

Department Awarded \$1.5 Million for PTClinResNet, a Multisite Clinical Research Network



Dr. Carolee Winstein, Principal Investigator of PTClinResNet

The Foundation for Physical Therapy has awarded a \$1.5 million 3-year clinical research network grant to Principal Investigator Carolee J. Winstein, PhD, PT, to establish PTClinResNet, a multisite clinical research network that links together five premier centers of physical therapy research and practice. Joining USC in this clinical research endeavor are Northwestern University, Rancho Los Amigos National Rehabilitation Center, Southwest Missouri State University, and the University of California at Los Angeles. These centers will come together through the network to carry out four clinical research projects. The projects share a

common theme: to assess the effects of strength-training exercises that are designed to improve muscle performance and movement skill in patients with physical disabilities.

PTClinResNet has three primary goals. The first is to evaluate the effects of strength training for the physically disabled. Second, the network will create the infrastructure necessary to sustain clinical research in physical therapy. Finally, the network will provide education and training opportunities for present and future clinical scientists in physical therapy, and for the PT practice community beyond the five immediate

(Continued on page 2)

U.S. Treasurer Inspires 2002 Graduates

The Biokinesiology and Physical Therapy Department was privileged to have the Honorable Rosario Marin, Treasurer of the United States, deliver the commencement address at the Annual Convocation to the 2002 graduating class on May 10.

Treasurer Marin was also an honored guest of the University President, Steven Sample, on the platform at the University Commencement.

It was the Department's 58th commencement ceremony. There were 92 graduates from five different programs. Graduates received one of four degrees: Doctor of Physical Therapy (either entry-level or post-professional), Master of Science in Biokinesiology, Doctor of Philosophy in Biokinesiology, and a certificate in Orthopedic Physical Therapy.

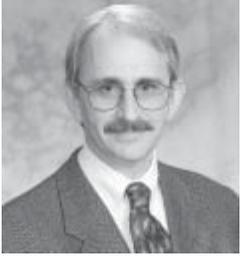
Treasurer Marin gave an inspiring address to the graduates, in which she described how she became an advocate for disabled individuals as a result of her having a son with Down syndrome. To read Treasurer Marin's speech go to www.usc.edu/pt. ■



Treasurer Marin and Dr. Jack Turman (center) pose with a group of 2002 graduates.

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Dr. James Gordon

PTClinResNet — An Idea Whose Time Has Come

Although PTClinResNet is not a word that rolls off your tongue, we will be using it (and you will be hearing it) quite a bit in the next few years. It stands for

Physical Therapy Clinical Research Network – a multi-site organizational structure designed to carry out large-scale clinical trials of physical therapy interventions. As noted in the lead article of this newsletter, the Foundation for Physical Therapy has announced that it has chosen USC's proposal to establish such a network, an accomplishment that we are of course very proud of.

The very idea of a clinical research network for physical therapy is itself remarkable. This will be the first such network in the United States, and perhaps in the world. It clearly marks the maturation of the physical therapy profession that we are ready to establish our own multi-site networks to determine the effectiveness of physical therapy interventions. The original vision for starting this project came from the Foundation of Physical Therapy. The leaders of the Foundation have worked very hard over the past few years to raise the money to fund PTClinResNet. This will be the largest single project ever funded by the Foundation.

Although \$1.5 million sounds like a lot of money, it still falls far short of what we will need to accomplish the objectives of PTClinResNet. In putting together this network, the Department of Biokinesiology and Physical Therapy at USC as well as the other institutions involved (including USC, UCLA, Rancho, Northwestern University, and Southwest Missouri University) have committed to supporting the project with additional funds and other forms of support.

Why have we at USC taken on this project, and why have we committed considerable resources to ensuring its success? First, we see the Department increasingly moving toward clinical research as a primary component of our mission. We expect that the funding from the Foundation will not be the only external support for this research, but the first of many grants that we will seek for this type of research. Second, as we develop more and more expertise in this type of research, we believe that USC will become a center for the education and professional development of clinical investigators, whose research will have an impact on the physical therapy profession for years to come. Finally, and most important, in deciding to put together the proposal for this project, we were answering our profession's call. A clinical research network for physical therapy is an idea whose time has come. It's the right thing to do.

\$1.5M Award *(continued from page 1)*

research locations. PTClinResNet will build support for evidence-based practice, in the area of strength training first, then in other types of PT interventions. Adopting the disablement model as a framework for analysis, PTClinResNet will evaluate outcomes from studies based on changes in individual's impairments, functional limitations and disabilities. There is also a coordinated effort between research centers to compare the treatments across types of disabilities, including adults following stroke, children with cerebral palsy, individuals with spinal cord injury and persons with orthopaedic/low back pain and dysfunction. This has been achieved by using a common set of valid outcome measures across all categories of the research.

