A Bright Future
Dear Friends
and Colleagues

The education of medical students, graduate students and physicians in residency training is the Medical College of Wisconsin’s core mission. Since our school was founded in 1893, we have been teaching and training generations of physicians and scientists. Today, about one third of Wisconsin physicians are our alumni. Our Graduate School alumni include faculty at universities throughout Wisconsin and scientists at Wisconsin biotechnology companies.

We are committed to preparing great physicians and scientists. Our physician graduates must provide skilled and compassionate care for people. Our scientist graduates must lead the way in research to discoveries that will advance our capabilities to prevent and heal diseases.

Preparing great physicians and scientists begins with recruiting great students. In this report, we are proud to present a few of our students. As their stories show, students come here for nationally recognized faculty and research, and excellent training in state-of-the-art laboratories and our major teaching hospitals of Froedtert Hospital, Children’s Hospital of Wisconsin and the Zablocki VA Medical Center.

To attract great students and provide educational excellence, the need for scholarship and research support is great. Medical students incur substantial debt. The average level of indebtedness for our medical school graduates of 2007 was $142,000. Less than 1% of our medical students receive privately funded scholarships at the level of $10,000 or more to significantly offset high indebtedness. Research support is critical in providing outstanding experience for our PhD students, who assist faculty on research studies and receive a stipend from the Medical College.

The bright future for our students is a bright future for all of us, as they carry on the work of education, research and patient care. We deeply thank our donors whose support is critical to the success of our students, faculty and all our work.

Reaccreditation awarded
In 2007, the Medical College received the maximum 10-year reaccreditation from the Higher Learning Commission of the North Central Association of Colleges and Schools, covering all programs leading to the MD, PhD, MS, MA and MPH degrees. The report noted, “The Medical College of Wisconsin is to be commended for developing, achieving excellence, and maintaining the quality of education, research, and patient care.”
From Education to Career

In the following pages, we will lead you through the stages of medical school, graduate school, residency training and fellowships, as seen though the eyes of a few representative students. Their experiences show their commitment and dedication to the goal of serving people as physicians and biomedical scientists.

From Medical School to Physician

Medical School First and Second Years
- Science classes studying the human body (anatomy, biochemistry, microbiology, pathology, physiology, pharmacology, etc)
- Simulated patient interviewing & examination
- U.S. Medical Licensing Exam – Step 1 in second year

Third and Fourth Years
- Follow faculty physicians in teaching hospitals and clinics
- Fourth Year: U.S. Medical Licensing Exam – Step 2. Choose medical specialty, apply to residency training programs; national system matches students with residency program.

Earn Doctor of Medicine degree

Residency Training First, Second and Third Years
- Progressive responsibility for care of patients under supervision of faculty physicians
- After first year: U.S. Medical Licensing Exam – Step 3, apply for state license
- After third year: Residency completed for primary care specialties
- Some specialties require one to four more years of residency training.

After residency: Specialty Board examination for board certification

Fellowship Training (if desired)
- Subspecialties require 1 – 3 years of fellowship training.
- After fellowship: Subspecialty Board examination for board certification or certificate of special qualification.

Practice of Medicine
- Requirements for continuing medical education, board recertification and state licensing continue throughout career.

From Graduate School to Biomedical Scientist

Master’s Degree Programs
- The master’s degree programs are independent from the PhD programs. Thirty to 42 credits of coursework are required, up to 4 years, to earn a master’s degree (MA, MS, MPH).

PhD Degree Programs
PhD - First Year
- Core courses in basic sciences and perhaps in specialty area
- 10 – 12 week rotations in different laboratories to determine area of specialization and mentor, selected at year’s end.

PhD - Second Year
- Advanced course work in area of specialization. Work in mentor’s laboratory.
- Do thesis outline and planning under guidance of Thesis Committee.
- Prepare for and pass qualifying examination.

PhD - Third through Fifth Years
- Focus on thesis research, which must be original work.
- Attend national meetings to present results of developing research.
- Prepare and publish scholarly papers with thesis mentor.
- Finish thesis; present thesis defense to Thesis Committee; present public lecture.

Earn Doctor of Philosophy degree

Postdoctoral Fellowship
- Continued research training under supervision of a scientist mentor, usually 3 – 5 years. Continued original research, scholarly publishing and professional networking.

Biomedical Scientist Career paths
- Faculty appointment at medical school, graduate school or undergraduate institution; research in industry or government. Scientific discovery continues.
Medical School: Teaching tomorrow’s physicians

Medical College medical students are taught to master the foundation of the science and art of medicine. This includes knowledge of healthy and diseased states, the ability to apply problem-solving skills and use the best evidence-based information, and to practice compassionate and ethical care.

“Students benefit from the expertise of Medical College biomedical scientists and physicians, many of whom are nationally and world renowned in their fields,” said Kenneth Simons, MD, Senior Associate Dean for Academic Affairs, Professor of Ophthalmology and a Medical College Teaching Scholar. In recent years, more than two dozen faculty have received national and regional awards for teaching excellence. The College recognizes its outstanding faculty educators by membership in the Society of Teaching Scholars, whose mission is to stimulate innovation in medical education.

