Board of Directors.

Congratulations to Lang Ho (Class of 2015) who was recently elected to the Student Assembly Board of Directors! Lang (back right in photo below) was elected at National Student Conclave to serve as the Director of Membership. The Student Assembly is a component of the APTA dedicated to students and student interests. The Board of Directors is a group of 10 students dedicated to bringing their vision for the Student Assembly to life while serving as representatives for all PT and PTA students. The Director of Membership is a new position this year. The intent in creating the position was to allow one person to focus on tasks related to generating and retaining membership—specifically amongst students as they transition into new professionals. A large piece of that is generating awareness of everything that the APTA does to protect and serve the physical therapy profession. The Director of Membership, with help from the APTA Board of Directors, is responsible for creating mass media publications to increase membership, develop creative ways to engage students in their membership/increase retention, and to communicate the student membership benefits.

Lang Ho Elected to Student Assembly Board of Directors.

The 2014 National Student Conclave was held in Milwaukee, Wisconsin, October 30 - November 1. Due to the high yield of students from the University of Minnesota (56 students) who attended NSC, the Program won the Student Assembly Challenge for zone two by having the greatest number of students attending from that zone. The zones are determined by the distance from the conference, with four zones total.

Class of 2015: Rachel Clark, Lang Ho, Rebekah Foelker, Briana Jones, Jessica Mohrbacher, Chelsea Schmidt, Caitlin Wooldridge

Class of 2016: Erin Babineau, Grant Blasczyk, Kaitlin Brendel, Brittany Burton, Danielle Busch, Kayla Conway, Eli Fark, Meagan Fishbeck, Steph Greer, Shannon Groth, Tom Groth, Becca Gusmer, Erica Hett, Heather Johnson, Kate Kubat, Courtney Marek, Tim Miller, Steph Morse, Karen Myhrman, Josie Oakland, Angela Pitan, Meagan Reed, Jill Richards, Sam Roedel, Dustin Schlangen, Katie Schneider, Jon Shoenecker, Andrea Senger, Matt Stoltman, Jess Swanson, Taylor Thompson, Andrea Tobias, Lydia Vedeer, and Luke Wernberg


Congratulations to Lang Ho (Class of 2015) who was recently elected to the Student Assembly Board of Directors!
Clinical Essays.

Katie Schwarz, PT, DPT
University of Minnesota Doctor of Physical Therapy Program, Class of 2014
International internship in Tanzania, Africa
For my 3rd internship, I had the opportunity to travel to Tanzania, Africa with one of my classmates. On January 1st 2014, I boarded a plan to Kilimanjaro, Tanzania to start an 11-week internship at Comprehensive Community Based Rehabilitation Tanzania (CCBRT). While in Tanzania, I spent approximately 5 weeks at CCBRT in Moshi, and 6 weeks at CCBRT headquarters in Dar es Salaam, Tanzania. CCBRT is a locally registered, non-governmental organization that provides health care and rehabilitation services to both adults and children with disabilities. CCBRT’s main focus is rehabilitation for children. Participating in an internship abroad gave me the unique experience in treating diagnoses that are not commonly seen in the United States. Typical diagnoses I treated during my time at CCBRT included clubfoot, Erb’s palsy, post-injection paralysis, fractures, burns, cerebral palsy, spina bifida, hydrocephalus, and more. At both CCBRT clinics, I had the opportunity to work side-by-side with physical therapists and physicians from all over the world. I also had the opportunity to travel, including a climb to the top of Mt. Kilimanjaro, a visit to Zanzibar, and a 4-day safari. Living and working in Africa gave me a completely new perspective on my life and the world as a whole. I often find myself reflecting back on this as I continue practicing physical therapy in the United States. During my time abroad, I learned how to overcome challenges I would not have faced in the United States such as a lack of resources and language barriers. I also learned a great deal about culture and myself.

