

FALL 2004

PROFICIO

HELPING, ADVANCING, MAKING PROGRESS IN PHYSICAL THERAPY



A Woman of Substance



◆ 1956 - 2006 ◆

Department of Physical Therapy

PTRS

& Rehabilitation Science

◆ 50 Years of Excellence ◆

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School of Medicine
Physical Therapy Alumni Association
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January 1, 2004 – December 31, 2004

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UPCOMING CALENDAR OF EVENTS*

DECEMBER

10–12 Continuing Education: "Biomechanical Evaluation and Treatment of the Cervical Spine and TMJ," taught by Jim Meadows, BSc PT, MCPA, COMP, NAIOMT, 8 a.m.–5 p.m., Allied Health Building, 100 Penn St. Contact Hours: 22. Cost: \$550

JANUARY 2005

7 Mandatory Seminar for New Students: "Introduction to the DScPT and TDPT Programs," taught by Fran Huber, PT, EdD, time, location, contact hours, and cost TBA.

13 Career Day Fair, 8–11 a.m., University of Maryland, Baltimore, location TBA.

29–30 Continuing Education: "Physical Therapists as Primary Care Practitioners," taught by Robert DuVall, PT, DHSc, MMSc, OCS, FAAOMPT, MTC, PTC, CSCS, time TBA, Allied Health Building, 100 Penn St. Contact Hours: 15. Cost: \$375

FEBRUARY

11–13 Continuing Education: "Biomechanical Evaluation and Treatment of the Upper Extremity," taught by Jim Meadows, BSc PT, MCPA, COMP, NAIOMT, time TBA, Allied Health Building, 100 Penn St. Contact Hours: 20. Cost: \$500

23–27 APTA Combined Sections Meeting, New Orleans, La.

MARCH

5–6 Continuing Education: "Fundamentals of Orthopaedic Radiology," taught by Lynn McKinnis, PT, OCS, time TBA, Allied Health Building, 100 Penn St. Contact Hours: 13. Cost: \$325

* NOTE: Times and locations are subject to change. For updated information, please consult the department Web site at www.pt.umaryland.edu.

PROFICIO

HELPING, ADVANCING, MAKING PROGRESS IN PHYSICAL THERAPY

Proficio is the bi-annual magazine of the Alumni Association of the University of Maryland School of Medicine's Department of Physical Therapy and Rehabilitation Science. Archive copies of *Proficio* (in PDF format) can be found at <http://pt.umaryland.edu/department/#Proficio>.

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Letter from the Chair: National Recognition



The Department of Physical Therapy and Rehabilitation Science is a very busy place. With the graduation of our last Masters in Physical Therapy (MPT) class this spring, we are now down to four different

degree programs, Doctor of Physical Therapy (DPT), Doctor of Science in Physical Therapy (DScPT), Transitional Doctor of Physical Therapy (TDPT), and PhD in Physical Rehabilitation Science.

This year we were ranked 16th in the country by *U.S. News & World Report*. We appreciate the national recognition, and with our combination of entry-level and postprofessional programs, we are poised for even greater success in the future. Our hard working faculty and staff have done a tremendous job of balancing the demands of these excellent programs and our graduates continue to make us very proud. Over the years the department has graduated a total of 1,879 students: 1,230 BSPT, 572 MPT, 13 DScPT, 59 TDPT, and 5 PhDs. We continue to make significant progress toward reaching the initiatives set forth in the 5-year strategic plan.

In 2006, our DPT program will receive an accreditation site-visit from the American Physical Therapy Association (APTA). That year will also mark the 50th anniversary of the department and plans are underway for a great celebration, so stay tuned.

In staffing news, I am delighted to welcome four new faculty members to the department: Vincent Conroy, PT; Gregory Hicks, PT, PhD; Susanne Morton, PT, PhD; and Frances Sheehan, PhD. Karen Sack also joined our staff as administrator.

The department has a number of activities planned for our alumni, donors, and students and we hope you will attend. We will continue to keep you informed of upcoming events and continuing education opportunities.

We hope to see you soon!

Mary M. Rodgers, PT, PhD
Professor and Chair

A Woman *of* Substance

BY MICHELE WOJCIECHOWSKI

PHOTOGRAPH BY BILL DENISON

When Celina Boer Schmidt graduated from the University of Maryland School of Medicine's Department of Physical Therapy and Rehabilitation Science (PTRS) in May 2004, she didn't seem any different from her classmates.

Sure, she achieved scholastically, graduating with a 3.95 average. But other than that, Schmidt seemed like any other physical therapy student.

Not quite. While her classmates struggled with difficult classes, all nighters, and exams, Schmidt was dealing with a much bigger struggle. She was fighting cancer.


Just a Cough?

In the summer of 2001, Schmidt arrived at the Department of PTRS ready for a challenge. What she didn't know at that time was that the real challenge would have nothing to do with her classes.

Before she moved to Maryland, Schmidt was living in Philadelphia. She noticed a chronic cough and some swelling in her neck. She visited her doctor and was told to use an inhaler and not worry about the swelling. Schmidt assumed she had a respiratory issue and prepared to start her summer classes.

After she had her ID photo taken on the first day of





classes, Schmidt knew that something was definitely wrong; her face and neck were undoubtedly swollen.

That weekend, while moving into her new apartment, Schmidt stood up quickly and passed out. She attributed her fainting to the hot summer and her unairconditioned third-floor apartment. But on Monday, she called a doctor at the University's family medicine clinic and was sent for a chest X-ray.

"I will never forget the look on the X-ray technician's face," says Schmidt. The technician told her to take the X-ray to her doctor immediately.

After dropping off the X-ray, Schmidt headed to class. When she came home for lunch, she had a message from her doctor telling her to go immediately to the University of Maryland Medical Center's (UMMC) emergency department.

At the time, Schmidt didn't know anyone in Baltimore. The closest person was her boyfriend Jake (now her husband), and he was in Washington, D.C. She was alone. The doctor showed Schmidt the X-ray—there was a large mass in her chest.

Schmidt had Hodgkin's Lymphoma, and the tumor was so deeply entangled around all the vessels of her heart that surgery wasn't an option. She was 23 and she had just finished her first week of PT school.

Taking Treatment, Taking Classes

Looking back, Schmidt says that she was still in shock when the doctor gave her the diagnosis and admitted her to the hospital. The gravity of the situation didn't hit her until Jake arrived at the hospital; she finally began to cry.

Schmidt spent the second week of school in the hospital. At the beginning of her third week, she began chemotherapy. Three weeks into the program, Schmidt had only attended one class, but she was determined to make it through.

She underwent 12 chemotherapy treatments over the next 6 months. Next, she completed a month's treatment of radiation, 5 days a week. Throughout the time of her treatment, Schmidt went to the hospital every day for blood work or shots. She received chemotherapy treatments every other Friday.

During the entire 7 months of treatment, Schmidt attended most classes, took her tests, and kept up with her schoolwork.

That first summer was difficult. The course was Summer Anatomy, and students attended class for 8 hours each day. "I was tired," says Schmidt. "But so was everybody."

Classmate Jodi Beitzell, PT '04, often made sure that Schmidt got the notes she needed when she missed class for treatments. She remembers how she felt when Schmidt first told her that she had cancer.

"It absolutely blew my mind," Beitzell says. "Celina was

always positive. Some days, of course, she was more under the weather, but she never complained about it. I really don't know how she was able to get through our coursework with all the chemo and radiation."

Dale Stephenson, the administrator for the Department of PTRS at that time, says it was Schmidt's determination that got her through.

While she was in the hospital, Stephenson took flowers to her from the department. "She showed, even at that time, amazing strength and perseverance," says Stephenson. He adds that Schmidt never felt self-pity—she just wanted to know what she could do to fight the cancer.

Determined to Fight and Win

In 1999, during her senior year of college, Schmidt had lost her mother to cancer. When she herself was diagnosed 2 years later, Schmidt says she decided to fight so hard because her mother didn't make it. "I was kind of saying, 'It's not going to get me too,'" she says.

Laura Riley, RN, OCN, an oncology nurse at UMMC, helped treat Schmidt. She says that the staff was amazed with how Schmidt dealt with it all.

"I still tell stories about her," says Riley. "She was always full of energy. I remember very clearly that she was always bringing books and notes. She would tell me that she was studying for a test that she had right after chemo, and afterwards, she would go and ace the test. It just blew my mind."

Riley remembers Schmidt and her father, Henry Boer, MD, who visited often from Kentucky, talking with each other during some treatments and sharing stories about her mom.

Schmidt's accomplishments during the treatment were no easy feat. Riley says that the chemo Schmidt underwent was very intense—the kind that knocks most people down. Yet Schmidt seemed to get through it easily. "I know it couldn't have been that easy," says Riley, "but she made it seem easy."

One difficult part for Schmidt was losing her hair. But



Celina (far left) during chemotherapy with fellow PT students.

she says that it was more traumatic for Jake.

After she began chemo, Schmidt was told that in about 2 weeks her hair would start to fall out. When it did, she didn't want to keep waiting for each hair to fall out. So on a Friday, as she and Jake sat in her backyard, she literally pulled out all

her hair. It didn't hurt because it was coming out in clumps already. She put

the hair in a bag.

"I couldn't see what was going on. It was slightly traumatic, but it was falling out anyway," says Schmidt. "But Jake could actually see me going from a full head of hair to a few little strands."

Although she started wearing a bandana, Schmidt decided to just go bald. "It's not like I did anything wrong," says Schmidt. "I had chemo, so I was bald. It was summer and it would have been way too hot for a wig and I didn't care how I looked."

During that time, Schmidt learned just how determined and persevering she is. But she still speaks of it matter-of-factly. "I did what I had to do."

And her treatment worked. For the last 2 years, Schmidt has been in remission. The mass still exists in her chest and she tends to get winded walking up flights of steps, but the battle itself seems like it was long ago.