The College continues to invest significantly in high technology resources that are increasingly being used in medical education to allow students to learn with virtual experiences prior to real patient care.

The STAR (Standardized Teaching and Assessment Resource) Center is the College’s high-tech clinical training center. In 12 fully equipped exam rooms, students gain experience with standardized patients – people who are trained to portray medical conditions. This experience includes practicing compassionate care, such as listening to patients and using understandable terminology. Computer-driven simulators, which are adult and pediatric mannequins that respond physiologically like humans, allow students to practice procedures, such as intubation, IV hookup, drug administration and ultrasound procedures.

“The STAR Center is instrumental in preparing students for the U.S. Medical Licensing exams, which they are required to pass,” Dr. Simons said.

The first two years of medical school focus on the biomedical sciences. “We have a group of dedicated basic science faculty who place a high priority on educating medical students,” said Gary Kolesari, MD, PhD, Professor of Cell Biology, Neurobiology, and Anatomy, and Teaching Scholar. The clinical human anatomy course he directs aims to integrate basic science knowledge with clinical relevance, a hallmark of modern medical education. “Orthopaedic surgeons, for example, help teach the upper and lower extremity portions of the course and radiologists use medical imaging to help teach clinical anatomy,” he said.

The last two years of medical school emphasize bedside and clinic instruction. More than 900 faculty physicians see patients from a large metropolitan population and students benefit from a broad range of substantial patient care exposure. In addition, more than 1,300 community physicians volunteer significant education for students in urban and rural clinics.

The College has outstanding major teaching hospitals in Froedtert Hospital and Children’s Hospital of Wisconsin on the Milwaukee Regional Medical Center campus and the Zablocki VA Medical Center nearby.

The College was among the first medical schools in the U.S. to require third-year students to use handheld computers, known as PDAs (Personal Digital Assistants) in patient care use, a lifelong skill they will need to apply current best evidence. The PDAs access resources, such as drug databases, diagnostic tools and preventive medicine recommendations.

Students are being prepared for the booming aging group. “The College has become a national leader in incorporating new, innovative training in geriatrics in all four years of medical school and in residency training,” said Edmund Duthie, MD, Professor of Medicine, Chief of Geriatrics / Gerontology and a Teaching Scholar. A geriatrics education award from the Donald W. Reynolds Foundation was a catalyst for the College’s geriatrics education programs.

See more info at www.mcw.edu/07annualreportmed

Medical School at a glance

795 medical students

409 men, 386 women, 77 from under-represented populations (African American, Hispanic, Native American)

44% from Wisconsin, 55% from 26 other states, <1% from outside the U.S.

200 graduates per year (approximate)
Natalie Yapo’s desire to be a physician began when she was seven years old. That’s when an ear, nose and throat physician turned Natalie’s life around by performing surgery to restore her 80 percent hearing loss. Her experience left her in awe of the profound effect that doctors have on people’s lives. From that moment on, she emulated every physician she ever met.

Armed with years of ambition and motivation, Natalie came to the Medical College of Wisconsin straight from her undergraduate studies at Butler University in Indianapolis, where she majored in biology and minored in French.

Now in her second year of medical school, she has set her goal on being a physician who helps medically underserved communities—places where health care is often neglected in people’s lives. With a father from Ivory Coast and a mother from Haiti, Natalie is familiar with the effects of poverty on health care. A native of Waukegan, Ill., she is even more saddened when she sees similar hardships in her own country.

Natalie is considering gynecology and obstetrics as her career choice. She is also drawn to internal or family medicine, thinking that she might impact a larger number of people. As a second year medical student, she has time to decide.

“I really like the mentor program at the Medical College. It’s nice to be able to relate what I’m learning on campus to the outside world. To me, that’s when the information really sticks.”

In her first year, the clinical mentor program paired Natalie with Mark Meier, MD, a family medicine physician in New Berlin. Once a month, she visited Dr. Meier’s office and was able to practice patient interviewing skills and listen to heart and lung sounds. It was her first opportunity to put herself in the role of a physician with real patients.
Rising to the challenge

Jill Hammersley has not decided what field of medicine to practice, but she has no doubt about the type of doctor she wants to be. She is a strong proponent of evidence-based medicine, which challenges medicine’s conventional wisdom to determine what is most successful in improving a patient’s health.

“For example, we know in theory how aspirin could prevent a heart attack, but does it actually work? Is a daily dose worth the risks? Could I feel good recommending that to my patients? My dream is to someday contribute to this research myself.”

During her college years at the University of Wisconsin-Madison, Jill was a Certified Nursing Assistant in addition to majoring in biochemistry. The New Berlin native originally thought medical school was out of her reach, but working at a nursing home and a hospital provided her the opportunity to reevaluate her options.

“I loved working so closely with patients, but I knew I needed a career that would be more challenging and give me more responsibility.”