Leigh Schreiner, PT, DPT
University of Minnesota Doctor of Physical Therapy Program, Class of 2014
Internship in Palo Alto, California
For the 2nd of my clinical rotations, I had the opportunity to escape the start of winter in Minnesota and spend time working in the Polytrauma Unit of the VA Hospital in Palo Alto, CA. This unit was made up of a variety of patients, primarily those who had suffered TBI or blast injuries, but also some post-CVA and amputee cases. As one of five units of this type throughout the country, veterans from around the entire west coast region were transferred to Palo Alto for the specialized care given in this particular unit. As a result, I had the chance to treat some very complex and unique cases. Over the nine weeks of my internship, I was able to work with patients in the acute phase immediately following injury and progress with them throughout their stay on the unit. I was able to apply concepts learned in class to impact real patients’ recovery, but also learned that sometimes the skills learned from a textbook or in practical exams can’t account for the complexity seen in actual people. I was able to learn from a team of incredibly skilled physical therapists, but also work alongside and collaborate with other disciplines such as OT, speech, psychology, and social work to coordinate care. Outside of the hospital, there was so much to see and do around the Bay Area including a visit to Alcatraz, exploring San Francisco, biking the 17-mile Drive in Monterey and hiking Yosemite National Park. Working with the complicated patients I saw at the Palo Alto VA taught me to focus in on small aspects of a patient’s movement, to break down a complicated whole into manageable pieces that I can impact in a single session. In addition, I learned to get creative and be flexible enough to have a variety of backup plans when my first, second and fifth ideas aren’t working out. These are skills I continue to lean on heavily as I start my clinical practice.

FROM THE EDITOR

Upcoming Important Newsletter Changes

In an effort to be more "green" and to join the digital age, we will be transitioning this newsletter to an electronic format. However, we realize that some readers may prefer a print edition, so we will have a transitional period in which we will produce both. By the time you receive this print edition, we will have already emailed out an electronic version of the newsletter. If you did not receive it, then that means that we do not have a current email address for you. We invite all of our readers to complete the response card in the middle of this issue to provide your current email address, any updates in your name or mailing address (as we are trying to update our database) and also to indicate whether your preference is to receive a digital or print version of the newsletter. (If for some reason there is not a response card in your issue, please email that information to cakorman@umn.edu).

IMPORTANT CHANGE! PLEASE READ!
An Extra-Special Connection.

Written by Sara Gleason, Class of 2017

My twin sister Page and I have an extra special connection; we were conjoined at birth. We were conjoined superficially from sternum to navel, and the only major organ connected was our liver. We were the first twins to be separated at the Mayo Clinic in Rochester, MN. My mother found out that we were conjoined early on in her pregnancy, and the doctors told her she should abort us. They said that we would not be able to live normal lives, and that the risk of separation surgery was too great. However, my mom did not agree with them and decided to go to Mayo.

The teams of doctors at Mayo were great. They told my parents that the surgery was risky, but they could do it. They came through on their word when my sister and I were successfully separated at three months old. My sister and I grew up completely healthy. We went back to Mayo for some plastic reconstruction surgery in our teens due to scarring from the conjoinment, but other than that we have had no adverse affects.

Our miraculous story influenced my decision to become a physical therapist. Because of our story, I have always wanted a career in the medical field. When I was looking through medical careers, I realized that I wanted to help people heal not just diagnose their illnesses. Right now I am leaning towards practicing in pediatric physical therapy in order to help children less fortunate than I was to heal from their congenital abnormalities.

Currently, my sister Page is completing her final internships to become a speech language pathologist at University of Wisconsin River Falls. She is engaged to be married next July. I have been married to my husband Bo for over a year now, and we live in Saint Paul as I go to school. My sister and I are still extremely close. We often reflect on our story and how blessed we are to be alive and healthy today.
This past April I had the honor of attending the APTA’s Federal Advocacy Forum in Washington, DC. Washington, DC is a city that will make you believe in the impact one person can have. At virtually every turn, there is a monument or memorial dedicated to individuals who dared to make a difference in their times. Combine that with a collection of some of the biggest hearts and brightest minds that the profession has to offer and the experience becomes the epitome of inspiration.