Today, Schmidt has her long hair back. She married Jake in March 2003 and now works at UMMC. She laughs when she tells of the time she visited the White House during her period of radiation treatments and set off alarms, which caused the Secret Service to freak out. She laughs and says that her driver's license still shows her bald—and will for the next 3 years. She laughs...

Stephenson calls her a steel magnolia. "If I had to pick one way to describe her, I'd say she's a truly amazing individual," he says. "The most remarkable thing is that when you tell her she's amazing, she looks at you like 'What are you talking about? Isn't this the way everyone is?'"

"I think, 'No, Celina. Not really.'"

Michele Wojciechowski is a regular contributor to Proficio.

Checking in with the Class of 1958

BY MICHELE WOJCIECHOWSKI



The PT Class of 1958

The University of Maryland School of Medicine's Department of Physical Therapy and Rehabilitation Science will be celebrating its 50th anniversary in 2006. For the next few issues of **Proficio**, we will be reconnecting with members of previous classes to find out how life was then and where they are now.

In 1956, much hard work finally came to fruition when the University of Maryland School of Medicine's Department of Physical Therapy and Rehabilitation Science welcomed its first class members.

There were just four students—Dixie (Smith) Miliner, Ellen (Adams) Gutow, Bradley Nelson, and Pat (Rinaldi) Wright—but these four were about to pave the way for future generations of physical therapy students. At the time, the program led to an undergraduate degree. Students would enroll in the College of Physical Education, Recreation, and Health. They spent their freshman and sophomore years at the College Park campus and their junior and senior years at the University of Maryland, Baltimore (UMB).

The department occupied one large room on the third floor of the Gray Laboratory Building at UMB. Partitions helped to create three offices and a large classroom. All classes except for anatomy were held there; anatomy was held at the medical school's anatomy lab. They had second-hand furniture from state surplus, new physical therapy equipment, and a lot of enthusiasm.

In May 1958, the first four students received their Bachelor of Science degrees in physical therapy from the University of Maryland, College Park. After completing their affiliations in the summer, the students received their Certificates of Proficiency in Physical Therapy from the School of Medicine. On Friday, August 29, 1958, the first class graduated.

And now, nearly 50 years later, we ask, what happened to those first graduates? What did they do and where did they go?

Dixie (Smith) Miliner

After graduation, Dixie (Smith) Miliner began working at Kernan Hospital, the University's interdisciplinary, orthopaedic and rehabilitation hospital. She had volunteered at Kernan during one summer, and it was one of the places where the students had their affiliations.

Miliner has been retired since 1998 and spent the last 17 years of her physical therapy career working for the Howard County School System in Maryland under the county's Diagnostic Center.

Now living in Hamilton, Va., Miliner recalls what it was like being a member of that first class. She remembers taking anatomy, neuroanatomy, and physiology classes as an undergraduate—with graduate students in the Dental School. The PT students took different exams than those of the dental students and were only tested on the anatomy they needed for physical therapy.

One of Miliner's fondest memories is the instruction she received from the late Dr. Gladys Wadsworth, the department's first chair. "She was an exceptional person and an exceptional educator," says Miliner. "We were fortunate to have her in charge of the program."

Miliner recalls that if Wadsworth wasn't satisfied with a student's answers on an exam, she had her own unique way of responding. "She proceeded to write a page and a half of her own answer," she says. "It was unbelievable. Some things you never forget."

Miliner also recalls the challenge of getting to one of her affiliations at Montebello State Hospital. It involved walking downtown to catch a bus to Northwood, then walking another eight blocks or so to get to the hospital—all by 8 a.m.

As a student, Miliner appreciated the opportunity to work with a number of pioneers in the physical therapy field, including Florence P. Kendall. She says she's enjoyed her career in physical therapy and continued to maintain her licensure through this year.

Ellen (Adams) Gutow

Ellen (Adams) Gutow remembers many interesting experiences during her time at school. She recalls carrying the bones she needed for classes around campus in paper bags. Once, the bones dropped out of the bag in a

big lecture hall and went bouncing down the steps. "Those were fun times," she says. "But the schoolwork was also intense." Being part of a small class had its benefits—they each had their own cadavers for anatomy class.

After graduation, Gutow got married and went to work at DC General Hospital. Two years and two babies later, she left to stay home with her children.

That didn't last long. When her second child was 6 months old, she was called for a job that she couldn't turn down—establishing a physical therapy department at Fairfax Hospital in Virginia. Gutow recalls that the salary was high in those years—\$7,200.

"I worked there until I was pregnant again," Gutow laughs, "which was about 18 months. Then I stayed home for awhile."

Gutow never completely stopped working. She says that she was often called to fill in for other physical therapists for weeks at a time. "I don't think I ever looked for a job. They just came over the phone," she says.

About 10 years ago, Gutow retired. She was then working at the Montgomery County Health Department in Maryland. She kept her license until this year and now lives in Highland, Md.

"I never hated to go to work my whole life," Gutow says. "And I don't think too many people can say that."

Bradley Nelson

Shortly after graduation, Bradley Nelson, DDS, worked in physical therapy, primarily in Wisconsin, but he didn't stay in the field long.

In 1961, he was accepted into Marquette University's Dental School in Milwaukee, Wis. In 1965, Nelson graduated and became an intern at Baltimore Children's Hospital. In 1966, he attended the University of Rochester School of Medicine and Dentistry as a research fellow, and in 1970, completed the specialty of orthodontics.

Nelson, who is board certified, practiced in various communities in Maryland and Pennsylvania. He says that dentistry is not necessarily a far cry from physical therapy. "The faculty provided a lot of motivation in all areas," he says.

Today, Nelson is mostly retired and lives in Lakewood, N.Y., on the shores of Lake Chautauqua.

Pat (Rinaldi) Wright

After graduating from the PT program, Pat (Rinaldi) Wright began working at the University of Maryland. She worked in an outpatient clinic for low-income families until her first child was born, returning to work after her youngest child began school.

Throughout her career, Wright has worked everywhere from nonprofits to private practice to hospitals. Today, she works in a private practice in Severna Park, Md., and lives in Annapolis.

According to Wright, the program at the Department of PTRS was a challenge. The work was difficult, and students spent long hours studying and preparing. She remembers observing procedures in operating rooms and having teachers and fellow students help her with her studies.

Wright says that physical therapy has become ingrained in her personality. She loves the field so much that she even retook the licensure exam, but not by choice.

Wright explains that once, during a move to a new home, her licensure application was forwarded to the wrong address. When she applied late, she was told that she had to retake the exam to renew her license.

It had been decades since she finished school, so in preparation for the exam, the department allowed Wright to monitor a few classes. She took the test again and passed. "Surprisingly enough," she jokes. "I must like physical therapy a lot."

Wright continues to see how the school influenced her life. "You never stop studying. I'm always reading something, always studying something," she says. "You can always learn something." ■

President's Message: On the Horizon



Dear Fellow Alums,

Once again, I am thrilled to update you on what's happened in 2004 and what is on the horizon for the Physical Therapy and Rehabilitation Science Alumni Association in the months ahead. Keeping with tradition, the Alumni Association continues to foster the relationship between the Department of Physical Therapy and Rehabilitation Science and its alumni through the sponsorship of continuing education seminars, the publication of *Proficio*, the scheduling of several social activities geared toward reuniting friends and colleagues, and promoting student development.

Thanks to the efforts of our executive board, the Alumni Association sponsored a continuing education course on vestibular issues, hosted student lunches, and celebrated the summer with a trip to an Orioles game preceded by a general alumni membership meeting. Don't despair if you were not able to attend all of these exciting events. Our calendar is full of opportunities for your participation, including additional continuing education programs, alumni social events, PT Month activities, and our Phone-a-Thon. Details on future events and courses are available on our updated alumni Web site at www.pt.umaryland.edu/alumni. Stay tuned. Preparations are also underway to celebrate the PTRS department's 50th anniversary in 2006.

As the department grows and evolves, so does the depth of our alumni. We welcome and encourage continued increases in membership and applaud those who have chosen to take an active role by sitting on the board or joining a committee. I hope each of you will consider becoming more involved in the Alumni Association and look forward to seeing many of you over the next few months at our upcoming events. Best wishes.

James Dowla, MPT '00
President
PTRS Alumni Association

Class News

Chris Clagett '85 is no longer a PT and is now a physician in the U.S. Navy Medical Corps, where he serves as a general preventative and public health consultant in Europe, Africa, and Asia.

Joy Foster '91 lives in Moon Township, Pa., and is working part-time as a home care physical therapist for Allegheny Home Care. She stays busy taking care of her four children, Lea, Jenna, Matt, and Madison, with her husband, Ronald.

Pam (Cole) Dercola '00 moved from Western Maryland to Sykesville in July. Her son, Michael, is turning 2 years old in October. Prior to the move, Pam worked at Washington County Acute Care and in acute rehab settings. She is currently looking for a position and would like to start work again in the fall. Pam is looking forward to participating in upcoming alumni events.

Veronica L. Whetsel '02 recently opened a business, Mission Physical Therapy and Fitness, LLC, at Big Vanilla Athletic Club in Arnold, Md., where she provides medically based Pilates, yoga, and wellness programming. Veronica is earning her certifications in Pilates, yoga, and strength and conditioning through the Professional Health and Fitness Institute in Bethesda, Md. She recently moved to Arnold, Md., with her husband, David, and their two boys, Ethan and Graham.

Lorrie Filsinger-Miller's '03 son, Jarrett, turned 1 in March.

Births

Carlene Kuczma '02 and her husband, Brian, welcomed their daughter, Riley Noelle, in August 2003.

Ellen Wruble Hakim '03 and husband, Dan, announce the birth of their daughter, Macie Ryan, on July 29. Macie joins older sister Makenna.

SURVEY

Please take a moment to complete this survey. Your answers will allow us to better serve all alumni. Additional comments are welcome and all information will remain confidential.