Currently in her third year of medical school, Jill cites the Medical College faculty as key to helping her reach her goals as a physician.

“At the Medical College, they push hard for us to not just memorize facts, but to learn to think critically. For example, during my family practice rotation, I am taught to constantly ask myself: Why am I ordering this test? How will it improve my patient’s life? Is there a less expensive but equally good alternative test?”

Jill enjoyed her family medicine rotation, but also can’t wait to experience other rotations to help her decide which specialty she would enjoy most as a practicing physician.
Ready for radiology training

In his final year of medical school, Jon Loo plans to specialize in diagnostic radiology. He sees this specialty as a way to influence the care of dozens of patients on a daily basis.

"Considering the fact that a patient’s management relies heavily upon the reading of their image study, it is imperative for the radiologist to make the correct diagnosis to result in proper treatment. I love the responsibility of having to make the right decision. I enjoy that pressure."

Jon is inspired by his mother who quit a steady teaching job to start a clothing design business in Los Angeles, where he was raised. He learned from her that risks are worth taking in pursuit of a career you love.

Jon’s choice to study medicine coincided with his immense interest in the anatomy and pathology of the human body and his desire to help people. He graduated from the University of California - Los Angeles with a major in psychobiology.

In radiology, Jon looks forward to collaborating with physicians from many specialties and to applying his knowledge of the basic sciences, such as physiology and pathology, to make a difference for patients.

"My training at the Medical College was exceptional, especially in the hospitals. I feel that I will be more than adequately prepared as an intern. Dr. Carrera [Guillermo Carrera, MD, Professor of Radiology] was an amazing resource. He helped me get a better understanding of the field of radiology as a whole and what my life would be like in it. He helped me with the application process for residency. What I love most about the Medical College is that I truly feel that they believe in me and will support me in whatever I do."
Derrick Siebert of Wausau is looking ahead to where he might practice medicine, now that he is in his last year of medical school. “I was born and raised in Wisconsin and would like to remain in the Midwest. I feel that I can return a lot to this area as a physician and anticipate that I will be able to positively impact many people’s lives.”

Throughout his academic career, Derrick has sought out scientific and medical experiences. While earning two degrees, one in chemistry and one in biology, at Michigan Technological University, he specifically pursued projects that enabled him to work in a lab. He was involved in a three-year research project in physical chemistry, as well as a two-year project in biochemistry. He also worked as a research and development chemist at a chemical company.

Originally envisioning himself a chemist, Derrick often found himself thinking of the long term results and purpose of research. During his junior year of college, he had the opportunity to shadow working physicians. The experience proved influential. “I was enthused to spend time in the hospital, and found I could apply knowledge in the clinic in a similar manner to applying knowledge in the lab.”

His ambition for knowledge carried into medical school as he participated in a Medical College summer research program after his first year.

“My first impression of the Medical College during my interview was one of enthusiastic students and faculty who were happy to be at the College and who were always willing to help others. Throughout my years here, I have continued to find that the professors and administration will go out of their way to make themselves available to students.”
Battling disease on two fronts

By the time her education is complete, Melissa Wagner Schuman of New Berlin will be as comfortable in a clinic as she is in a laboratory. Within the next five years, the Milwaukee School of Engineering grad will receive an MD and PhD through the College’s Medical Scientist Training Program.

“Physician scientists have the unique opportunity to see patients with the disorders they are researching. This helps the research stay focused on the ultimate goal of illuminating unknown areas of human biology that will help us improve the lives of patients. I hope I am able to have an integrated career where I can use my experience in the clinic to aid in the design and goals of a research laboratory.”

In a biophysics lab, under the direction of Kathleen Schmainda, PhD, Associate Professor of Radiology, Melissa currently is researching characteristics of cancer treatment strategies that use magnetic resonance imaging as a guide for treatment planning. Her findings will contribute to the development of better cancer treatments with fewer side effects.

“The collaborative spirit within the institution has allowed me to work with scientists in other departments as well as work with clinicians who aid in translating our research to the bedside.”

Medical Scientist Training Program:

Physician-scientists earn MD, PhD degrees

The Medical Scientist Training Program enables students to earn both an MD and a PhD degree in seven to eight years. The program prepares students to be physician-scientists who can care for patients and conduct research.

There is a national shortage of physician-scientists. In addition, the national emphasis on translational research underscores the need for physicians with experience in biomedical research who can facilitate the transfer of laboratory discoveries to patient care.

Medical Scientist Training Program
The program accepts four students each year.

Joseph Barbieri, PhD, is Director of the Medical Scientist Training Program, and Professor of Microbiology and Molecular Genetics.
Preparing for a life of discovery

The Graduate School of Biomedical Sciences prepares students for a life of research and discovery as biomedical scientists. The knowledge they develop throughout their careers will contribute to new ways to prevent, diagnose and treat diseases.

**PhD Degree Programs**

“The major strength of the Graduate School is the faculty’s commitment to high quality classroom teaching and state-of-the-art, internationally acclaimed research,” said Hubert Forster, PhD, Professor of Physiology, and a College Teaching Scholar.