PTClinResNet will be conducting four projects. STEPS, strength-training effectiveness post stroke, is a Phase III type study that is designed to demonstrate efficacy of intervention in a large scale, well controlled randomized and multi-center clinical trial. The remaining three projects are Phase I clinical trials which are smaller in scale and are used to establish the feasibility and safety of interventions with a limited number of patients. These projects are named: PEDALS, Pediatric Endurance Development And Limb Strengthening; MUSSEL, Muscle-Specific Strengthening Effectiveness Post Lumbar Microdiscectomy; and STOMPS, Strengthening And Optimal Movements For Painful Shoulders in chronic spinal cord injury.

STEPS focuses on the locomotor disability that frequently remains a major obstacle to community function in persons with chronic post-stroke hemiplegia. Reduced gait speed, which is caused by a combination of decreased muscle strength and poor muscle coordination, is present in the majority of persons post-stroke. The STEPS project will determine if functional outcomes, primarily gait speed, are improved with: strength training as an adjunct to body weight supported treadmill training; locomotor-based strength training compared with muscle specific strength training; and locomotor-based strength training compared with body weight supported treadmill training. David Brown, PhD, PT, will serve as the Lead Investigator of the STEPS project. Dr. Brown is an Assistant Professor at Northwestern University. His previous research dealing with the effect of increased workloads to enhance force output in persons with post-stroke hemiplegia provides an excellent foundation for this project.

PEDALS lead Investigator Eileen Fowler, PhD, PT, Associate Professor at UCLA, will conduct research to determine if a 12-week program of stationary cycling can enhance function in children with cerebral palsy (CP). Cycling is a rehabilitation tool that is often used by physical therapists to improve strength and fitness. Children with CP can use cycling as an activity that not only allows them to participate in family and social activities, it is a means of providing

mobility and independence. Dr. Fowler and her team of investigators will be analyzing the outcomes of the cycling intervention on strength, cardiorespiratory endurance during walking, gross motor functional performance, perception of change in activities of daily living, sport, and play activities, health related quality of life and measures of gait performance.

MUSSEL will be lead by USC Associate Professor Kornelia Kulig, PhD, PT. Dr. Kulig will be addressing muscle-specific strength training effectiveness post lumbar microdiscectomy. Up to 33% of the adult work force is affected by low back pain each year. It is the number one

reason for missed work days and restricted-activity days. Unlike other orthopaedic disorders, the expenses associated with management of back pain have increased over the last 20 to 30 years. Because of the frequency of this injury, surgeons have sought ways to minimize the operative trauma. Microdiscectomy is often the procedure of choice for single level injuries in younger adults as it has been shown to have a high level of success. Dr Kulig's team will evaluate the ability of muscle specific strengthening to result in: immediate improvement in function, quality of life, pain and disability

reduction; long-term effects on these same outcomes; and immediate improvement in muscle performance as assessed by muscle activation.

STOMPS, strengthening and optimal movements for painful shoulders in chronic spinal cord injury (SCI), is the 4th Project. Lead Investigator Bryan Kemp, PhD, Director, Rehabilitation Research and Training Centers on Aging with SCI and Aging with a Disability at Rancho, has a long history of research dealing with the effects of aging with a disability. Upper extremity pain is one of the common problems in the long-term SCI population and shoulder pain can have a significant detrimental effect on function and independence. STOMPS will investigate the effectiveness of a combined shoulder exercise and optimization of performance technique program on pain reduction, performance, and health-related as well as overall quality of life in patients with chronic spinal cord injury.

Principal Investigator Carolee Winstein, PhD, PT, has a long and successful record of providing leadership in promoting clinical research at USC and at the policy level within the APTA. She served as chair of the research committee for the Neurology Section of the APTA and as a member of the Postdoctoral Fellowship and Doctoral Scholarship Committee for the Foundation. She was the 1992 APTA Eugene Michels New Investigator Award recipient and is currently a member of the Editorial Board of *Physical Therapy*. At USC, Dr. Winstein has been the PI for the NIH funded Multi-site Extremity Constraint-Induced Therapy Evaluation (EXCITE – See USC PT In Motion, Fall 2000) project and was named Co-PI for the multi-site EXCITE trial in January of this year.

Department Chair James Gordon, EdD, PT, is serving as Co-Principal Investigator. Known for his contributions to our understanding of motor control, Dr. Gordon is a contributor to two major