1. Are you currently practicing physical therapy?
☐ Yes ☐ No
2. If yes, what is your field of employment and area of specialty? _____

3. Please describe the population that you serve.

4. What percentage of your practice includes this population? _____
5. Have you served as an affiliation site for students enrolled in our entry-level MPT or DPT program?
☐ Yes ☐ No
6. If you have not served as an affiliation site, may our clinical education staff contact you and discuss this option? ☐ Yes ☐ No
(If yes, please complete #19.)
7. Are you the owner or part owner of a private practice? ☐ Yes ☐ No
8. Would you or your company be interested in sponsoring or purchasing advertising in the *Proficio* alumni magazine?
☐ Yes ☐ No (If yes, please complete #19.)
9. If you know of other companies in your community that may be interested in sponsorship and partnership opportunities with the Department of PTRS, please list here.
Company: _____
Contact: _____
Phone: _____
E-mail: _____
10. Would you be willing to serve as a class captain and contact other alumni by letter or phone for our Annual Fund?
☐ Yes ☐ No (If yes, please complete #19.)
11. Would you be willing to serve as a class representative and contact other alumni by letter, phone, or e-mail concerning events for the department's 50th anniversary?
☐ Yes ☐ No (If yes, please complete #19.)
12. What continuing education topics would you like the department to sponsor?

13. What are your suggestions for future articles in the *Proficio* alumni magazine?

14. How would you prefer to receive future issues of *Proficio*?
☐ Traditional mail ☐ E-mail
Your e-mail address: _____
15. What type of alumni social events would you like to participate in?

16. Would you be interested in an Alumni Association sponsored community service activity?
☐ Yes ☐ No If yes, do you have any suggestions (e.g., Habitat for Humanity)?

17. What suggestions do you have about how the Alumni Association can provide further benefits to our members? _____

18. Would you be interested in mentoring a current PT Student? ☐ Yes ☐ No
(If yes, please complete #19.)
19. Please contact me concerning:
☐ DPT Affiliation
☐ Sponsoring/Purchasing Ads
☐ Class Captain
☐ Class Representative
☐ Mentoring
Name: _____
Address: _____

Phone: _____
E-mail: _____

Please clip completed survey and send to:
University of Maryland School of Medicine
Department of PTRS
100 Penn Street, Suite 115
Baltimore, MD 21201

By joining the University of Maryland School of Medicine's PTRS Alumni Association, you become eligible for the following rewards:

- Savings on Continuing Education Programs
- Voting Privileges
- 50 Percent Off of Selected Video Press Rentals Directly from the Alumni Office
- Special Discounts and Invitations to Alumni Association Events

Membership dues support the following activities and programs:

- Third-Year Welcome to the Alumni Association
- First-Year End of Anatomy Pizza Party
- Second-Year Breakfast
- Physical Therapy Month Events
- APTA Conference Financial Aid for Students
- Senior Alumni Award
- The Alumni Office
- Alumni Events
- Alumna/Alumnus of the Year Award

PTRS Alumni Association Membership Form

Name _____ Class Year _____

Address _____

City _____ State _____ Zip _____

Phone _____ E-mail _____

☐ \$40 for 1 year ☐ \$75 for 2 years

I can volunteer for the Alumni Association:

(check all that apply)

- ☐ Phone-a-Thon
- ☐ Development Committee
- ☐ Awards Committee
- ☐ Social Committee
- ☐ Continuing Education
- ☐ Administrative Assistance
- ☐ Reunion Planning
- ☐ Event Coordination
- ☐ Anniversary Celebration Planning
- ☐ Other

Show your support for the PTRS Alumni Association by sending your check today! Please complete this form and mail along with your dues. Checks can be made payable to UMB Foundation and mailed to: PTRS Alumni Association, 100 Penn Street, Suite 115, Baltimore, MD 21201.

Clinical Instructors Needed for PTRS Service Learning Center

In March, the department initiated a student service learning center (SLC) to provide physical therapy evaluation and treatment for indigent and disadvantaged patients. The SLC provides an opportunity for the department's faculty to practice and teach within our Allied Health Building facilities, while modeling the curriculum's thread of community and professional service.

To identify patients for the project, the department is collaborating with the University of Maryland School of Nursing and its Open Gates Health Center, and Healthcare for the Homeless, a private provider of health-related services, education, and advocacy, to reduce the burdens of homelessness in Maryland. To date, eight students have volunteered in the center under

the supervision of four of the department's faculty. This fall, the SLC will serve as a part-time clinical education site for two of the program's second-year students.

With more licensed clinicians, the center could train as many as six of our students during a 7-week, part-time clinical affiliation. To do this, the department is encouraging local clinicians and alumni to contribute to the center's mission by serving as SLC clinical faculty members. Opportunities exist for short- or long-term commitments, as well as adjunct faculty appointments through the School of Medicine.

If you are interested in serving as an SLC clinical instructor, please contact the department at 410-706-7720.

REMEMBERING LINDA C. HARVEY, MA, PT '91, PhD '04 (1962-2004)

BY MICHELE WOJCIECHOWSKI

Linda Harvey always believed that laughter is the best medicine. She practiced that philosophy by making her patients laugh through pratfalls, props, and good-natured pranks, much to the delight of those around her.

But on April 2, the laughter stopped when Harvey passed away from a pulmonary embolism.

Born Linda Cooke Clarke in 1962, Harvey grew up in Richmond, Va. She graduated in 1980 from Douglas Freeman High School and in 1984 from Randolph Macon Woman's College, with honors.

In 1990, Harvey earned a master's degree in exercise kinesiology from the Department of Physical Education, Recreation, and Health at the University of Maryland, College Park (UMCP). She earned her BSPT from the School of Medicine's Department of Physical Therapy and Rehabilitation Science (PTRS) in 1991.

Longtime friend Jon Laking, PT '85, met Harvey when they were in graduate school at UMCP. He says Harvey had a way of finding humor in life that others didn't see. She often made fellow students laugh. "She had a big heart. She was a very caring person," says Laking.

Stacey Devine, PT '88, worked with Harvey at the department's faculty practice, PT Associates. Devine recalls that patients loved Harvey. "She had an incredible healing touch, and she always went above and beyond in terms of patient care," she says.

In 1998, Harvey published a book, *Humor for Healing: A Therapeutic Approach*. The book provides health care professionals with a quick, yet thorough, study of humor and its effects on communication, patient therapy, and workplace stress.

Harvey applied the principles in her book to her own work, according to Richard Duckworth, PT '81, co-owner of Bowie Physical Therapy Associates, where Harvey worked for more than 5 years preceding her death.

"She was an excellent therapist, an excellent employee," Duckworth says. "She was just a wonderful person and was always in a good mood."

Throughout her life, Harvey was involved in many different kinds of activities. An accomplished fencer, she was also a good friend of Coach Buddy Green of the



Linda Harvey and her dog, Chelsea.

United States Naval Academy's football team. Harvey was considered the team's good luck charm, because it won every game she attended. Green even made her an honorary defensive backs coach.

Linda Harvey was scheduled to defend her doctoral dissertation for a PhD in sports psychology in the Department of Kinesiology at UMCP on April 29. The school awarded the PhD to her posthumously.

Harvey was a member of many professional organizations, including the PTRS Alumni Association, the APTA, the International Society for Humor Studies, and the American Association for Therapeutic Humor.

Linda is survived by Mike Harvey of Glen Burnie, Md., her husband of 15 years; her dog, Chelsea; her father, Alexander M. Clarke, and his family of Warsaw, Va.; her mother, Elizabeth A. Clarke, of Richmond, Va.; and her brothers, Alexander M. Clarke Jr. and Conner Clarke, both of Richmond.

Mike Harvey says that Linda was very easy to talk to. She would always take time to help friends with problems, day or night.

"She was always there for them and for me," he says.

2004 Faculty Activities

PUBLICATIONS

Todd Cade, MSPT, PhD, **Sharmila Nabar, MSPT**, PhD candidate; and **Randall Keyser, PhD**, associate professor, published two articles, "Reproducibility of the Exponential Rise Technique of CO₂ Rebreathing for Measuring P_VCO₂ and C_VCO₂ to Noninvasively Estimate Cardiac Output During Incremental, Maximal Treadmill Exercise," and "Aerobic Exercise Dysfunction in Human Immunodeficiency Virus: A Potential Link to Physical Disability," in the 2004 issue of *The European Journal of Applied Physiology and Physical Therapy*.

Margaret Finley PT, PhD, adjunct assistant professor; **Elizabeth Rasch, PT, MS**, PhD candidate; **Randall Keyser, PhD**, associate professor; and **Mary Rodgers, PT, PhD**, professor and chair, published three articles, "The Biomechanics of Wheelchair Propulsion in Individuals With and Without Upper Extremity Impairment," "The Prevalence and Identification of Shoulder Pathology in Athletic and Non-Athletic Wheelchair

Users," and "Effects of a 12-Week Home Exercise Program for Manual Wheelchair Users," in the 2004 issue of *The Journal of Rehabilitation Research and Development*.

Larry Forrester, PhD, assistant professor; **Michelle Harris-Love, MPT**, PhD candidate; and **Jill Whitall, PhD**, professor, published an article, "Improved Hemiparetic Muscle Activation in Treadmill Versus Overground Walking," with another author in the 2004 issue of *Neurorehabilitation and Neural Repair*.

Sandy McCombe Waller PT, PhD, assistant professor, and **Jill Whitall, PhD**, professor, published an article, "Fine Motor Function in Adults with Chronic Hemiparesis: Baseline Comparison to Non-Disabled Adults and Effects of Bilateral Arm Training," in the *Archives of Physical Medicine and Rehabilitation*. They also co-authored an article in *Neuroimage*, "Lesion Location Alters Activation in Chronically Impaired Stroke Survivors," with **Larry Forrester, PhD**, assistant professor; **Gerald Smith, PT, PhD**, faculty alumnus; and other authors.