“Classroom teaching is primarily in small groups and research is conducted one-on-one collaboratively between students and their primary and secondary advisors; thus students have optimum interaction with faculty in a friendly, collegial, and intellectually stimulating environment,” he said.

Most Medical College PhD graduates head to postdoctoral fellowships. “Graduates of our PhD program are highly sought after as postdoctoral fellows,” said Owen Griffith, PhD, Dean of the Graduate School of Biomedical Sciences and Professor of Biochemistry.

“A majority of them continue their training at prestigious institutions including Harvard, Johns Hopkins, Yale, and the National Institutes of Health.”

After postdoctoral training, options include research at an academic institution, in industry, such as pharmaceutical companies, or with a government agency.

Programs are offered to help ensure a good fit between PhD student, mentor and research area. The Neurosciences Program, for example, “attracts students interested in the brain, but they may not have identified a specific research area,” said Cecilia Hillard, PhD, Neurosciences Program Director, Professor of Pharmacology and Toxicology, and a Teaching Scholar. “In the first year, we allow them to rotate among several neuroscience labs where students carry out a project and get to know the mentor-style of the faculty. At year’s end, the student can confidently choose their mentor and research area.”

PhD programs are offered in: biophysics; biochemistry; biostatistics; cell biology, neurobiology and anatomy; microbiology and molecular genetics; pharmacology and toxicology; and physiology, and a joint PhD with Marquette University in functional imaging.

**Master’s Degree Programs**

Many Medical College master’s degree students are working professionals who need more knowledge to expand their work or advance in their careers.

The master’s programs in epidemiology and bioethics, which are highly relevant to the practice of medicine, are nationally known for providing excellent training. The master’s in public health program provides an online curriculum in occupational medicine.

The Medical College collaborates with Marquette University and the Milwaukee School of Engineering (MSOE) to offer joint degree programs that provide advanced education in areas critical to the economic development of Southeastern Wisconsin. Many graduates find employment locally, including on the Medical College campus. The College and Marquette jointly offer master’s degrees in bioinformatics, and healthcare technologies management. The College and MSOE jointly offer an MS in medical informatics.

**Preparation for the future**

“The Graduate School is unusual in employing a career counselor to advise students and postdoctoral fellows about career options, conduct mock interviews, help them prepare for their next position and refine presentation skills,” Dr. Griffith said. Other services include an online career center, an annual career symposium, and a series on career planning.

The College’s Summer Program for Undergraduate Research offers undergraduate students an opportunity to participate in research in the laboratory of a College faculty member, and has become an important recruitment tool for the Graduate School.

See more info at [www.mcw.edu/07annualreportgrad](http://www.mcw.edu/07annualreportgrad)
Completing a Master’s degree in epidemiology from the Medical College will give Andrew Petroll, MD, practical tools he can use to improve HIV prevention and treatment. A practicing physician at the Froedtert & the Medical College of Wisconsin Infectious Disease Clinic and volunteer medical director at the Brady East STD Clinic in downtown Milwaukee, Dr. Petroll is also an Instructor of Medicine (Infectious Diseases).

“This Master’s degree helps develop skills that can be important for physicians but are not necessarily emphasized in medical training. This includes the ability to critically evaluate research articles for their validity and to judge what the impact of an intervention would be on the population as a whole.”

Epidemiology seeks to determine the factors that promote health and reduce incidence of diseases in different populations. Dr. Petroll is applying this study to HIV, a field to which he was drawn after having friends affected by the disease. Simultaneously, he is completing a National Research Service Award Postdoctoral Fellowship in HIV Prevention, which is awarded by the National Institute of Mental Health.

Dr. Petroll’s advisory committee consists of primary advisor Steven Pinkerton, PhD, Professor; Timothy McAuliffe, PhD, Professor; and David Seal, PhD, Associate Professor of Psychiatry and Behavioral Medicine at the College’s Center for AIDS Intervention Research (CAIR). Dr. Petroll’s research will help tailor HIV testing to increase the number of people who benefit from improved HIV treatments, as well as reduce the number of unknown HIV transmissions.

“When many faculty at CAIR are nationally and internationally respected experts, they are quite willing to invest time in helping me develop my own career.”

The College also offers master’s degree programs in bioethics and public health.
Expediting discovery to patient care

Working in the supercomputer industry and now at GE Healthcare for more than 20 years, Scott Bolte wanted to accomplish more to help patients. He embarked on a master’s degree in bioinformatics, a joint program between the Medical College and Marquette University. There are few programs like it in the United States.

“My master’s degree work has already allowed me to create a new role at GE Healthcare. I am the Clinical Genomics Leader. I work with GE people, clinical practitioners and medical researchers to identify short-term and long-term opportunities for incorporating genomic information into clinical care.”

Scott’s College advisor is Simon Twigger, PhD, Assistant Professor of Physiology. His Marquette advisor is Craig Struble, PhD, Assistant Professor of Mathematics, Statistics and Computer Science.