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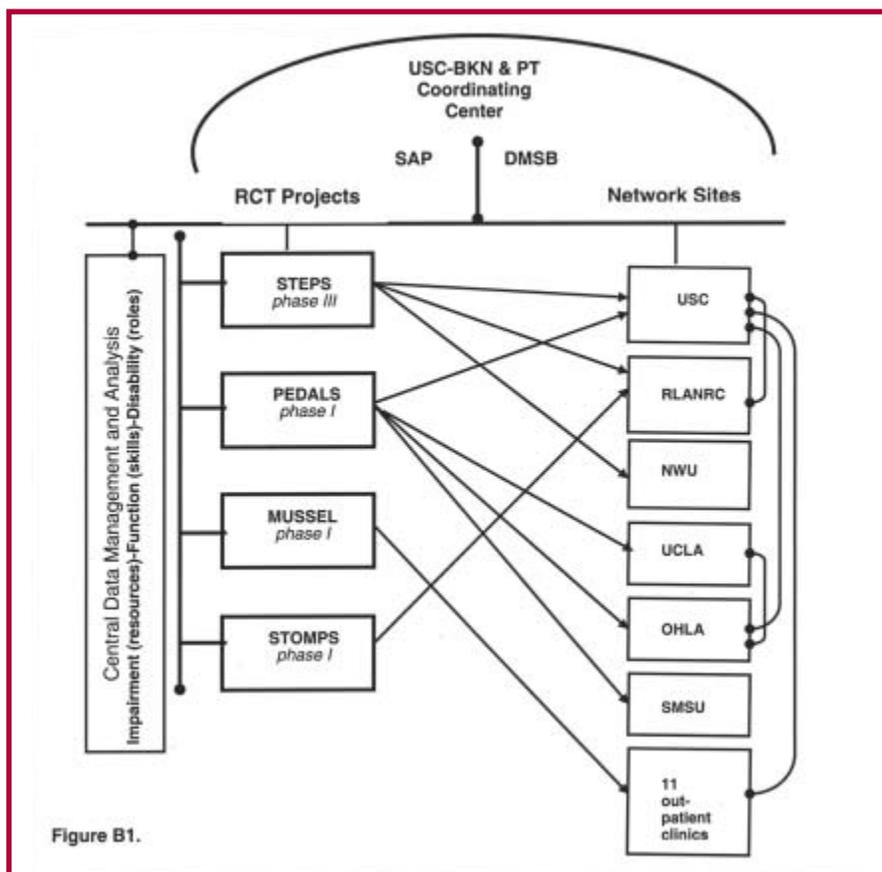
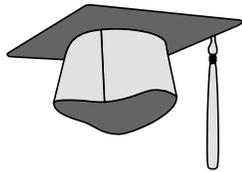


Figure B1. Illustrates the structure of PTclinResNet with the umbrella coordination center providing oversight, data management, education, training, and fiscal management for the four projects (left column) that will unfold across seven effective sites (right column). In reality, there are more than seven sites as the bottom box represents 11 different out-patient orthopedic clinics in the Greater Los Angeles Area including USC PT Associates. SAP = Scientific Advisory Panel; DMSB = Data Monitoring and Safety Board; RLANRC = Rancho Los Amigos National Rehabilitation Center; NWU = Northwestern University, Department of Physical Therapy and Human Movement Sciences; UCLA = University of California at Los Angeles, Department of Orthopedics; OHLA = Orthopedic Hospital of Los Angeles; SMSU = Southwest Missouri State University, Department of Physical Therapy. The right outside brackets illustrate the currently existing institutional and/or collaborative links between sites.



Keeping in Touch

GRAD 1964

Clifton E. (Gene) Boyd – Retired. Life member of the APTA. Learning computers, playing golf, enjoying grandchildren (3). Post MI – 1995.

GRAD 1966

Ingrid E. Altman – I retired along with my husband. Got bored. Doing part-time home PT and office coverage for an associate.

Betty (Elizabeth) Anne Stein Bulich – I enjoyed so much reading Alumni Notes in spring 2001 newsletter. The note from Mary E. Bennett (1951) was of particular interest since she was one of my excellent instructors. Frances Patton, former Chief PT at LAC+USC was a wonderful supervisor during my internship days at LAC+USC. Think of them and Roxie Morris, Margaret Bryce, and Margaret Rood so often. USC PT



Betty Bulich finished the Suzuki Rock n'Roll Marathon in 4 hours and 7 minutes.

was such a gift to me. I love my profession and have stayed very active in the field the past 37 (!) years. Orthopedics and sports medicine have been of particular interest since I started running 20 years ago. (I have “logged” 10 marathons in the past 6 years, including Boston, L.A., NYC.) My support and thanks to USC PT program. I am still working at Del Mar P.T., Del Mar, CA; celebrated 35 years of marriage this year in Italy and enjoyed sharing times with an adult son and his wife, and our daughter.

GRAD 1970

M. Beverly (Obayashi) Toyama – In my 31st year at L.A. County + USC Medical Center, as CCCE; son Tory, graduated from USC in May, 2001 and teaches at a middle school; son, Kyle, attends Santa Monica College; have been a mentor for Asian and Pacific American pre-PT USC students since 1997; began marathon training at age 52 and completed two marathons and two half-marathons. Enjoyed your Spring 2002 issue and especially the articles on my former beloved teacher, Lenny Krussel, classmate, Kathy Bice, and colleague, Maureen Rodgers!

GRAD 1971

Richard C. Raczka – I was admitted to the PT school with Roxie Morris as Chair. I remember Roxie, Margaret Bryce, and “Lenny” well. After my internship and working as a PT at Anaheim Memorial Hospital for two years, I returned to medical school and am now an Orthopaedic Surgeon in Anaheim. After 19 years as a surgeon, I have presented many PT’s and PT students Joint Replacement Surgery.