David Russ, PT, PhD, assistant professor, co-authored an article, "Age-related Enhancement of Fatigue Resistance Is Evident in Men During Both Isometric and Dynamic Tasks," available online in the 2004 issue of *The Journal of Applied Physiology*. Russ also co-authored an article, "Is Skeletal Muscle Oxidative Capacity Decreased in Old Age?" in the March issue of *Sports Medicine*.

Fran Sheehan, PhD, assistant professor, and **Steven Stanhope, PhD**, graduate faculty, published an article, "Sensitivity of Femoral Orientation Estimates to Condylar Surface and MR Image Plane Location," with other authors in *The Journal of Magnetic Resonance Imaging*.

Chris Wells, PT, PhD, adjunct assistant professor, published two chapters, "Physical Therapy Management of Musculoskeletal Dysfunction: An Evidence-Based Integrate Guide to Cardiopulmonary Physical Therapy," and "Pulmonary Pathology: An Evidence-Based Integrate Guide to Cardiopulmonary Physical Therapy," in the book, *Cardiovascular and Pulmonary Physical Therapy: An Evidence-Based Approach*.

Jill Whitall, PhD, professor, wrote an invited editorial, "Stroke Rehabilitation Research: Time to Answer More Specific Questions?" in the 2004 issue of *Neurorehabilitation and Neural Repair*.

PRESENTATIONS

Larry Forrester, PhD, assistant professor, presented a poster on his study with **Federico Villagra, PhD**, assistant professor, and others, "Treadmill vs. Stretching: Short-term CNS Adaptations to Single Bouts of Submaximal Exercise in Chronic Stroke Patients," at the 5th World Stroke Congress in Vancouver, Canada, on June 23. Forrester contributed to two other presentations: "Bilateral Training Induces Functionally Relevant Recruitment of Contralesional Motor Cortex in Chronic Stroke Survivors," with **Sandy McCombe Waller, PT, PhD**, assistant professor; **Jill Whitall, PhD**, professor; **Gerald Smith, PT, PhD**; faculty alumnus; and others, and "Brain Activation Patterns During Paretic Movement Depends On Side of Stroke," with Whitall, McCombe-Waller, Villagra, and others.

Ellen Wruble Hakim, PT, DScPT, CWS, assistant professor, made a poster presentation, "Influence of Manufacturer Interaction on Student Perceptions and Clinical Decision Making," at the 19th Annual Clinical Symposium on Advances in Skin and Wound Care and at the 8th Annual Wound Care Congress.

Michelle Harris-Love, MPT, PhD candidate; **Sandy McCombe Waller, PT, PhD**, assistant professor; and **Jill Whitall, PhD**, professor, participated in a symposium, "Does Focused Bilateral Arm Training Enhance Recovery of Upper Limb Hemiparesis? Theory and Evidence," at the 2004 Annual Conference and Exposition of the American Physical Therapy Association in Chicago on June 30. Harris-Love, McCombe-Waller, and Whitall, with **Wei Liu**, PhD candidate, also presented a poster, "Ability to Alter Reaching Speed in Different Coordination Patterns After Stroke," at the North American Society for the Psychology of Sport and Physical Activity annual meeting in Savannah, Ga., and at

Progress in Motor Control IV, Caen, France. Harris-Love also presented a poster, "Coordination of Unilateral and Bilateral Reaching Movements in Patients with Chronic Hemiparesis," at the International Conference on Motor Control in Barcelona, Spain.

Wei Liu, PhD candidate; **Larry Forrester, PhD**, assistant professor; and **Jill Whitall, PhD**, professor, presented a paper, "Demonstration of Time-Frequency Analysis Methods for Finger Tapping," at the annual meeting of the North American Society for the Psychology of Sport and Physical Activity in Vancouver, Canada, in June 2004. The paper was published in *The Journal of Sport and Exercise Psychology*.

Kelly McBride, PT, MA, adjunct assistant professor, and **Carrie Foeller, MSPT**, instructor, made a poster presentation, "The Utilization of Simulated Patients to Assess Communication Skills in Physical Therapy Students," at the American Physical Therapy Association Combined Sections Meeting in Nashville in February.

Sandy McCombe Waller, PT, PhD, assistant professor, presented a poster, "Cortical Inhibition and Facilitation in Unilateral versus Bilateral Movement Tasks and Adaptability to Training in Nondisabled Adults," at the International Conference on Motor Control in Barcelona, Spain.

Fran Sheehan, PhD, assistant professor, presented "Independent Kinematics of the Hind Foot, an In Vivo Non-Invasive Study," at the Foot and Ankle Research Retreat II in April. She also presented "The In Vivo Achilles Tendon Properties and Risk Factors for Rupture" at the Whitaker 2004 Biomedical Engineering Research Conference.

Shih-Chiao Tseng, PhD candidate, presented a platform talk at the International Society of Electrokinesiology (ISEK) based on work with faculty alumnus **Kevin McQuade, PT, PhD**. Also presenting at ISEK was PhD candidate **Wei Liu**.

Federico Villagra, PhD, assistant professor, gave two presentations on April 1–2 in Madrid, Spain. He

presented the first, "Neuroplasticity and Stroke Rehabilitation," at Clinica Ruber Internacional, and the second, "Neuroplasticity and Hemiplegia in Stroke Patients," at the University of Navarre.

AWARDS & GRANTS

Gad Alon, PT, PhD, associate professor, received a short-term project from Bioness, Inc. The 3-month, \$10,938 award focused on training in special splint and computerized neuromuscular electrical stimulation. In August, Alon received a new 12-month, \$100,000 award to continue this research.

Larry Forrester, PhD, assistant professor, was awarded a 3-year Advanced Research Career Development Award from the Veterans Affairs Rehabilitation Research and Development Service. His project, "Development of an Ankle Robot Module with Treadmill Training in Chronic Stroke," studies motor learning and neural plasticity responses in stroke survivors who undertake aerobic treadmill training and is conducted in collaboration with MIT and Johns Hopkins.

2004 Faculty Activities

Frances E. Huber, PT, EdD, assistant professor and director of postprofessional programs and continuing education; **Lorraine Doucette, MS, MT (ASCP)**, of the Department of Medical and Research Technology; and **Lisa Steinberg, MS, CGC**, director of the Masters in Genetic Counseling Training Program, were awarded a 3-year, \$437,264 Health Resources and Services Administration grant for an interdisciplinary health care training and delivery project.

Sandy McCombe Waller, PT, PhD, assistant professor, was awarded a 1-year Claude D. Pepper pilot grant of \$20,000 for her research in stroke and the effect of central motor control mechanisms in response to short-term unilateral versus bilateral training.

David Russ, PT, PhD, assistant professor, received a 1-year, \$14,360 grant from the School of Medicine for his research on the efficacy of T2-weighted magnetic resonance imaging in assessing muscle activation during exercise.

Federico Villagra, PhD, assistant professor, received the Claude D. Pepper Junior Faculty Award to investigate the effect of progressive bilateral training in stroke patients. This research will use imaging, neurophysiological techniques, and functional assessments to investigate the effects of progressive bilateral training on motor function and brain changes in stroke patients.

OUTREACH & SERVICES

Roy Bechtel, PT, PhD, assistant professor, presented a workshop on ergonomics for standardized patients at the School of Nursing in July. The presentation introduced standardized patients to the three neuromuscular subsystems most affected by repetitive movements or static position: joints, muscles, and fascia. Discussions and demonstrations included prevention and treatment of somatic dysfunction.

Ellen Wruble Hakim, PT, DScPT, CWS, assistant professor, and **Kathy Davis, PT, MA**, assistant professor, spoke with middle school students on April 20 in Mt. Holly, N.J., about the incorporation and utilization of math in the profession of physical therapy.

Sandy McCombe Waller, PT, PhD, assistant professor, presented a continuing education workshop to our clinical affiliation site associated with HealthSouth in Columbia, S.C., on evidence-based medicine for clinicians.

Victoria Moerchen, PT, PhD, assistant professor, taught students in kindergarten through second grade about muscles, physical health, and physical therapy at Washington Elementary School's High Interest Day in Wauwautosa, Wis.

William Romani, PT, PhD, assistant professor, has initiated the PTRS Service Learning Center, a project in student service learning that provides physical therapy evaluation and treatment for medically indigent and disadvantaged patients. For more information, see the article on page 10.

Chris Wells, PT, PhD, was appointed to the editorial board for the *Transplant Chronicle* of the National Kidney Foundation. Wells also provided athletic training and PT services for Team Pittsburgh and other transplant recipients at the National Kidney Foundation's Transplant Games 2004 in St. Paul, Minn.



Adjunct faculty Tonas Kalil '85, Danny Hakim, and Ruth Cooke teach suture techniques to third-year students.

Student & Faculty Awards 2004

Dr. Frank H.J. Figge Memorial Award

Given to the graduating student who excels in the study of Human Anatomy.
Kristen Noelle Purdum

Laura G. Levine-Mandell Memorial Award

Recognizes the graduating student who demonstrates the caring and compassion that makes an outstanding clinician.
Joanna Christine Hutson

Elizabeth G. Macaulay Memorial Award

Given for outstanding clinical proficiency.
Allison M. Nigro

Pekar-Abell Pediatric Scholarship

Recognizes the graduate student who demonstrates commitment to pediatric physical therapy through performance in the pediatric course, clinical affiliation, and by the intention to work in a pediatric setting.
Cynthia Young Holloway

Geriatrics and Gerontology Education and Research Program Award

Given to the outstanding professional student who has demonstrated a commitment to the field of gerontological studies.
Julie Kathleen Cook

Senior Alumni Award

Honors the graduating student who demonstrates a dedication to continuing involvement in the PTRS Alumni Association.
Krista Lynne Wainwright

Donald J. Hobart Scholarship

Given to the student who demonstrates excellence in the areas of leadership, academics, compassion, and extra-curricular activities.
Joanna Christine Hutson

Outstanding Graduate Award

Honors the graduate who has demonstrated overall leadership, academic excellence, and clinical proficiency.
Allison M. Nigro

Phi Kappa Phi Honor Society

A national honor society dedicated to academic excellence, honors students with a grade point average of 3.9 or higher.
Kristen Noelle Purdum
Celina Renee Schmidt

Who's Who Among American Colleges and Universities

An honors program that recognizes outstanding students who have participated in professional activities, demonstrated academic excellence, and displayed dedication to the program and to the physical therapy profession.