The College and Marquette also jointly offer an MS in healthcare technologies management and a PhD in functional imaging. The College and the Milwaukee School of Engineering jointly offer an MS in medical informatics.

“At GE, I was feeling too far from the aspect I value most: helping our customers help their customer, the patients. My goal is to reduce the time it takes to translate new genomic research findings into clinical practice, thereby improving patient outcomes.”

Bioinformatics combines math and other disciplines, such as statistics, computer science, physiology and biochemistry, to manage and analyze large databases to solve biomedical and genetic problems.

Scott’s bioinformatics research involves identifying a molecule of DNA associated with Type-1 diabetes. The information may help identify who is predisposed to develop the disease, predict how quickly the disease will progress and identify which treatments are most appropriate for a single individual.
Stephanie Cossette credits an enthusiastic college biology instructor with inspiring her to pursue developmental biology research.

“I was also always drawn to the subject because my mother was born with a congenital heart defect. By studying developmental biology I hoped to develop an insight into ways to help treat individuals affected by congenital defects.”

Since her undergraduate days majoring in genetics at the University of Ontario, her thirst for biomedical research has expanded. She earned a master’s degree in physiology from the University of Western Ontario. Now she is in her third year working toward a PhD in biochemistry at the Medical College.

Throughout, her interest in cardiovascular research never waned. Under the direction of her faculty mentor, Ravi Misra, PhD, Professor of Biochemistry, Stephanie is studying the potential of stem cells to regenerate damaged heart tissue, using the mouse as a research model. The goal is to ultimately translate results into treatments for people with heart defects and diseases.

“I really love this research because I can see the benefit to human health. I have always wanted to help people, to make a difference in the world.”

“I chose the Medical College of Wisconsin because I was very impressed with the quality of medically relevant research being conducted here.

“I especially like the collaborative atmosphere here. I don’t feel like I am only a student in the Department of Biochemistry. I actually feel like I am a student at the Medical College because most of the departments feel well connected to one another. This is the first time I’ve been at an institution where I am not afraid to ask any faculty member a question.”
As he nears the completion of his PhD, Mike Wendt of Jackson shares the dream of most every biomedical researcher – that his work will someday improve patient outcomes. His focus on translational research in cancer will help ensure that laboratory findings result in better clinical diagnostics and therapeutics.

Following undergraduate studies at St. Norbert College in DePere, Mike entered the Interdisciplinary Program in the Medical College’s Graduate School of Biomedical Sciences. Mike spent his first year exploring his research interests and preparing for advanced study in one of the College’s five biomedical science PhD programs. He chose Microbiology and Molecular Genetics.

Under the direction of his faculty mentor, Michael Dwinell, PhD, Associate Professor of Microbiology and Molecular Genetics and member of the College’s Cancer Center, Mike is researching how cancer cells travel through the body during metastasis, the most lethal aspect of cancer. The goal is to develop tools that can accurately detect cancer progression as well as methods to stop cancer from spreading.

“My work is in a very exciting, fast paced area of biomedical research. Through the use of new technologies and approaching the question in unique ways, we are beginning to understand how cancer cells acquire this unique ability to transit the body.”

In his final year, Mike is looking ahead to postdoctoral research on his way to an academic research career.

“The Medical College of Wisconsin is becoming known as one of the top research facilities in the country. My experience here afforded multiple postdoctoral opportunities as well as a strong record of publication. Having been interviewed at some of the best research institutions in the country and presented my work at international scientific and medical conferences, I can definitely say the Medical College lacks only what you don’t pursue as a graduate student.”
Postdoctoral fellowships:

Providing specialized training for researchers

Postdoctoral fellowships provide extended research training under the supervision of a mentor for recent graduates with a PhD or MD degree. In most biomedical fields, a postdoctoral fellowship is essential to qualify for a permanent position in academia, industry or government.

The Scientist magazine has ranked the Medical College in the top 10 of U.S. academic institutions for postdoctoral training for four of the last five years. Postdoctoral fellows receive high quality scientific training from outstanding College faculty, coupled with career development activities.

Office of Postdoctoral Education
(part of the Graduate School of Biomedical Sciences)
200 Postdoctoral Fellows

Philip Clifford, PhD, is Associate Dean for Postdoctoral Education, and Professor of Anesthesiology.

At forefront of physiology

The Department of Physiology’s renowned reputation is what attracted Jan Williams, PhD, to the Medical College. Dr. Williams is a postdoctoral fellow in physiology, pursuing research in kidney disease induced by high blood pressure.

“My mentor, Dr. Richard Roman, is a well known and established investigator in this research area. The physiology department at MCW is one of the world’s most productive departments and has always been ahead of everybody else,” Dr. Williams said. Dr. Roman is Professor of Physiology and Director of the College’s Kidney Disease Center.

Among his accomplishments at the College, Dr. Williams has published two first-author manuscripts and has been awarded two research grants – one from the UNCF (United Negro College Fund)-Merck Science Initiative and the other from the National Institutes of Health.