GRAD 1976

Neil Sturman – I am married to Michelle, also a physical therapist, and have two great kids, Nicole 2 ½ years, and Michael 9 months. I’ve been in private practice with a manual therapy specialty since 1984. We built a new building last year for our practice, Encinitas Physical Therapy.

GRAD 1977

Joyce Landes – Since graduating, I have worked for 25 years at Santa Clara Valley Medical Center. Currently, I am the Administrative Manager for Therapy Services. I am happily married and have 2 daughters and 1 son. One daughter is a student in USC’s Annenberg School. The oldest daughter will enter USC’s DPT program this fall!



The Landes Family

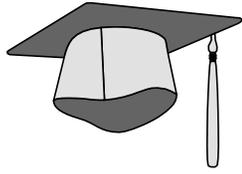
GRAD 1981

Chang-Yu John Hsieh – Besides full-time practice at my own two clinics, I have been serving as a consultant to Medicare since 1996, and as a grant reviewer for National Institute of Health since 2001. Between 1995 and 1999, I was principal investigator for a large randomized clinical trial on low back pain funded by US Public Health Service. The results will appear in the June 1, 2002 Issue of Spine, entitled “Effectiveness of Four Conservative Treatments for Subacute Lowback Pain: a Randomized Clinical Trial.” USC PT education I got is #1. Thanks to Dr. Joan M. Walker, Dr. Helen Hislop and Dr. Stanley Azen. They’re great!

GRAD 1983

Lisa Meyerhof Jones – I have 2 girls, ages 7 and 23 months. I am starting an ergonomics business called Ergonomic Solutions and work part-time in a sports medicine clinic in Rancho Santa Margarita. Had a reunion with Leslie Torburn, Marcia (Rosen)

Keeping in Touch



Greenberg, Marlene Frankiel, Norma Gainz and Suzanne Edwards in Palm Springs January 2002, had a great time.

GRAD 1991

Kitty (Driessen) Sos – I am still working at Enloe Rehab Center, in outpatient. Working with Lymphedema patients, and neuro patients. Our daughter Allison is going to be 4 yrs old in Sept. 2002 and a new baby is due to arrive July 2002.

Scott O. Heisinger – My wife (Lisa) and I are expecting our first baby. Due date is the second week of July (12th - 15th). Life is good!

GRAD 1993

Andrea Gooch Krell – David and I welcomed our second child last year. Jason Lucas Krell arrived April 24, 2001. Big brother Evan is going to be four in August. Hope all is well with the MPT class of '93.

GRAD 1994

Kendra Hunter Burton – I am working for Southwest Washington Medical Center in Vancouver, WA part-time doing home care. Full-time job is chasing after 2 boys, Riley, age 5, and William, age 2.

Scott Edwards – I recently moved out of the rat race in the San Francisco Bay area. I now live in Roseville and work in downtown Sacramento. I'm managing two clinics for NovaCare Rehabilitation. Still consider myself a manual therapist in the mold of "O' D-eus Maximus", Jim Harrison and Rob Landel., but I'm positioning myself for a level of expertise in industrial rehab and work injury prevention services.

GRAD 1995

Micheline (Strand) Coppas – married Michael on Oct. 1995. Veronica is now 3 1/2 years old and Alison is now 2. Moved to the Sacramento area and loving it! I work a few days a week at Sutter Roseville. I mostly enjoy entertaining the kids and working a little to get out of the house.

GRAD 1996

Nicole (Haggerty) Goodwin – I married Dave in 1996 and then we moved to Boston for 3 years to see the east coast. I completed a residency program through the Institute of Orthopedic Manual Therapy in 1997. We settled in Sunnyvale in 1999 and had Trevor in September 2000. I currently work part-time for OPTM Sports and Physical Therapy in Los Gatos.

Charles Curt Robinson – I have worked at St. Joseph Healthcare System, Albuquerque, the last 5 years in the outpatient rehabilitation hospital. I have chaired the NMAPTA education committee and am currently the treasurer. Since 1999, I have been on the clinical faculty at the University of New Mexico, Physical Therapy Department, as a volunteer. In 1999, I received the outstanding clinical instructor award at University of New Mexico, Physical Therapy school. Other than work, I love to travel, dance, and still love movies and Hawaiian shirts.

GRAD 1998

John Kenneth Bob & Keri-Lyn Leong – We were married 9/11/99 and bought a house in Sacramento 2/00. We have a beautiful daughter, Kylie, born 7/28/01. Keri-lyn is a part-time PT at Kaiser, South Sacramento and John recently opened his clinic, Pine Street Physical & Occupational Therapy in Stockton, with co-owner, John Carr, DPT grad '98.

Alan Cheng – Had a baby girl, Sydney Le Cheng, March 16, 2002. Co-owner of a new PT Clinic – OHANA Physical Therapy with Derek Sueki.