Nichole Michelle Brake
Daniel S. Gladmon
Joanna Christine Hutson
Al C. Lin
Allison M. Nigro
Celina Renee Schmidt
Brian Chipman Snyder
Rhoger Luis Villalon
Sarah Christine Wagner
Krista Lynne Wainwright

Research Recognition

Acknowledges those students who completed a research project while pursuing the MPT.
Jennifer J. Kim
Allison M. Nigro
Nicole Antoinette Russo

Clinical Instructor of the Year Award

Selected by the MPT students as the most outstanding clinical instructor in the second- and third-year affiliations.
Julia Greninger, PT,
University Specialty
Hospital

Faculty of the Year

Selected by the MPT students as the most outstanding faculty member.
Gad Alon, PT, PhD

Adjunct Faculty of the Year

Selected by the MPT students as the most outstanding adjunct faculty member.
Margaret Finley, PT, PhD

Department of PTRS Ranks As One of Nation's Best

The Department of PTRS at the University of Maryland School of Medicine is ranked 16th in the nation in the "2005 America's Best Graduate Schools" listing by *U.S. News & World Report*. The department is one of 203 physical therapy education programs in the country.

Students Participate in the Pittsburgh-Marquette Challenge

Our students are participating in the Pittsburgh-Marquette Challenge again this year and are aiming to move from third to first place in funds raised! This grassroots fundraising effort, coordinated and carried out exclusively by PT students annually, helps the Foundation for Physical Therapy accomplish its mission of funding critically important physical therapy research.

Marquette University of Milwaukee, Wis., initiated the first challenge in 1989 and is the permanent sponsor, with co-sponsorship awarded to the physical therapy school raising the most money each year. Donations are designated for research projects that evaluate the effectiveness of physical therapy intervention.

The funding is in the form of a 1-year grant for physical therapists conducting scientific and clinical research. In 2004, the recipient of the grant was John Childs, PT, PhD, MBA, OCS, FAAOMPT, of the T.R.U.E. Research

Foundation, for his work in extension-oriented intervention in patients with low-back pain.

In the past 15 years, the Pittsburgh-Marquette challenge has raised more than \$618,000 for the Foundation for Physical Therapy. In 2003, our students raised more than \$4,000 and were nationally recognized in June at the Annual Meeting of the American Physical Therapy Association in Chicago.

Students Participate in APTA Conference

From June 30 to July 3, second-year DPT students Jill Harris and Cyndi Reilly and third-year student Daryl Arnold attended the 2004 American Physical Therapy Association (APTA) conference in Chicago. Days were filled with seminars at the convention center on topics such as burn care, orthopedic interventions, case studies, and poster reviews on current research.

In addition, the students had ample opportunity to meet with several hundred vendors and employers in the exhibition hall. Attendees discussed with company representatives the merits and potential pitfalls of products currently being marketed to PTs.

On Thursday at the annual Honors and Awards Ceremony, Daryl Arnold accepted a third-place award on behalf of the PTRS students for their monetary contribution to the Pittsburgh-Marquette Challenge (see article).

Class and departmental student professional development funds financed the trip to the conference. It was a rewarding experience for our DPT students, as it furthered their knowledge of the field and provided a great opportunity for them to connect with other students and professionals.



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Student Professional Advisory Committee: A Call to Professionalism

By Renee Nyarko '06, committee member

In an effort to promote the importance of interacting professionally with patients, peers, and co-workers, students from the Class of 2005 have developed the Student Professional Advisory Committee (SPAC).

SPAC was designed to provide a mechanism for peer review and resolution of allegations of unprofessional behavior via a democratic process and to serve as a development team for the cultivation and promotion of professionalism among students.

Each class will have its own SPAC committee consisting of nine student members. Officers include chair, vice chair, a liaison from the class, the class president, vice president, and educational affairs representative. The remaining three positions are filled by the chair,

vice chair, and liaison of the adjacent class as objective voting members.

If any student feels that an act of unprofessional behavior has occurred, he or she can report the incident to the committee, which will meet and review the allegation to determine the need for a peer counseling session. If warranted, the accused student will be informed and his or her presence will be required at a meeting with the panel to discuss the issue.

The SPAC is a great way to instill professionalism in students so that they learn how to handle conflicts in a constructive manner. It also gives each class a sense of community, as the students attempt to aid each other in their growth and development as members of the medical profession. The SPAC handbook was officially accepted in June, and the committees are now being assembled within each class.



Kaiser Permanente's Mid-Atlantic States Region encompasses Maryland, Northern Virginia and Washington, DC. For Physical Therapists who seek superior career growth opportunities, we offer a competitive continued education reimbursement of \$1,500, as well as professional development programs. In addition, our clinicians work in a clinical setting that permits scheduling flexibility and a healthy balance of work/life.

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J O B S . K A I S E R P E R M A N E N T E . O R G

Congratulations 2004 Graduates!

May 2004 MPT

Jodi Lynn Beitzell
Stephan R. Bilak
Laura Leigh Birzak
Kristina M. Bolante
Nichole Michelle Brake
Julie Kathleen Cook
Daniel S. Gladmon
Cynthia Young Holloway
Joanna Christine Hutson
Jennifer J. Kim
Reed R. Kroncke
Al C. Lin
Diane Christine Linn
Michele Anne McQuinn
Alpa P. Mehta

Allison M. Nigro
Viraj U. Pandya
Kristen Noelle Purdum
Paula J. Ramsburg
Nicole Antoinette Russo
Rebecca Raye Sauder
Celina Renee Schmidt
LaToya Nicole Simon
Brian Chipman Snyder
Leah Y. Sohn
Timothy Wayne Tucker
Rhoger Luis Villalon
Sarah Christine Wagner
Krista Lynne Wainwright
Khida Latriese Williams
Monique Z. Whitney
Jacqueline Ann Wright

May 2004 PhD

Sandra McCombe Waller

May 2004 DScPT


Joanna M. Blackburn
Kurt S. Brooks
Karen L. Gordes

July 2004

Transitional DPT

Nicole Ann Bjork
Monica Renee Burrell
Lynette Michelle
Christensen
Megan Elizabeth Craig
Martha Ngefor Fon


Hina K. Modha
Nicole Kennedy Jeffers
Jessica Nicole Jordan
John Nguyen Le
Rachelle Hedaria Liwanag
Stacey Janna Marks
Michele Leigh McCarthy
James Lyn Morgan
Melissa Ann Olekson
Alexis JeNeane Pasteur
Kuntal V. Patel
Tiersa Ronnika Shields
Jennifer Dawn Wetmore



Physical Therapists

The Kennedy Krieger Institute, a JCAHO- and CARF-accredited facility, is seeking pediatric trained and experienced therapist to provide center-based early intervention therapy and parent training to families who have children with a wide range of developmental disabilities. In addition, therapist will provide services to children in special needs child-care program and training to the caregivers. Services are provided by a team of PTs, OTs, SLPs, social workers, and service coordinators.

We offer a competitive salary and excellent benefits, including pension, tuition reimbursement, 401 (k) and free parking. To apply, visit us: www.kennedykrieger.org, refer Job ID 32744. Kennedy Krieger does not accept faxed or mailed-in resumes.



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Our Link With the Mayo Clinic

The DScPT Program is moving to Rochester, Minn. Well, not physically relocating, but via a videoconferencing link with the Mayo Clinic in Rochester.

Now, with the help of Internet 2, the University of Maryland School of Social Work, and technical support in all locations, the Department of PTRS can provide didactic seminars to a cohort of about 20 DScPT students practicing or teaching at the Mayo Clinic.

Participants will interact in real time with the instructors and fellow students who are attending the seminar in Baltimore. Seminars that require hands-on participation will be done face-to-face in Minnesota or Maryland, depending on the number of students enrolled from Mayo. With this initiative, the DScPT program is making strides in reaching larger audiences.

The DScPT program offers an advanced clinical degree that combines online learning with on-site seminars. With the Class of 2004, there will be more than 80 students enrolled in the DScPT program.

The Transitional Doctor of Physical Therapy (TDPT) program also combines on-site and online learning for our MPT graduates. For more information about either the DScPT or the TDPT program, please visit our Web site at www.pt.umaryland.edu.

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Dear Friends,

Now that Fiscal Year 2004 has come to a close, I am pleased to report on the success of our fundraising efforts for the Department of Physical Therapy and Rehabilitation Science. Here are the highlights through June 30.

- Total Annual Fund income was \$45,627, slightly higher than last year (8 percent increase).
- Overall income received (including all corporate and individual gifts) was \$67,821, which represents a 60 percent increase from last year.
- Our FY04 grand fundraising total (including multi-year pledges and deferred gifts) is \$96,185, which is a 127 percent increase from last year.
- Several new initiatives were launched this year to assist the department in reaching its strategic goals. The following progress was made in two priority areas:

Corporate Underwriting

- Sponsorship proposals were submitted to more than 300 industry businesses.
- The department communicated with more than 100 physical therapy practices and staffing services interested in marketing their job opportunities to our alumni and students.
- \$5,075 was generated in new sponsorship dollars.

Scholarships

- Alumni and friends contributed \$12,119 through the Kendall Fund Appeal and other scholarship appeals.
- Twenty thousand dollars was committed toward student scholarships from multi-year pledges and deferred gifts through the 1956 Society.
- Through the success of our Annual Fund and the 1956 Society, we were able to endow the following scholarship and award funds: Brian Bainbridge Memorial, Pekar-Abell, Florence P. Kendall, Laura G. Levine-Mandell Memorial, and Elizabeth G. Macaulay Memorial.