The event was spread over three days. Day one was the reception where the Thornton Room atop the Hyatt Regency buzzed with laughter and cheers. Everywhere you looked there was an exchange of hugs between old friends and handshakes between new ones. Day two was programming. The entire day was spent getting all of us ready for day three. It covered everything from how to talk to our representatives to the specifics of each bill we would be lobbying. For students, there was also a seminar on student advocacy and what can be done back in our home districts. Day three was meeting with our legislators and lobbying the issues. This was the most important day of all. My particular experience with Keith Ellison’s office was unforgettable. In addition to actually getting to meet with Congressman Ellison—which was a last minute change—he agreed to support us on all of the issues that we discussed including full repeal of the therapy cap, closing the physician self-referral loop hole, and adding physical therapists to the NHSC list of professionals eligible for loan forgiveness. We discussed other issues as well and ended up getting a full thirty minutes of his time. We walked out of the office on cloud nine, feeling a sense that we had accomplished the good we had set out to do.

The significance of this event was not limited to interactions with legislators. The networking and the strengthening of the PT community was a large component as well. At the Federal Advocacy Forum, there is the opportunity to meet many influential people who were all very happy to meet others and to share a passion for PT and for advocacy. For me, the Federal Advocacy Forum was the start of many new friendships and relationships that I will maintain for years to come. Had this been the only thing that I had gotten out of the event, I still would have considered myself extremely lucky and been very grateful to have attended.

The Federal Advocacy Forum is an event that I would recommend for anyone in the physical therapy profession — student or professional — to attend at some point in his/her career. The impact of the event will extend far beyond those three days. It will help shape you as a professional as well as a person. I want to give specific thanks to Kathleen Picard and Erin Simunds for their support and encouragement throughout the event and beyond. And a special thank you to my mentor, Eva Norman, for not only providing the opportunity for me to attend as a student, but also for all she did to help prepare and guide me through this life-changing event.

This past April I had the honor of attending the APTA’s Federal Advocacy Forum in Washington, DC. Washington, DC is a city that will make you believe in the impact one person can have. At virtually every turn, there is a monument or memorial dedicated to individuals who dared to make a difference in their times. Combine that with a collection of some of the biggest hearts and brightest minds that the profession has to offer and the experience becomes the epitome of inspiration.

The event was spread over three days. Day one was the reception where the Thornton Room atop the Hyatt Regency buzzed with laughter and cheers. Everywhere you looked there was an exchange of hugs between old friends and handshakes between new ones. Day two was programming. The entire day was spent getting all of us ready for day three. It covered everything from how to talk to our representatives to the specifics of each bill we would be lobbying. For students, there was also a seminar on student advocacy and what can be done back in our home districts. Day three was meeting with our legislators and lobbying the issues. This was the most important day of all. My particular experience with Keith Ellison’s office was unforgettable. In addition to actually getting to meet with Congressman Ellison—which was a last minute change—he agreed to support us on all of the issues that we discussed including full repeal of the therapy cap, closing the physician self-referral loop hole, and adding physical therapists to the NHSC list of professionals eligible for loan forgiveness. We discussed other issues as well and ended up getting a full thirty minutes of his time. We walked out of the office on cloud nine, feeling a sense that we had accomplished the good we had set out to do.

The significance of this event was not limited to interactions with legislators. The networking and the strengthening of the PT community was a large component as well. At the Federal Advocacy Forum, there is the opportunity to meet many influential people who were all very happy to meet others and to share a passion for PT and for advocacy. For me, the Federal Advocacy Forum was the start of many new friendships and relationships that I will maintain for years to come. Had this been the only thing that I had gotten out of the event, I still would have considered myself extremely lucky and been very grateful to have attended.