GRAD 1999

Sophie Thuy Tritasavit and her husband Sutut had a baby boy, Mathew, October 21, 2001.

Marcie Rhee and her husband Ed are expecting a new addition to the family on 11/19/02 (a boy)!

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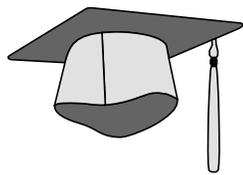
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Keeping in Touch



Jeffrey D. Richardson – Third child born Jan. 18, 2002, named Grant Jeffrey Richardson. Recently hired as Chief Therapist of the Hopi Health Care Center. My family is happy and healthy. We hope you are too!

GRAD 2000

Wendi (Wade/Potter) McKenna – Neil McKenna and I just got married in San Diego on March 23rd. We're still living in Chicago, for the time being. I'm working at Pathways Center, a Pediatric Clinic as Department Manager and Neil is at the RIC Center for Spine and Sports, while also working towards a fellowship in the AAOMPT. Hope all is well with everyone!

GRAD 2001

Diana Finn Sutcliff – My husband, Willis, and I opened a PT private practice in the fall. It's name is Impact Rehabilitation Center and is located in Orange – stop by if you're in the area. I also have a full-time job in rehab at St. Jude's Medical Center. Keeping busy!

Jessica (Rappich) Elia – I am the Director of Rehabilitation Services at San Clemente Hospital and Medical Center. I am responsible for inpatient, outpatient, and acute rehabilitation therapies (PT, OT, ST). It is challenging and very fulfilling. I'm training for my first triathlon. ■

Scholarship Funds Needed

The Department is currently seeking assistance in expanding its scholarship fund. As our tuition costs continue to rise, it becomes more difficult to attract prospective students despite the excellence that the Department represents. Many students are unable to enroll because of the high costs and others struggle to support themselves while in the program. Not only do contributions from alumni and friends provide for scholarship funds to allow students to enter the program, but very frequently, make the difference between successful completion with a lesser degree of debt and, in some cases, dropping out for financial reasons.

The key to continued success is a well endowed scholarship fund. If you haven't yet contributed, please consider sending your donation today in the enclosed postage-paid envelope. When you receive an Annual Fund solicitation from the University, please respond with your contribution. Wouldn't you like to see your name listed alongside those of your classmates and professional colleagues on our Honor Roll! ■

Insuring the Next Generation of Physical Therapists

On July 25th, the Department hosted an open house for minority undergraduate students in the HePP program (Health Professional Preparation Program). This program helps minority students who are oriented toward the health sciences to succeed in college and to become more aware of different types of health professions.

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HePP students receive scapular stabilization exercise instruction from Dr. Mike O'Donnell in the Musculoskeletal Biomechanics Research Lab.

\$1.5M Award *(continued from page 3)*

textbooks in neuroscience, *Principles of Neural Science* and *Movement Science: Foundations for Physical Therapy in Rehabilitation, 2nd Edition*. This year he was presented with the Leadership in Education Award from the Education Section of the APTA. His presence at USC for the past two years has helped the Department of Biokinesiology and Physical Therapy become known for excellence in education, research, and practice.

According to Dr. Winstein, "It is clear that a critical objective for our profession is to examine the efficacy of physical therapist practice through sound scientific methods of clinical research. The unique collaborative arrangement that the funding from the Foundation will allow us to build is designed to foster cutting-edge clinical research now and into the future, across a wide domain of physical therapy practice. We believe that, by combining the talent and resources at many institutions, we can accomplish much more than if we were all working separately. Indeed, we anticipate that the concept of a clinical research network, which the Foundation had the vision to promote, may eventually become recognized as the optimal arrangement for carrying out clinical research, and that PTClinResNet will be the first of many such networks."

If you are interested in learning more about these projects, contact Dr. Winstein at winstein@usc.edu. ■

HONOR ROLL OF DONORS

We gratefully acknowledge the following alumni and friends for their financial contribution and encouragement their support represents. This Honor Roll includes gifts contributed to the Department through the Annual Fund and other restricted accounts during the time period of July 2001 to June 2002. In addition to Annual Fund gifts, we received donations to the following restricted accounts: Center for Locomotor Recovery, Ackerberg Fellowship in Parkinson's Research, Physical Therapy Scholarships, and the Musculoskeletal Biomechanics Research Lab.

Every effort has been made to assure accuracy of this report. Please notify our department of any errors or omissions, and please accept our apologies for them. For further information, please contact Sara Villagran at (323) 442-1193, or email at villagran@usc.edu.

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USC Students Awarded Two Positions in NIH Summer Internship Program

Deborah Bauer and Jill Gleason, both third year DPT students, were selected to participate in the 2002 "NIH Summer Internship Program in Biomedical Research." The program selects the interns from among doctoral and post-doctoral students from all over the country. This is only the second year that PT has been included in this event and we are proud that our students have been selected once again. Among their activities, students worked in the NIH labs, had opportunities to attend seminars and Grand Rounds with the Rehabilitation department, and present at the end of the summer in the Summer Research Program Poster Day.