I would like to take the opportunity to thank every contributor who helped to support the mission of the department this year. You have helped to make Fiscal Year 2004 a big success!

Sincerely,

Karen McGuire

Associate Director for Development

1956 Society

In recognition of the founding of the Department of PTRS in 1956, a gift club has been created for those donors giving \$5,000 or more through an annual gift, a multi-year pledge, or a deferred planned gift or bequest. We would like to thank the following new members of our 1956 Society: **Anonymous '78; George R. Hepburn, PT '74; Donald J. Hobart, PhD; Florence Kendall, PT, Honorary Doctorate '99; Ruth M. Latimer, PT '75; and Mary M. Rodgers, PT, PhD.**

Our goal is to increase membership in the 1956 Society from its current six members to 50 members by 2006. Thank you to those generous individuals who have set the pace for the rest of our alumni and friends through their pledges during Fiscal Year 2004.

Annual Fund 2005

Our new fiscal year has begun, and that means it's time to start thinking about a gift toward the 2005 Annual Fund. Our goal is to increase overall annual fund support by 10 percent this year.

You may have already received our fall letter asking for your support. We will be following up with phone calls to all of our alumni during our Phone-a-Thon in mid-November. In this issue of *Proficio*, an envelope is included, should you wish to send your contribution in early. You can also make your donation online at www.giving.umaryland.edu/Giveonline/index.htm. Be sure when filling in Step 2: Designation of Gift, to select the Department of Physical Therapy and Rehabilitation Science, School of Medicine.

Scholarship Funds

One of the department's primary initiatives is to continue to increase support of our scholarship funds. This is especially important if we are to position ourselves competitively in student recruitment with other PT programs across the country.

Scholarship funds can assist in attracting new students and recognizing those already enrolled in the PT program for outstanding academic and community contributions.

One of our goals is to be able to offer one or more full tuition scholarships to first-year students annually. You can help. Annual Fund gifts can be directed toward scholarship support. Here is a list of those endowed scholarships currently available for funding.

- **Brian Bainbridge Memorial** Established by Julia Bainbridge '80, and Joanna Blackburn '94, '03, in memory of Brian Bainbridge to support an annual scholarship award for first-year PTRS students
- **Donald J. Hobart Scholarship** Provides \$1,000 scholarships to outstanding students to assist with educational expenses
- **Florence P. Kendall Scholarship** Provides annual scholarship awards to incoming PT students
- **Laura G. Levine-Mandell Memorial** Established by Lawrence B. Levine, DDS, in memory of his daughter, Laura G. Levine-Mandell '72, to provide an annual award to a deserving third-year student
- **Elizabeth G. Macaulay Memorial** Established by Mr. and Mrs. William E. Rhoads to honor the memory of Elizabeth Macaulay to support an award to a graduating student who has demonstrated outstanding clinical proficiency
- **Pekar-Abell Pediatric Scholarship** Established by a former student to provide a scholarship award to a third-year student specializing in pediatric physical therapy

Corporate Sponsorship

"The partnership that was set up with the University in the past yielded quality resumes, and one of your new grad students was hired..." David Benzing, MPT, ATC'97, Maryland SportsCare & Rehab

Sponsorship is another priority development area for the Department of PTRS. We hope to expand our corporate and community support to \$10,000 in Fiscal Year 2005. Sponsorship is an inexpensive way to reach an audience of physical therapy professionals and graduating students. It is an excellent opportunity for businesses to market PT products and services or publicize employment opportunities.

Through partnership with the Department of PTRS, corporate sponsors will heighten their visibility, increase top-of-mind awareness, and become recognized as a business that values excellence in physical therapy education. In turn, sponsorship will help the Department of PTRS enhance its current academic programs and provide needed financial resources for scholarships, equipment, and technology.

There are a variety of sponsorship packages that incorporate multiple benefits, such as promotional space in publications like *Proficio*, job postings on the Web, exhibit space at special events, and discounts on continuing education programs. For more information, please visit our Web site at www.pt.umaryland.edu/givingopportunities.

If you know of a company that might be interested in sponsorship, contact Karen McGuire at 410-706-8688.

Planned Gifts Can Be Income-Producing Gifts

Did you know it is possible to generate financial rewards for yourself through giving? Learn how an income-producing gift to the University of Maryland School of Medicine can help the Department of PTRS and can help you to meet your own personal financial objectives by:

- Increasing current income of Certificates of Deposit and U.S. Treasury Notes
- Converting low-yield appreciated stock or real estate into a higher-income stream
- Reducing or eliminating capital gains taxes
- Producing significant federal income tax deductions
- Allowing you to experience the joy of making a legacy commitment to your alma mater

For more information about making a planned gift to support the University of Maryland School of Medicine, Department of PTRS, contact Karen McGuire at 410-706-8688.

REPORT OF GIFTS ANNUAL FUND DONATIONS FOR FISCAL YEAR 2004

**July 1, 2003
through June 30, 2004**

The symbol (◇) next to a donor's name indicates that the person or organization is a member of our Ironman Club, which was initiated to recognize those who have made a contribution each year for at least 3 consecutive years.

These donors understand that we count on their contributions every year to carry on the tradition of excellence at the department.

Because every donation matters to us, we make every effort to ensure the accuracy of the Honor Roll. The following list includes pledges and gifts made between July 1, 2003, and June 30, 2004.

If you believe an omission or error has been made, please accept our apology. You can contact Karen McGuire at 410-706-8688 if you have a question about your account. Thank you to all who made a donation this past year. Your contribution makes it possible to strengthen our department and improve the quality of education for future physical therapy students.

1956 Society (\$5,000+)

Anonymous '78 ◇
George R. Hepburn '74/
Dynosplint Systems Inc.
Donald J. Hobart ◇
Florence P. Kendall '99 ◇
Ruth M. Latimer '75 ◇
Mary M. Rodgers ◇

Golden Circle (\$2,500–\$4,999)

Mary Jo Culver/
Fidelity Investments
Charitable Gift Fund
Eugene F. Ford Jr. '93

Maryland PT Society (\$1,000–\$2,499)

Anonymous
Seema DeVasthali '80
and Shirish DeVasthali/
Cumberland Community
Foundation Inc.
Susan and Charles K. Nolte
Jane S. Satterfield '64/
Care Resources
Virginia Sawyer

Anniversary Club (\$500–\$999)

APTA of Maryland Inc.
Carolyn E. Chanoski '87
and Lynn M. Garrison ◇
Ann Copeland '78 and
James T. Copeland '78 ◇
Anthony Kling/ Potomac
Valley Sports Medicine
& Rehab
Karen McGuire
Donna Krin Korkes/
Med Art
Jean and Kent A. Peterson
Wendy and Ted Ramsey
George E. Ramsey IV
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Director's Message: Join the Team



Fall is traditionally the season for recruiting prospective DPT students here at the Department of Physical Therapy and Rehabilitation Science. Alumni can assist in our recruitment efforts by participating in the

Alumni Admission Team, a new program to involve our alumni in the student admission process.

As part of our Alumni Admission Team, you will interact with prospective students and answer their questions about careers in physical therapy and the physical therapy education available at the University of Maryland, Baltimore.

As an Alumni-Admission Team representative, you can:

- Include your workplace on a list of sites where applicants can perform the 100 PT volunteer work hours required for admission into the DPT program
- Attend a graduate school fair in your area and distribute application materials to prospective students
- Provide follow-up letters, e-mail messages, and phone calls to highly recruited students and encourage them to enroll at the University of Maryland, Baltimore

If you would like to be a member of the Alumni Admission Team, sign up on our Web site at www.pt.umaryland.edu. A link to the sign-up sheet is listed under "What's New."

All classes and all degrees are welcome to participate. I hope to hear from you soon.

Sincerely,

Angel Jackson
Director of Student Affairs

New Faculty and Staff



Vincent Conroy, PT

Vincent Conroy, PT '90, joined our faculty in April as an instructor. Conroy brings academic and clinical expertise in the areas of human anatomy, performing arts rehabilitation, and geriatric rehabilitation to the department. He is currently pursuing a post-professional doctoral degree within the department's DScPT program.

Conroy's 14 years of clinical experience have been primarily devoted to geriatric and performing arts rehabilitation in acute, sub-acute, and outpatient settings.

"I enjoy the teaching environment that is promoted by the department. It is a progressive environment that is supported well by excellent faculty and staff, a focused administration, and strong alumni," he says.

"This combination is attracting the best and brightest candidates, who ultimately will prove to be excellent leaders of our profession and will contribute to further success for the department and the community it serves. I am honored to be a part of that developing process."



Gregory Hicks, PT, PhD

Gregory Hicks, PT, PhD, joined our faculty in July, after completing postdoctoral research at the National Institute on Aging. Hicks' undergraduate and physical therapy degrees are from the University of Delaware, and his PhD in rehabilitation science is from the University of Pittsburgh.

For his dissertation, Hicks developed a preliminary clinical prediction rule to determine which patients with low-back pain are most likely to respond to a lumbar stabilization program. This prediction rule is currently being validated in a study funded by the Orthopedic Section of the APTA. During his recent postdoctoral experience, which focused on the epidemiology of aging, Hicks investigated the impact of back pain and trunk muscle composition on physical function in older adults.

Hicks will continue to expand his work in the area of spinal health in older adults. As a part of his continued affiliation with the National Institute on Aging, he will be a lead investigator on a study designed to determine the impact of dietary fat intake on inflammatory markers in older adults. Hicks will have a primary faculty appointment in the Department of PTRS and a secondary appointment in the Department of Epidemiology and Preventive Medicine.

**Susanne Morton, PT, PhD**

Susanne Morton, PT, PhD, joined the faculty in September 2003. Morton is a graduate of the University of Illinois at Urbana-Champaign, where she received her bachelor's degree in biology. She earned a master's in physical therapy and a Ph.D. in movement science from Washington University in St. Louis.