“I believe that any drug or mechanism of action has to be related to physiology. To benefit patients, we need to understand the physiology of drugs.” Dr. Williams earned his PhD in physiology, focusing on high blood pressure research, from the Medical College of Georgia. He grew up in Ashburn, a small agricultural town in south Georgia.
Jose Urquidez, MD, is drawn to the diversity and flexibility of physical medicine and rehabilitation (PM&R). “I can choose to practice inpatient or outpatient or a combination of both. I can subspecialize or be more generalized. Equally important is the ability to spend time with my family. PM&R offers a unique balance that appeals to me.”

Physical medicine and rehabilitation focuses on restoring function to people with temporary or permanent impairments. The specialty involves directing the rehabilitation of people recovering from conditions such as spinal cord injuries, brain injuries, stroke, and cancer.

In his final year of residency training, Dr. Urquidez has decided to pursue further fellowship training in neuromuscular medicine. “There are only a handful of institutions that have such a fellowship, and MCW is one of them.”

Dr. Urquidez attended medical school at the University of Texas – Southwestern. A physician with whom he worked in Texas had trained under Timothy Dillingham, MD, who is now Professor and Chairman of PM&R at the Medical College. The physician strongly encouraged Dr. Urquidez to pursue residency training with Dr. Dillingham. “He told me I would be a fool not to train here, and so here I am.”

At the Medical College, Dr. Urquidez’s clinical mentor is David Del Toro, MD, and his research mentor is John McGuire, MD, both Associate Professors of Physical Medicine and Rehabilitation.

Growing up in Texas, “I would assist my mother at the clinic where she worked as a nurse. This fueled my innate interest in medicine. As time passed, that intrigue has been supplanted by the power to heal. My goal as a physician is to help people be healthier and happier.”
Caring at high levels

Following residency training in internal medicine, Valerie Bonne, MD, recently completed three years of fellowship training in pulmonary medicine. Dr. Bonne now sees her own patients as Assistant Professor of Medicine (Pulmonary and Critical Care Medicine) at the Medical College.

“In terms of critical care, I want to be able to help patients and family members get through, both physically and emotionally, what most would classify as the worst days of their lives. Part of doing this is developing a bond with them, and I believe compassion, honesty and understanding is very important in this process.”

Dr. Bonne has a specific interest in obstructive lung diseases such as asthma and chronic obstructive pulmonary disease. She feels comfortable in the intensive care unit and treating pulmonary patients. It is a field she encountered regularly while growing up in Wisconsin and going on house calls with her mother, a physician specializing in pulmonary medicine.

“The faculty in Pulmonary and Critical Care are incredible people who place an emphasis on education and availability for their trainees. The patient population at Froedert Hospital provided a great learning opportunity as Froedert is a trauma facility and a major referral facility.”

Residency & clinical fellowships:

Training physicians for medical practice

Following graduation from medical school, residency training is required. At the Medical College, there are 644 physicians in 25 residency training programs and 175 physicians in 77 fellowship training programs representing all specialties and subspecialties of medical fields. Fellowships are available upon completion of residency training. All residents and fellows receive comprehensive experience under the supervision of faculty physicians that prepares them for board certification in the specialty or subspecialty of their choice.

Residency & Fellowship programs
644 residents and 175 fellows
462 men, 357 women
23% from WI, 53% from out of state,
24% from outside the U.S.
199 graduates per year (average)

Mahendr Kochar, MD, MBA, is Senior Associate Dean for Graduate Medical Education and Professor of Medicine.
Learning lessons for life

Before enrolling at Yale University, Finnoh Bangura of Milwaukee completed a six-week program at the Medical College of Wisconsin that provides an in-depth look at career opportunities in medicine. The Apprenticeship in Medicine (AIM) features a variety of hands-on clinical experiences and is one of several programs the College offers for high school students with diverse backgrounds.

“I was very interested in a career in medicine for the longest time. AIM helped show me that the challenge of becoming a doctor was not out of my reach. This was one of the reasons I was able to explore many different outlets to finding what I truly want to do for the rest of my life. One of the most important things I learned from AIM was that if you are going to have a successful career in medicine, or any other field for that matter, you need to enjoy what you are doing enough to be able to sacrifice for it.”

Now a senior, Finnoh has been a DJ on his college radio station for two years. He is also on the executive board for Yale Broadcasting Company. Recently, he started working as a college marketing representative for Warner/Elektra/Atlantic Music Group. Long-term, he would like to be a music producer and own his own production/song-writing company. Short-term, he hopes to work in radio as an on-air DJ as well as buy and sell real estate.

Program spurs career goals

Kristen Aicher of Richfield discovered her passion for biomedical science when she participated in the Summer Program for Undergraduate Research (SPUR) at the Medical College. The program works with colleges and universities in Wisconsin as well as out of state to encourage students to choose careers in the biomedical sciences. Students participate in significant research at the Medical College.