Jill Gleason (left) and Deborah Bauer.

Gleason's poster was entitled *Evaluating Reports of Physical Medicine Modality Efficacy on Neuromusculoskeletal Pain Based on a Complete "Subject Profile" - A Review of the Literature (1997-2002)*. Her research project was to review current literature to see if there was recent evidence of efficacy of various modalities, including alternative medicine modalities used to treat pain, like acupuncture, craniosacral therapy, massage, strain-counterstrain, and ultrasound. "The experience at NIH was great. It was a good combination of doing research, observing patients, and educational opportunities" said Gleason.

Bauer's poster was entitled *Self-Perceived Competence in Children with Types III and IV Osteogenesis Imperfecta*. "This was an unprecedented experience. I would highly recommend it to any healthcare student" said Bauer. ■

Scholarship Winners

Dorian Rose, PT, MS and Samuel Ward, PT are two of the seven recipients of the \$15,000 PODS II (Promotion of Doctoral Studies) scholarships awarded by the Foundation for Physical Therapy to physical therapists who have been formally admitted to the post-candidacy phase of post-professional doctoral studies. Rose is also the recipient of the Marylou Barnes scholarship, awarded to physical therapists to fund post-professional doctoral studies in neurology. ■

Students at APTA House of Delegates

The Department was well represented this year at the House of Delegates by Sarah Lewis ('03), the California Chapter Student Representative and Ly Tran ('04), first year DPT student. The House of Delegates is the annual APTA meeting where the elected delegates from each state convene to caucus and vote on the various different RC's submitted for the year as well as elect the candidates into office. The students had a chance to sit in on every meeting from Chapter caucuses to determine strategy, to candidate interviews, to the anticipated HOD meetings. "I was allowed and encouraged to participate in discussion, propose ideas and ask questions. All of California's delegates treated me with the utmost respect and were eager to get me involved" said Lewis. ■

Student Recognized for his Vision and Excellence

Shawn Farrokhi, a third year student in the entry level DPT program, is this year's recipient of the prestigious Helen Hislop Scholarship in Support of Vision and Excellence in Physical Therapy. Shawn has a long history of passion for scientific inquiry. As an undergraduate student at Pepperdine University, Shawn was involved in a study on the effects of global self-esteem on the level of physical activity in older adults. He presented this study at the Southern California Conference on Undergraduate Research (SCCUR) at Cal Poly Pomona in 1998. As a DPT student, under the guidance of Dr. Kornelia Kulig, he has been pursuing investigation of spine kinematics, especially the characteristics of the location of instantaneous axis of rotation of the lumbar spine in healthy and symptomatic individuals. He was invited to present his findings at the 4th World Congress of Biomechanics (WCB) in Calgary, Canada in August. Shawn has also co-authored an article with Dr. Chris Powers and Jeff Moreno ('03) on evidence in practice, due for publication in the November 2002 issue of *Physical Therapy*. This fall Shawn will intern at Rancho Los Amigos National Rehabilitation Center, where he will participate in investigation underway at the Pathokinesiology Laboratory. He intends to practice as a clinician while continuing his research activity upon graduation in 2003, and eventually teach at the university level.

Shawn Farrokhi (left) at the WCB 2002 in Calgary discussing his research findings with Monohar Panjabi, PhD from the Biomechanics Research Laboratory at Yale University. ■



Homecoming 2002

All alumni of the Biokinesiology and Physical Therapy Department are invited for the Department's Homecoming pre-game picnic and the USC vs. Arizona State football game, Saturday, November 16th. Game time TBD (call 1-888-TROY-TIME or visit the Trojan website at <http://www.usctrojans.com> for updates). Picnic begins three hours prior to the game. After the picnic, we will be gathering in the Coliseum, where a block of seats have been reserved for the PT Trojan boosters.



Come socialize, enter our raffle, pick-up USC memorabilia and listen to the one and only Trojan Marching Band!

Discounted tickets to the game are \$20 each and a picnic meal and beverage will be available for \$5 per person. Football tickets, directions, and picnic confirmation will be sent to you in the mail.

RSVP to this Department celebration by filling out the bottom order form and returning it with your check payable to: **USC Department of Biokinesiology and Physical Therapy, Attn: Sara Villagran, 1540 Alcazar St., CHP 155, Los Angeles, CA 90089-9006. REQUEST DEADLINE - 10/25/02.** ■

University Hosts 50 and 25 Year Reunions

This year, the University is hosting Homecoming Reunions for the classes of '52 and '77. This is a new reunion program that will take place on the weekend of November 15-17 and will consist of campus tours, faculty lectures and class dinners, as well as festivities surrounding the Homecoming game. Frank Gifford ('52) will be returning to the campus to serve as Honorary Homecoming Chair. For more information on Homecoming Reunion Weekend, please visit <http://alumni.usc.edu> or call the USC Alumni Association at (213) 740-2300. Stop by our Department picnic site for a visit if you are attending your University hosted reunion. ■