Her dissertation work dealt with the role of the cerebellum in the control and adaptation of human locomotion. She subsequently completed a postdoctoral fellowship at The Johns Hopkins University in the Department of Neurology. There, she examined specific cerebellar functions for the control of intralimb versus interlimb coordination during adaptation to a split belt treadmill.

At the Department of PTRS, Morton plans to continue her research in locomotor control. She will examine the role of another major supraspinal contributor to locomotion, the motor cortex, by studying individuals with post-stroke hemiparesis.

Morton's past teaching experiences include instruction to DPT students and medical students at Washington University in St. Louis and to neuroscience PhD students at The Johns Hopkins University. At the department, she teaches the neuroscience content in the DPT curriculum in Basic Science Block II and Neuromuscular Block I.

"I am very pleased to have joined the team at the University of Maryland, Baltimore. There are very few physical therapy programs with such close connections to a medical school," says Morton. "This, combined with the department's commitment to offering both clinical and research doctoral degrees, offers students, staff, and faculty unique opportunities for growth."

**Karen Sack, Administrator**

Karen Sack joined the department in June, having been with the University of Maryland, Baltimore, for 24 years.

Before joining PTRS, Sack had been the administrator in the School of Pharmacy for the previous 6 years. While there, she re-engineered the administrative infrastructure, increasing research and business services to faculty, staff, and students in the Department of Pharmaceutical Sciences. Sack has also served on school-wide and campus-wide standing committees and task forces related to administrative, financial, and policy issues.

Sack earned a Bachelor of Science in Business

Management from the University of Phoenix and brings a wealth of business management skills with her.

"I am looking forward to building on the financial systems of the department in order to enhance outcomes," she says.

**Frances T. Sheehan, PhD**

Frances T. Sheehan, PhD, joined the department in June 2003 as an assistant research professor and holds a joint position in the physical disabilities branch at the National Institutes of Health (NIH).

Sheehan's doctoral work, at the mechanical engineering department at Stanford University, focused on developing novel MRI techniques for the study of in vivo joint kinematics.

She has expanded this project to the Virtual Functional Anatomy (VFA) Initiative, funded by a National Science Foundation CAREER award. The overall goal of the VFA project is to greatly advance the clinical diagnosis and treatment of musculoskeletal impairments as they relate to joint function. The current focus is to develop and ultimately validate a combined set of tools (VFA) that will enable the accurate and precise measurement, analysis, and visualization of three-dimensional static and dynamic musculoskeletal anatomy (e.g., bone shape, skeletal kinematics, tendon and ligament strain, muscle force, and joint space) using completely non-invasive in vivo measurement tools.

Sheehan brings a wealth of research experience to the Department of PTRS. Her interdisciplinary research at NIH will contribute to the department's goal of providing evidence for physical therapy practice. Sheehan's work will also open up new research and educational opportunities for the students within the Department of PTRS.

"As an engineer, I'm looking forward to using my research to promote the understanding of the musculoskeletal system at the functional (impairment) level," she says. "Being part of the department will allow me to take this understanding and apply it clinically."

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A study funded by the National Institutes of Health

We have an opportunity for you and your child to participate in research supported by the National Institutes of Health and conducted at the University of Maryland, Baltimore (UMB), and the University of Maryland, College Park (UMCP).

The project studies children from 6 to 8 years of age who have difficulty with motor coordination, particularly those children with developmental coordination disorder (DCD). According to the American Psychiatric Association (APA), DCD is a childhood disorder characterized by lack of motor coordination necessary to perform age-appropriate tasks, given normal intellectual ability and the absence of other neurological disorders.

The APA estimates that children with DCD comprise up to 6 percent of the total population in elementary schools in the United States. These children are at risk for poor academic achievement, socio-emotional difficulties, and long-term health problems due to lack of participation in physical activities. The aim of our study is to understand the underlying mechanisms of DCD, with a long-term goal of developing more effective interventions for children with the disorder.

Who can participate?

- Children 6 to 8 years old who demonstrate difficulty with coordination, either fine motor (e.g., handwriting) or gross motor (e.g., ball skills or balance) are eligible.
- Children 6 to 8 years of age without motor coordination problems will also be needed to compare with children with motor coordination problems.

What are we studying?

We are studying how sensory information (vision, hearing, and touch) is used in movement. We examine whether children with motor coordination difficulties find it challenging to use and adapt to changing sensory information during movements.

Children will perform three simple tasks: a balance task (maintaining quiet standing), a drawing task (a computer game), and a finger tapping task. Tasks will be undertaken under a variety of sensory conditions involving visual, tactile, and auditory stimuli. All tasks are designed to be fun for the children.

Sensory information is changed while the child is performing the tasks so that the ability to adapt to the environment and condition can be observed. Researchers will also correlate laboratory data with evaluations from a pediatrician, physical and occupational therapists, and an education specialist. The evaluations will offer parents more information about their child's motor and cognitive abilities.

Where are we testing?

There are several sites for this study.

Clinical Evaluations and Finger Tapping Task

Allied Health Building, UMB campus, 410-706-4432

Balancing Task

Health and Human Performance Building, UMCP, 301-405-2574

Educational Evaluation and Drawing Task

Either UMB or UMCP, depending on schedule and preference

How long is the testing?

Testing is ongoing and the schedule is developed based on each participant's availability. The tests are conducted over three or four sessions. The average length of each test session is 2 to 3 hours. Because this is a longitudinal study, after 2 years, all testing will be repeated.

Your benefit

Children receive prizes and a small financial compensation for completing each task. Parents receive a complete cognitive, neurological, and motor assessment of their child. Parking at either university is complimentary.

Contact

If you are interested in participating in our study, please contact Tzu-Yun (Zee) Chang, study coordinator, at 410-706-4432 or tchang@som.umaryland.edu, or visit our Web site at www.hhp.umd.edu/KNES/faculty/jclark/research/Current DCD.htm.

Study Investigators

Jane Clark, PhD, Principal Investigator

Department Chair and Professor, Motor Development, Department of Kinesiology, UMCP
301-405-2450
jeclark@umd.edu

Jill Whitall, PhD, Co-Principal Investigator

Professor, Department of Physical Therapy and Rehabilitation Science, UMB
410-706-0764
jwhitall@som.umaryland.edu

Continuing Education

These courses meet the basic criteria of the Maryland State Board of Physical Therapy Examiners. Application has been made for CEUs. You will be issued a CEU certificate upon completion of the course. A record of CEUs earned will be retained by the sponsor.

The Department of Physical Therapy and Rehabilitation Science reserves the right to make changes to the content, time, and location up until the day of the seminar. For more details regarding the upcoming seminars, including tentative schedule and CEU confirmation, please visit our Web site at www.pt.umaryland.edu, or contact Alyssa Menkes by phone at 410-706-2299 or amenkes@som.umaryland.edu.

Biomechanical Evaluation and Treatment of the Cervical Spine and TMJ

Jim Meadows, BSc PT, MCPA, COMP, NAIOMT
December 10–12, 2004

Course Description This seminar will provide you with an evidence-based biomechanical approach to evaluation and treatment in the cervical spine and TMJ. Students will develop skills needed to accurately diagnose movement restrictions in the cervical spine and TMJ and provide treatment of those restrictions by manual techniques. The most appropriate steps to manage patients with cervical spine and TMJ dysfunctions by maximizing the effects of physical therapy intervention will be discussed, along with differential diagnosis, contraindications, and referral options.

Contact Hours: 22

Cost: \$550

Physical Therapists as Primary Care Practitioners

Robert E. DuVall, PT, DHSc, MMSc, OCS, FAAOMPT, MTC, PCC, CSCS
January 29–30, 2005

Course Description This seminar will introduce physical therapists to the latest delivery models of practice. The underlying rationale for recent and pending evolutionary changes affecting physical therapy regarding autonomous practice will be provided. The necessary philosophy for this expanded role as a primary contact practitioner and diagnostician along with practical marketing strategies required to promote this model of care will be discussed. The clinical competencies that define primary care physical therapy and how this knowledge and skills will help to provide health care consumers safe and effective management of neuromusculoskeletal impairments and functional limitations will be presented.

Contact Hours: 15

Cost: \$375

Biomechanical Evaluation and Treatment of the Upper Extremity

Jim Meadows, BSc PT, MCPA, COMP, NAIOMT
February 11–13, 2005

Course Description This course will provide clinicians with an evidence-based biomechanical approach to evaluation and treatment in the upper extremity. Participants will develop skills needed to accurately diagnose movement restrictions and provide treatment for those restrictions by manipulative techniques. In addition, we will discuss the most appropriate steps to manage patients with upper extremity dysfunctions to maximize the effects of physical therapy intervention.

Contact Hours: 20

Cost: \$500

Fundamentals of Orthopaedic Radiology

Lynn McKinnis, PT, OCS
March 5–6, 2005

Course Description This course will teach participants to understand the theory and technology of radiology. Participants will learn to distinguish normal and abnormal anatomy, definitive pathology, arthritic changes in vertebral joints, and common disease processes on x-ray film. Age-related changes in joints and bones from pediatric development to the elderly will be discussed. Participants will learn about fracture/dislocation terminology and classification, fracture healing, and remodeling. We will also discuss the differences of diagnostic capabilities of radiology, CT scan, MRI, and nuclear medicine tests.

Contact Hours: 13

Cost: \$325

Response Form

Completed registration forms with check (credit cards are no longer accepted), payable to the University of Maryland, Baltimore, should be sent to:

**University of Maryland School of Medicine
Department of PTRS
Attn: Continuing Education
100 Penn St., Suite 115
Baltimore, MD 21201**

Note: Registration deadline is 1 week prior to each seminar offering.