The Federal Advocacy Forum is an event that I would recommend for anyone in the physical therapy profession — student or professional — to attend at some point in his/her career. The impact of the event will extend far beyond those three days. It will help shape you as a professional as well as a person. I want to give specific thanks to Kathleen Picard and Erin Simunds for their support and encouragement throughout the event and beyond. And a special thank you to my mentor, Eva Norman, for not only providing the opportunity for me to attend as a student, but also for all she did to help prepare and guide me through this life-changing event.
Awards & Recognitions.

The Marilyn Woods Long Term Service Award honors a MNPTA member who has demonstrated consistent service, dedication, and achievement over an extraordinary number of years to physical therapy and the professional association. The nominee will have typically been a longstanding member of the APTA and have been active in education, research, and publications, have served in the professional organization at various levels, and will have displayed special expertise in the profession. We are pleased to announce that the 2014 recipient of this award is Dr. Jim Carey.

The purpose of the Emerging Leader Award is to identify and honor one physical therapist or physical therapist assistant "emerging leader" from each APTA Chapter or Section who has demonstrated extraordinary service early in his or her physical therapy career. The individual should have made exceptional overall accomplishments and contributions to the American Physical Therapy Association, the component, and the physical therapy profession to advance APTA's vision. The nominee must be a current member of APTA for at least 5 years and no more than 10 years from formal graduation. The nominee must have current or prior service on 1 or more appointed or elected groups at the component or national level. We are pleased to announce that the 2014 recipient of this award is Program Alum Rebecca Vogsland, Class of 2007.

The Program in Physical Therapy is pleased to announce Greg Santema and Susan Braun-Johnson as the 2014 recipients of the University of Minnesota Program in Physical Therapy Faculty Service Award. This award is presented every year to individuals recognized for their outstanding contributions to the Program in Physical Therapy. Greg is a graduate of our Program and is the epitome of service to the profession. As a private practice owner he has supported our Program by taking internship students, has served on our Program's Scholarship Committee, International Internship Review Committee, and as a Community Liaison for 2nd year community service projects for many years. But most importantly, he was instrumental in initiating the Niger international internship experience where he has assisted in developing relationships as well as acting as a mentor and Clinical Instructor for students on those trips. Susan is also a graduate our Program and recently stepped down as the Center Coordinator of Clinical Education (CCCE) for Hennepin County Medical Center (HCMC) where she served in this role for many years. She has been extremely generous, flexible, and an excellent role mode of what a CCCE should be. She has often taken students at the last minute when there were cancellations and has assisted with APTA Clinical Credentialing of PT’s. She has been instrumental in creating an atmosphere of an excellence in clinical instruction at HCMC consistently making it one of our top internship choices.

Dave Erlandson (Class of 2014) is the 2014 recipient of the MN Outstanding Student Award from the MNPTA! Dave received this recognition from the MNPTA because he served as the Student Special Interest Group (SSIG) Co-Chair for the MNPTA since 2013. During that time, he promoted membership & participation in the APTA and the importance of serving in his chosen profession among PT/PTA students. His maturity & professionalism is what also lead to him being selected to serve as the Core Ambassador from Minnesota to the National APTA (a leadership/liaison role between all PT & PTA school programs & the national APTA). Congratulations, Dave!

Congratulations to Brianna Radtke (Class of 2014) for being selected for the Fairview Sports Physical Therapy Residency program. Residents work side-by-side with sports medicine and orthopedic physicians, sports physical therapists and athletic trainers who bring advanced training in sports medicine. Coursework includes a mix of direct clinical care, physician and surgery observation, research, athletic training observation, and a variety of educational activities that include one-to-one mentoring sessions and weekly sports medicine grand rounds.

DPT Student Awards for 2014

The Program in Physical Therapy is pleased to be able to offer the following scholarships and fellowships through the generous donations of many outstanding Physical Therapists. The following outstanding students were honored at a banquet with donors on June 17, 2014:

The Janice Steadland Fellowship Fund: This award is given to a 3rd year, graduating student for their exceptional work during their full-time Clinical Internships.