Visions for Physical Therapy Lecture

The 2nd annual G. Maureen Rodgers Visions for Physical Therapy Lecture to be held October 24 at Rancho Los Amigos National Rehabilitation Center in Downey will honor and feature **Helen J. Hislop, PhD, ScD, FAPTA**, Emerita Professor of the Department. This event provides a platform for national leaders to think critically about the future of physical therapy practice and its place in the health care system in the 21st Century. The Rodgers Lectureship was established to honor the contributions of G. Maureen Rodgers, MA, PT ('74) to the advancement of physical therapy and rehabilitation practice at Rancho Los Amigos National Rehabilitation Center (RLANRC). Dr. James Gordon, Department Chair gave last year's inaugural lecture.



Dr. Helen Hislop

A reception will be held at 6:00 p.m. and the address will start at 6:45. For further information or directions, please contact the Physical Therapy Department at RLANRC, (562) 401-7061. Reservations for this free event to the physical therapy community may be made by fax: (562) 401-6690, or e-mail: mchapple@dhs.co.la.ca.us through October 17, 2002. ■



YES! I'm coming to the USC Biokinesiology & Physical Therapy Homecoming Celebration!

- Please send me _____ discounted ticket(s) to the Homecoming football game at \$20 each.
- Please reserve _____ meal(s) at \$5 each. (Vegetarian options will be available.)

NAME: _____

ADDRESS: _____

E-MAIL: _____ PHONE: () _____

Chris Powers: A Rising Star

Christopher Powers, PhD, PT, Assistant Professor and Assistant Chair of our Department received the Eugene Michels New Investigator Award from the American Physical Therapy Association. This prestigious award recognizes an outstanding new investigator who has demonstrated a commitment to a defined research theme. Dr. Powers' impressive record made him a highly suitable candidate for the award. Writing in support of his nomination, Dr. Jacqueline Perry, Emeritus Professor of the Department said that she supported Dr. Powers' nomination "because his productivity, creativity and quality of output have been outstanding."

Dr. Powers completed his Ph.D. in Biokinesiology at USC in 1996 and his post-doctoral training in the Orthopaedic Biomechanics Laboratory of the University of California, Irvine in 1997. His overall research objective has been to establish the biomechanical determinants of musculoskeletal function and to use the principles thus derived to work out the pathomechanics of injury as well as the potential effects of various interventions.

Dr. Powers boasts a total of 40 publications in highly reputable peer-reviewed journals in the area of orthopaedic physical therapy and surgery for which he is primary author of 21.

He has edited, with Dr. Frank Shellock, a unique text in the diagnostic use of KMRI entitled *Kinematic MRI of the Joints: Functional anatomy, Kinesiology and clinical applications* (CRC Press, Boca Raton, FL. 2001). In addition, he has six manuscripts submitted to peer-reviewed publications, nine publications in books or other non-peer reviewed journals, and more than 70 published abstracts and proceedings.

"Dr. Powers truly presents the complete package of a developing researcher in physical therapy. He recognizes that being a good researcher means accepting the responsibility of leadership", said Dr. James Gordon, who submitted Dr. Powers'



Dr. Powers on a skiing trip in the Colorado Mountains, plays as hard as he works!

"Dr. Powers truly presents the complete package of a developing researcher in physical therapy..."

nomination for the award on behalf of the faculty. The quality of his research accomplishments has been recognized with numerous honors and awards including the Physical Therapist Researcher Award, the Dorothy Briggs Scientific Inquiry Awards and the prestigious Steven J. Rose Award for Excellence in Orthopaedic Physical Therapy Research, all from the American Physical Therapy Association.

Dr. Powers oversaw the development and has been the director of the Musculoskeletal Biomechanics Research Laboratory at USC since 1997. In the six years since the completion of his doctoral degree, he has received almost \$550,000 in 14 research grants. Most recently, Dr. Powers was awarded a three-year

\$240,000 research grant from the Whitaker Foundation to study patellofemoral dysfunction. Patellofemoral pain is one of the most common disorders of the knee with as many as one in four of the general population reporting symptoms. Although the cause of patellofemoral joint pathology is believed to be elevated joint stress (force per unit area), this hypothesis has not been adequately tested and causative mechanisms have not been clearly defined. The research project entitled "Biomechanical Determinants of Patellofemoral Joint Stress" is for the purpose of identifying the factors contributing to patellofemoral dysfunction and to quantify the effects of surgical intervention on the restoration of patellofemoral joint mechanics and lower extremity function. To achieve this goal, the project will incorporate advanced imaging techniques, functional gait assessment and biomechanical modeling.

In addition to all of his previously mentioned accomplishments, Dr. Powers carries out the responsibilities of a full-time faculty member and director of the entry-level DPT program at USC. He also makes sure to balance his professional activities with recreation, especially hiking and skiing through various national parks, where he carries out one of his favorite activities—nature photography.