Name _____

Address _____

City _____ State _____ Zip _____

Telephone (Home) _____ (Work) _____

Fax _____

E-mail _____

Check All That Apply

- | | |
|--|--|
| <input type="checkbox"/> Biomechanical Evaluation and Treatment of the Cervical Spine and TMJ
<i>Jim Meadows, BSc PT, MCPA, COMP, NAIOMT</i>
December 10–12, 2004
22 Contact Hours
Cost: \$550 | <input type="checkbox"/> Biomechanical Evaluation and Treatment of the Upper Extremity
<i>Jim Meadows, BSc PT, MCPA, COMP, NAIOMT</i>
February 11–13, 2005
20 Contact Hours
Cost: \$500 |
| <input type="checkbox"/> Physical Therapists as Primary Care Practitioners
<i>Robert E. DuVall, PT, DHSc, MMSc, OCS, FAAOMPT, MTC, PCC, CSCS</i>
January 29–30, 2005
15 Contact Hours
Cost: \$375 | <input type="checkbox"/> Fundamentals of Orthopaedic Radiology
<i>Lynn McKinnis, PT, OCS</i>
March 5–6, 2005
13 Contact Hours
Cost: \$325 |

Location: All seminars will be held at the Allied Health Building, 100 Penn St., Baltimore, MD 21201, unless otherwise indicated in your confirmation packet.

Directions and parking information will be sent with confirmation and are also available on our Web site, www.pt.umaryland.edu.

Impaired Oxidative Capacity and Disabling Fatigue

What we're learning from studies on systemic lupus erythematosus and human immunodeficiency virus infection

BY RANDALL E. KEYSER, PHD, FACSM

Systemic lupus erythematosus, or lupus, is an autoimmune, collagen vascular disease that debilitates a substantial portion of women throughout the world. In the United States, the vast majority of these women are of African-American descent, with peak incidence and prevalence observed between the ages of 15 and 44 years.

The prognosis associated with lupus in general is improving due to increased understanding of the disease and its clinical course, improved evaluation methods, and advances in pharmacotherapy. Lupus potentially affects the tissue and vascular beds of nearly all tissues in the human body. The major disabling symptoms of lupus are myalgia; joint pain and swelling; and chronic, excessive fatigue. Fatigue that is associated with lupus, or lupus-fatigue, persists even when other symptoms do not occur and is listed among the top three debilitating symptoms in 80 percent of those who have the disease.

Thirty to 50 percent of those who have lupus identify fatigue as their single most disabling symptom. We have determined that impaired oxidative metabolism (often called aerobic metabolism) is a pathophysiological construct for lupus-fatigue. We have found that oxidative metabolism was insufficient for sustaining even low levels of physical activities, such as instrumental activities of daily living, without rapidly experiencing a state of exhaustion in women who had what seemed to be negligible to mild lupus severity. We also found that the degree of diminution in oxidative capacity was too low to be caused solely by a physically inactive lifestyle. Significant indices of this phenomenon and comparisons to healthy controls revealed that impaired oxidative metabolism was, at least in part, the result of disease processes associated with lupus.

In a subsequent study, we found that women who had lupus had more difficulty maintaining a steady state of oxidative metabolism during treadmill walking at energy demands encompassing the range required for

instrumental activities of daily living. Moreover, women with lupus could sustain even these low levels of activity for no more than 28 minutes without becoming exhausted, compared to healthy controls who sustained activity for at least an hour without reporting fatigue. Limitations imposed on oxidative metabolism may be related to decreased oxygen delivery by the cardiopulmonary system or attenuated oxygen extraction from the blood by the metabolically active tissues. Most recently, we have determined that impaired oxidative metabolism is the result of attenuated tissue oxygen extraction in women with lupus.

Further investigations of collagen vascular architecture, oxidative enzyme deficiency, and tissue oxygen diffusion are being planned to identify the oxygen extraction mechanisms that are affected by this disease. Understanding these mechanisms may be of paramount importance in developing medicines and therapeutic exercise regimens aimed at decreasing or eliminating disabling fatigue in those who have lupus. These treatments are crucial since curative treatment is not available for these individuals. Our studies have been and are currently supported by grants from the University Of Maryland School Of Medicine and the National Institutes of Health.

HIV-Fatigue

Spawned by our research paradigms related to studies on systemic lupus erythematosus and replication of our research design model in adolescents who were seropositive for the human immunodeficiency virus (HIV), a graduate student in our laboratory, W. Todd Cade, MS, PT, (now W. Todd Cade, PhD) was able to replicate many of the studies originally done in women with lupus in groups of adults who were infected with HIV.

In his preliminary work, Cade found that impaired oxidative capacity was a probable cause of HIV-fatigue

and that this impairment was the result of processes other than those associated with chronic physical inactivity. In his doctoral dissertation, Cade was able to demonstrate that oxidative metabolic capacity was limited, not by the HIV infection, but rather by the transfer RNA altering drugs that are necessary to control the rate at which the infection progresses. Conversely, he found that the inability of those infected with HIV to sustain a steady state of oxidative metabolism during physical activity was not related to the effects of these drugs but was the result of the infection itself.

Sustaining an Oxidative Steady State

One key topic in the projects encompassed by our research is the ability of those with various diseases to sustain an oxidative steady state. While some indices have been developed from studies of oxygen kinetics at the onset of a sustained bout of physical activity, this kinetics yet has aspects that need to be further conceptualized.

Doctoral candidate Sharmila Nabar, MPT, is in the

process of completing a dissertation on the mechanisms by which the level of oxygen actually consumed by an individual during physical activity matches the total energy demand. The magnitude of deficit between these two quantities results in supplementation of the total energy available for use by non-oxidative, or anaerobic, sources, which produces by-products that result in fatigue.

Nabar is also conducting experiments designed to determine what general mechanisms might be important in limiting oxygen on kinetics in patient populations who have abnormalities in this response. Her work is aimed at understanding oxidative function during sustained physical activity and perhaps will lay the groundwork for *general* therapeutic regimens designed to alleviate disability that is associated with the inability to sustain physical activity due to early and excessive fatigue and exhaustion. ■

Dr. Keyser is an associate professor in the Department of Physical Therapy and Rehabilitation Science.



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Donald E. Wilson, MD, MACP, vice president for Medical Affairs and dean (center); Bruce E. Jarrell, MD, senior associate dean for Academic Affairs; and Mary M. Rodgers, PT, PhD, professor and chair, attend the precommencement ceremony for the MPT Class of 2004.



The orthotics laboratory for second-year DPT students



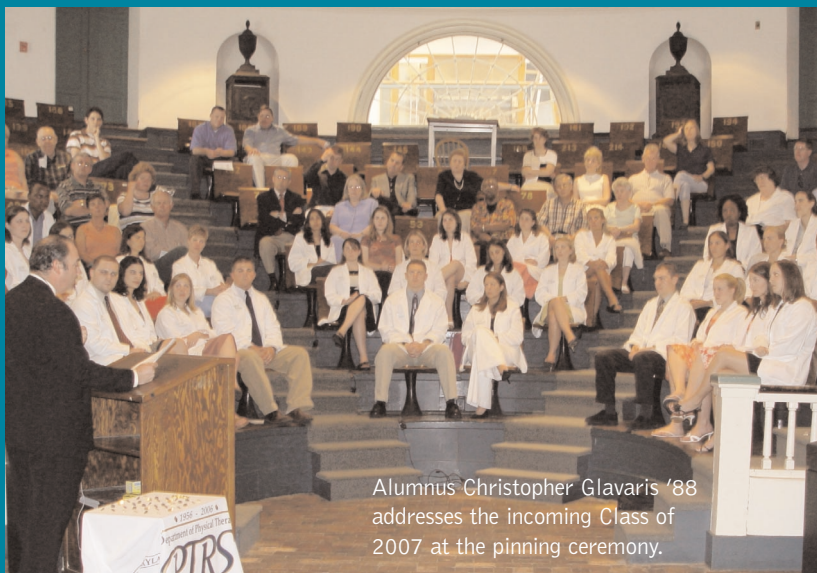
Bill Romani, PT, PhD, assistant professor, uses the distance learning facility for orthopaedic demonstrations.



Students learn about wound care products at the annual vendor fair.



As a joint venture between the Department of PTRS and the School of Nursing (SON), Kathy Schaivone, MPA, manager of the clinical education and evaluation laboratory at SON, speaks to students attending competency testing prior to beginning full-time affiliations.



Alumnus Christopher Glavaris '88 addresses the incoming Class of 2007 at the pinning ceremony.

May 2004 MPT Graduates

Employment opportunities for our graduating students were numerous and diverse. One week prior to graduation, 31 members of the final MPT class reported the following job-hunting experiences:

Participated in a PT job interview prior to graduation	28
Interviews conducted at (type of facility):	
Acute	13
Rehabilitation	7
Nursing Home	2
Private Practice	11
Outpatient Ortho	4
Offered a PT position prior to graduation	26
Accepted a PT position prior to graduation	20
Starting salary range	\$40,000-\$55,000

June 2004 DPT Applicants

We are pleased to announce that the profile of applicants enrolling in the DPT program was academically competitive and geographically diverse. The applicant pool included 152 students from 22 states. While most students had pursued an allied health or science-related undergraduate major (kinesiology, pre-pt, and biology), a significant number of students from other disciplines, and professionals changing careers, also applied for admission (business, education, psychology, and computer science majors and professionals).

Academic Profile for Enrolling Students: June 2004

Average Cumulative GPA (all undergraduate work)	3.46
Average Pre-requisite GPA (required courses)	3.52
Average Verbal GRE	460
Average Quantitative GRE	623

DPT Application Statistics

	2004	2003
Applied	151	100
States	24	11
International	3	4
Maryland	56%	69%
Out-of-State	43%	31%
Female	77%	78%
Male	23%	22%

Ethnicity	2004	2003
African-American	17%	17%
Asian	7%	5%
Caucasian	64%	65%
Hispanic	7%	2%
International	2%	4%
Native Hawaiian	7%	1%
No Response	9%	6%



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