   Annie Holleran (Class of 2014)
   Rachel Ringeisen (Class of 2014)
Beatrice E and Hurd Boody Scholarship: This award is given to a 3rd year, graduating student who exhibits leadership and communication skills and intends to pursue a career in hospital based Physical Therapy.
   Jennifer Smith (Class of 2014)

Donna Pauley Fellowship: This award is given to a 3rd year, graduating student who demonstrates strong leadership skills as well as being a team player, and intends to pursue a career in the area of Geriatric PT Practice.
   Melissa Ludescher (Class of 2014)

Rudolf Ptak Endowed Fellowship in Physical Therapy (Class of 1953): These scholarships are awarded to 1st and 2nd year students based on a high degree of merit and potential for their professional contributions.
   Rachel Ahn (Class of 2015)
   Robin Viele (Class of 2015)
   Cheyenne Oyen (Class of 2015)
   Katie Fandrey (Class of 2015)
   Rebecca Gusmer (Class of 2016)

21st Century Scholarship: This award is given to a 2nd year student who demonstrates outstanding merit and future potential in the field of Physical Therapy.
   JonPaul Dragseth (Class of 2015)
   Lang Ho (Class of 2015)

The Sharp Family Fellowship (Class of 1956): This award is given to a 2nd year student who demonstrates the potential for high professional contributions.
   Karla Wallner (Class of 2015)
   Joshua Meuwissen (Class of 2015)

Barbara Lee Graham Scholarship (Class of 1956): This award is given to a 2nd year student who demonstrates outstanding merit and future potential in the field of physical therapy.
   Rachel Clark (Class of 2015)

Eleanor McManmon Daly Scholarship (Class of 1948): This scholarship is awarded to a 2nd year student who plans to participate in an international Clinical Internship in the upcoming year.
   Kaitlyn Lorsbach (Class of 2015, plans to go to Ecuador)

Walter H. Judd International Graduate and Professional Fellowship: This prestigious award is from the Global Programs and Strategy Alliance here at the University of Minnesota for worthy graduate and professional students to participate in international internships.
   Tyler Bradley (Class of 2015, plans to go to Tanzania, Africa)
   Atefeh Orandi (Class of 2015, also plans to go to Tanzania, Africa)

Marguerite P. Gardner Fellowship (Class of 1969): This award is in memory of former faculty member “Margie” Gardner. The 1st and 2nd year recipients of this scholarship are nominated by their class members in recognition of service to their class, department, profession and community.
   Kjersten Grinde (Class of 2015)
   Kaitlin Brendel (Class of 2016)

2014 MNPTA Outstanding Student Award: This honor is awarded to a 3rd year student APTA member who is nominated by the faculty based on academic merit and MNPTA Chapter participation.
   Dave Erlandson (Class of 2014)

MN Physical Therapy Association Federal Advocacy Student Scholarship: This award is offered to inspire PT students to get involved in federal advocacy and allow them to participate in the Federal Advocacy Forum or Capitol Hill Day in Washington D.C.
   Lang Ho (Class of 2014)

Congratulations on your great accomplishments, everyone!
The following is a listing of posters and presentations that will be presented at the 2015 installment of the Combined Sections Meeting (CSM) of the American Physical Therapy Association, which will be held in Indianapolis, Indiana, from February 4 - 7, 2015.

Dr. Paula Ludewig
"Movement System Diagnosis and Management of Shoulder Conditions"
*Panel presentation with Barb Norton (Washington University), Phil McClure (Arcadia University), Joe Godges (USC), Shirley Sahrmann (Washington University).* Saturday, February 7, 2015, from 3 - 5 pm.