Kristen’s 2006 SPUR experience was in the lab of Michael Dwinell, PhD, Associate Professor of Microbiology and Molecular Genetics, on research related to inflammatory bowel diseases. Her 2007 experience was in the lab of Carol Williams, PhD, Associate Professor of Pharmacology and Toxicology, on research related to lung cancer.

Now Kristen’s career goal is to be a biomedical researcher and university professor. When she graduates from Carroll College next spring, the Medical College of Wisconsin is her first choice for graduate school.

“My SPUR experience was such a great opportunity. I got to see how my principal investigators and other faculty interacted with their graduate students, and I was very impressed with their relationships. Both principal investigators I worked under were very supportive and their passion for their research was evident.”

Kristen’s participation in SPUR was supported by Sigma-Aldrich.
Ophthalmologist Judy Suson Hoggatt, MD, is in private practice in the Milwaukee area. She keeps abreast of advances in vision treatments through Medical College of Wisconsin Continuing Medical Education (CME) activities. In particular, she likes attending the Mid-Winter Retina Symposium. “The people who coordinate this conference pick relevant topics and invite nationally recognized speakers. The topics may pertain to diseases I treat or to diseases that require referral to a subspecialist.”

Through the College’s CME, Dr. Hoggatt has learned about the proper timing and urgency of making patient referrals. “It is very important to know when and why to refer to a subspecialist, like a retina specialist. If I am on board with what the retina specialist is doing, it gives my patients peace of mind. I can aid in the process of patient education and ensure my patients receive better treatment.”

Dr. Hoggatt appreciates the caliber of the speakers and the learning environment of Medical College-sponsored education. “The conferences are intimate enough that I can ask questions of the lecturers. The speakers do a good job of presenting what is on the cutting edge and things that are relevant to most physicians’ practices.”

The College offers about 180 CME activities a year with more than 13,000 attendees, including physicians and other health professionals.

A firefighter/paramedic for the Oak Creek Fire Department, Peter Olson is a 2007 graduate of the Milwaukee County Emergency Medical Services’ paramedic training program.

Medical direction of Milwaukee County’s Emergency Medical Services (EMS) is provided by the Medical College’s Department of Emergency Medicine and includes responsibility for paramedic training and 24-hour physician consultation for paramedics on duty.

College emergency medicine physicians participate in direct teaching of paramedic students through lectures and during the student’s clinical training time in the emergency departments of Froedtert Hospital and Children’s Hospital of Wisconsin.

“One of the most valuable things provided to the paramedic students is knowing that the physicians and staff are interested in our success,” Peter said. “Our medical directors spoke to us personally a number of times. They weren’t the ‘man behind the curtain’ type of medical directors.”

Peter credits his clinical training time with developing the skills and confidence necessary to providing proper patient care. “Knowing your job and doing it well can make all the difference on a tough run.”

Medical College emergency medicine physicians are recognized as world leaders in pre-hospital research and discoveries, such as in cardiopulmonary resuscitation, and paramedics benefit from this expertise.
Established in 2004, Advancing a Healthier Wisconsin is an endowment of the Medical College of Wisconsin committed to improving the health of Wisconsin residents. Advancing a Healthier Wisconsin awards funding and supports community-academic partnerships through its three complementary funding programs:

- **Research for a Healthier Tomorrow** supports both basic and clinical research initiatives in such fields as cardiovascular disease, cancer, neuroscience, genetics and population health.

- **Educational Leadership for the Health of the Public** supports programs in healthcare education for both providers and consumers.

- The **Healthier Wisconsin Partnership Program** supports community-academic partnerships that address public and community health improvement.

Cheryl A. Maurana, PhD, Senior Associate Dean for Public and Community Health and Professor of Population Health, provides overall leadership for the College’s community health initiatives.

Two distinct research projects with common collaborators and technology have received funding from Research for a Healthier Tomorrow to improve treatments for brain cancer patients.

Kathleen Schmainda, PhD, Associate Professor of Radiology, leads a project to increase the life span of patients with brain tumors through the development of a special imaging platform. A prototype tool has been created that can correlate parameters such as speech or movement in relation to the radiation treatment field or surgical resection area, providing important new information to guide the treatment of brain tumors. This work may also enable the creation of similar imaging platforms for other diseases, such as stroke.

X. Allen Li, PhD, Professor of Radiation Oncology, is using magnetic resonance imaging (MRI) in the radiation treatment planning process to more precisely define tumor location and calculate radiation therapy dose so as to spare critical brain function. The project has potential to better control brain tumors while shielding healthy tissue from the toxic effects of radiation treatment. This could improve the current standard of care for brain cancer therapy.

A new Graduate School program at the Medical College is being developed and piloted to emphasize translational research in graduate student education through the creation of a collaborative learning environment. Supported by Educational Leadership for the Health of the Public funds, Sally Twining, PhD, Professor of Biochemistry and of Ophthalmology, and Karen Marcdante, MD, Professor and Vice Chair for Education of Pediatrics, are leading the implementation of the Community of Scientific Innovators (COSI) graduate program.