"Chris is clearly on the threshold of an extraordinary career as a physical therapy investigator. As we review what he has accomplished thus far, it is thrilling to realize that this is only the beginning" said Dr. Gordon. ■

FACULTY NEWS

James Gordon, Ed.D., PT received the Award for Leadership in Education from the APTA. The award is the highest honor given by the Section on Education of the APTA.

Julia (Weinman) Burlette, MPT ('95); Yogi Matharu, DPT ('98); John Meyer, DPT ('98); and Chris Sebelki, DPT ('98) were certified as Orthopaedic Clinical Specialists by the American Board of Physical Therapy Specialties.

Jacquelyn Dylla, DPT, in conjunction with the USC University Park Health Center and the USC School of Cinema-Television, created *Spine Tuning* (2001) and *Ready for Rehab* (2002). These two educational CD's allow early access to information that can expedite recovery from common problems seen in the student population. *Spine Tuning* won a 2001 Gold Aurora Award in an international competition recognizing excellence in the film industry at non-national level. *Ready for Rehab* will be submitted for the 2002 Aurora Awards competition.

Kathleen Ganley and Christopher Powers, Ph.D., PT ('96) received the Best Poster Award at the 7th Annual Meeting of the Gait and Clinical Movement Analysis Society in Chattanooga, TN in April. Their poster was entitled "Are cadaver based estimates of body segment parameters appropriate for calculating net joint moments in children?"

Robert F. Landel, DPT, OCS (MS '84, DPT '96) was appointed to the Orthopedic Specialty Council of the American Board of Physical Therapy Specialties. The Specialty Councils are responsible for developing, maintaining and validating the clinical specialist certification examinations. Dr. Landel is also a member of the APTA's Committee for Credentialing Post-professional Clinical Residency and Fellowship Programs. He and his son hiked from Tuolumne Meadows to the Yosemite Valley floor, battling bears and blisters the whole way!

Michael O'Donnell, DPT, OCS (MS '83, DPT '96); Stephen Reischl, DPT, OCS (DPT '97) were re-certified as Orthopaedic Clinical Specialists by the American Board of Physical Therapy Specialties.

E. Todd Schroeder, Ph.D. ('00) received wide media coverage for the publication of his study findings on how supplemental androgen therapy could help older men retain muscle mass. His study was chosen as 1 of 125 from over 2500 submissions to be covered by the media at the Endocrine Society's 84th Annual Meeting in San Francisco, June 19-22. In addition to serving as an aging panel expert for a one-hour press conference, media inquiries included *Time Magazine*, *Forbes*, *Reuters*, *Science*

Daily, *Doctor's Guide*, *The Times of India*, *China Daily*, and many other newspapers and web media.

Jack E. Turman, Jr., Ph.D., PT was promoted to the rank of Associate Professor of Biokinesiology and Physical Therapy with tenure in June.

Carolee Winstein, Ph.D., PT received NIH funding from NINDS for three years to study the brain and behavioral correlates of arm recovery after stroke using fMRI and movement kinematics. ■

A Fond Farewell

Kim O'Connor, Ph.D., PT has resigned from her position as Assistant Professor. Dr. O'Connor joined the Department 13 years ago as an instructor. She graduated with a Ph.D. in Biokinesiology in 1994 and became Assistant Professor immediately after. She was Director of the Bone and Joint Histomorphometry Laboratory in the Department and her research was directed toward understanding the influences of mechanical stimulation generated by weight bearing and movement on the development, aging, and repair of bone and cartilage. Dr. O'Connor will be moving to Lake Havasu City, Arizona where she will be working in partnership to establish and manage an Orthotics and Prosthetics Practice. We wish her much success in her new endeavors. ■



Next Generation *(continued from page 6)*

Undergraduates enrolled in this program live for six weeks in the USC dorms on University Park Campus (UPC) and attend classes during the day. In the evenings, they attend information sessions about different health professions. In order to help them learn more about the physical therapy profession, the Department hosted them to see and hear about what we do.

About 40 students arrived by bus at about 6:00 p.m. from UPC to a pizza dinner. They were separated into small groups and taken to the different department laboratories where faculty and students held demonstrations and question and answer sessions for them. ■



LET'S KEEP IN TOUCH

We'd like to hear from you and share your news with other alumni in an upcoming issue of USC PT *In Motion*. Please mail this completed form to: USC Department of Biokinesiology and Physical Therapy, Attn: Sara Villagran, 1540 Alcazar St., CHP 155, Los Angeles, CA 90089-9006 or fax to (323) 442-1515. You may also e-mail your news to villagra@usc.edu. **Photos are encouraged.**

FULL NAME: _____
first middle last middle/maiden

DEGREE/YEAR: _____ CHECK HERE IF THIS IS A NEW ADDRESS

HOME ADDRESS: _____

CITY/STATE/ZIP: _____

TELEPHONE: _____ E-MAIL _____

HERE'S MY NEWS : _____



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