Dr. Bernadette Gillick
"Comparing EEG and TMS-Derived Motor Cortex Locations in a Typically Developing Child and a Child with Hemiparesis"
AUTHORS: Gillick BT, Lorsbach K, Mathiowetz S, McQuillian C, Meuwissen J, Menk J, Meekins G, Feyma T
Department of Physical Medicine and Rehabilitation - Program in Physical Therapy, Veteran’s Administration Hospital, Gillette Children’s Specialty Healthcare, U of MN Clinical and Translational Science Institute - Biostatistical Design and Analysis Center

Christine Cabelka, Rehabilitation Science Student
"SOWH Complex Cases in Men's and Women's Health"
A 10-minute case study presentation during the education session.

Rebekah Schmidt, Rehabilitation Science and DPT Student
"Effect of rTMS and Sensorimotor Retraining in Focal Dystonia"
AUTHORS: Rebekah Schmidt; Mo Chen; Teresa Kimberley; Catherin Buetefisch
PRESENTER: Ms. Rebekah Schmidt

Three poster presentations from the Minnesota Rehabilitation Biomechanics Lab will be presented. The first is from Dr. Ludewig's Third Year (Class of 2015) PT student research group.

"Effects of Feedback Types on Clavicle Elevation And Upper Trapezius Activation in Persons with Shoulder Pain"
AUTHORS: Dragesth JR, Budlong MR, Butala BE, Clark RM, Ebert TR, Foelker RJ, Lawrence RL, Staker JL, Ludewig PM

The second poster involves work from PhD students Justin Staker and Becky Lawrence, presented by Justin Staker.

"Movement-Based Biomechanical Examination Following a Three Year Case of Scapular Dyskinesia"
AUTHORS: Staker JL, Lawrence RL, Ludewig PM.

The third is from Ward Glasoe's Third Year Student Group (Class of 2015).

"Image Measurement of First Metatarsal Sagittal Plane Motion: Implications for Bunion"
AUTHORS: Atefeh Orandi; Cheyenne Oyen; Jessica Mohrbacher; Jeff Olson; Ward Glasoe
Poster Day 2014.

The physical therapy profession has recognized the need for scientific research to refine and develop the most effective diagnosis and treatment practices in rehabilitation and health promotion and wellness. Students work directly with faculty performing state of the art research that is routinely published in national and international scientific journals. The Research Poster Presentation is a result of that work. Poster Day 2014 was held this past June at the McNamara Alumni Center on the Twin Cities campus. The following is a list of those posters presented.

Skeletal Muscle Plasticity at 8 and 12 Weeks After Hemorrhagic Stroke in a Rat Model
Haumersen, E., Grinde, K., Frigge, R., Frederick, B., Goldsten, P., Ho, L.
Research Advisor: LeAnn Snow, MD, PhD

Validation of Fine-wire EMG for TMS and rTMS Cortical Modulation
Hayes, S., Schmidt, C., Stephens, N., Tonsager, K., Viele, R., Schmidt, R., Chen, M.
Research Advisor: Teresa Kimberley, PhD, PT

Effect of Aerobic Exercise on Brain Activity Following TBI
Bradley, T., Bryant, M., Jude, C., Kline, D.
Research Advisors: James R. Carey, PhD, PT, and Jeanne Lojovich, PhD, PT
University of Minnesota, Program in Physical Therapy
Minneapolis Veteran’s Administration Medical Center, Minneapolis, MN HealthEast Bethesda Hospital, St. Paul, MN

Measurement of First Metatarsal Sagittal Plane Motion: Implications for Bunion
Orandi, A., Oyen, C., Mohrbacher, J., Olson, J.
Research Advisor: Ward Glasoe, PhD, PT

6-Hz Primed vs. Unprimed Low-frequency Repetitive Transcranial Magnetic Stimulation in Stroke
Cassidy, J., Ahn, R., Alberts, K., Bauer, K., Berchem, J., Bieniek, J., Brinkmann, E.
Research Advisor: James Carey, PhD, PT

Effects of Feedback Types on Clavicle Elevation and Upper Trapezius Activation in Persons with Shoulder Pain
Budlong, M., Butala, B., Clark, R., Dragseth, J., Ebert, T., Foelker, R., Lawrence, R., Staker, J.
Research Advisor: Paula Ludewig, PhD, PT

Low Frequency rTMS Applied To PMC Followed By M1 Revealed Greater Cortical Inhibition Compared To PMC or M1 Areas Alone
Sokolowski, S., Wallner, K., Weyer, L., Williams, T., Wooldridge, C. Schmidt, R., Chen, M.
ResearchAdvisor: Teresa Kimberley, PhD, PT

Effects of a Resistance Training Protocol for Mice
Graber, T., Behr, A., Fandrey, K., Proft, N., Quiring, S., Rickabaugh, A.
Research Advisor: LaDora Thompson, PhD, PT

Inter-Rater Reliability and Gender Differences In Local Tissue Water
Hoffman, J., Jones, B., Konold, M., L’Abbe, L.
Research Advisor: Linda Koehler, PhD, PT, CLT-LANA
Kendall Doctoral Scholarship.

The Foundation for Physical Therapy Board of Trustees recently awarded one of two Florence P. Kendall Doctoral Scholarships to Allison Kosir, PT, DPT, of the University of Colorado, Denver. Allison graduated from our Program in 2012. The Florence P. Kendall Doctoral Scholarships are awarded annually to outstanding physical therapists as they begin their first year of graduate studies toward a post-professional doctoral degree.

Program Happenings.

The Program in Physical Therapy is both honored and privileged to share news of new beginnings within the Program, as well as honoring those kindhearted souls who are no longer with us.

New Beginnings

Kellie Alberts '15
Norah LeAnn Alberts
Born: 9:09pm, September 17, 2014
8 pounds, 1 ounce; 20.5 inches long

Adam ‘09 and Mary (Furlong) ’10 Meierbachtol
Miles Patrick Meierbachtol
Born: January 29, 2014
9 pounds, 5 ounces, 22 inches long

“All is going just great with us. Our grandson, Victor Emmitt Blake, arrived today around 3:00 AM. What a hulk. Weighed in at 9 lbs 3 oz and 21 inches long. Baby and Mama are doing great, father and grandparents are on cloud nine. I’m getting the rocking chair warmed up. Wishing all of you a very Merry Christmas and all the best for a great new year.”

Best always,
Dr. Carl Kukulka (Professor, Retired 2013)
Frederic “Fritz” J. Kottke, MD, PhD, passed away on May 23, 2014 at age 96. Dr. Kottke was internationally recognized for his contributions to the field of Physical Medicine & Rehabilitation, and was on the University of Minnesota Medical School faculty for over 40 years. He served as the first chair of the school’s Department of Physical Medicine and Rehabilitation. He also taught students in the University’s Program in Physical Therapy.

“I learned much from Dr. Kottke as a PT student, and further benefited from his supportive mentorship when I was getting my own research started as a new faculty member,” recalls Dr. Jim Carey, PT Program Professor. Dr. Carey adds “The building that houses the PT Program (Children's Rehabilitation Center) was built as a result of Dr. Kottke's strong advocacy at the highest levels of our federal government.”

Another PT Program faculty member, Dr. LeAnn Snow, was a Physical Medicine & Rehabilitation resident physician under Dr. Kottke’s tutelage. She recalls Dr. Kottke as “a mentor who was committed to excellence in both education and patient care.”

Dr. Kottke was preceded in death by his wife, Astrid, and 1 child. He is survived by 3 children, 6 grandchildren, and 5 great-grandchildren. Services were held in July.
PT Holiday Photo Album.

There is always something interesting and exciting going on within the Program in Physical Therapy. With all of the hustle and bustle of academics, our faculty, staff, and students manage to take a well-earned break from time to time, especially when the festive season at the end of the year rolls around! Please enjoy some snapshots from this year’s Halloween Party and Holiday Party!

Halloween Party 2014
October 31, 2014
Get Ready!

The Newsletter is Going Digital

Please turn to page 20 in this edition of PTNews for more information!