COSI is designed to develop among students the competencies needed to address pressing medical problems and to encourage successful innovation in translational research. It builds on several existing doctoral degree programs by integrating curricular experiences with a clinical focus, like those common to medical students. Through discussions, seminars, clinical encounters and research projects centered on patient care, these graduate students gain a better understanding of the challenges faced by practicing physicians. As a result, the program gives participants insight into the purpose of translational research, which is to advance new treatments and diagnostic tools from the laboratory to the bedside.
Roger Volland of Greenfield has his blood pressure checked by Kristyn Ertl, a research associate working with Dr. Jeff Whittle on a community-academic partnership between the Medical College and the Veterans of Foreign Wars. As the project peer leader for VFW Post 10519 in Greendale, Volland has been trained by Dr. Whittle’s team to help post members monitor their blood pressure and learn about hypertension management.

VFW partnership targets blood pressure

Through a partnership with the Medical College of Wisconsin, a number of Veterans of Foreign Wars (VFW) posts are applying their leadership skills to an intervention to improve members’ health. The project aims to empower post members to lower their blood pressure through support from their peers. If proven effective, the intervention, funded by the College’s Healthier Wisconsin Partnership Program, could also contribute strategies for bettering the health of others.

Hypertension, or high blood pressure, is a major cause of death and disability, particularly in the elderly. Heart disease is the No. 1 cause of death in Wisconsin. Research suggests that a population-wide reduction in blood pressure by 12-13 points could reduce heart attacks by 21%, strokes by 37% and all deaths from cardiovascular disease by 25%.

Jeff Whittle, MD, MPH, Associate Professor of Internal Medicine, is based at the Clement J. Zablocki VA Medical Center and leads the Medical College team conducting the intervention and related study. From among post membership, one or two peer leaders are selected to conduct support sessions that are integrated into the posts’ regular meetings. These sessions include blood pressure monitoring and advice for healthy living while emphasizing the importance of self-management for a chronic disease like hypertension.

Peer leaders receive ongoing training from Dr. Whittle’s team on blood pressure regulation and encouraging fellow post members to take an active role in their personal health and health care. To date, there are 15 active VFW posts in the program with about 300 people exposed to the intervention through the peer-led sessions on hypertension control. Of those post members, about 150 are enrolled in the study portion of the program, which seeks to measure and delineate the effectiveness of the effort.

“We have had a positive experience so far, and the enthusiasm of the VFW peer leaders and organizational leaders indicates the veteran community is very supportive of research,” Dr. Whittle said. “Through this work, the quality of future interventions will be much improved.”

The experience has already laid the groundwork for a VA-funded, randomized intervention Dr. Whittle expects to begin shortly. Also, since the current intervention is incorporated in the existing social support structure of the VFW, it is likely to be sustained.
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Brenton H. Rupple  
L.B. Smith  
James B. Wigdale  
Allen W. Williams, Jr.
### Finance Report

#### Unrestricted Revenues*

<table>
<thead>
<tr>
<th>Fiscal year ended June 30, 2007</th>
<th>Total All Funds ($ in thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net patient revenue **</td>
<td>$387,390</td>
</tr>
<tr>
<td>Affiliated hospital contracts **</td>
<td>67,018</td>
</tr>
<tr>
<td>Grants and contracts</td>
<td>135,431</td>
</tr>
<tr>
<td>Tuition and fees</td>
<td>27,189</td>
</tr>
<tr>
<td>Investment income</td>
<td>14,325</td>
</tr>
<tr>
<td>Contributions</td>
<td>8,655</td>
</tr>
<tr>
<td>State appropriation</td>
<td>3,687</td>
</tr>
<tr>
<td>Other</td>
<td>31,991</td>
</tr>
<tr>
<td><strong>Total unrestricted revenues</strong></td>
<td><strong>$675,686</strong></td>
</tr>
</tbody>
</table>

* Excludes nonoperating revenue and expense, including realized and unrealized gains and losses on investments.
** Includes adult and pediatric revenues.

#### Unrestricted Expenses*

<table>
<thead>
<tr>
<th>Fiscal year ended June 30, 2007</th>
<th>Total All Funds ($ in thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and fringe benefits</td>
<td>$464,590</td>
</tr>
<tr>
<td>Supplies and expense</td>
<td>141,336</td>
</tr>
<tr>
<td>Other operating</td>
<td>47,338</td>
</tr>
<tr>
<td><strong>Total unrestricted expenses</strong></td>
<td><strong>$653,264</strong></td>
</tr>
<tr>
<td>Excess of unrestricted revenues over expenses</td>
<td><strong>$22,422</strong></td>
</tr>
</tbody>
</table>

* Excludes nonoperating revenue and expense, including realized and unrealized gains and losses on investments.

#### Externally Funded Sponsored Programs

<table>
<thead>
<tr>
<th>July 1, 2002 to June 30, 2007</th>
<th>Total Externally Funded Expenditures for Research, Teaching and Training, and Related Purposes ($ in millions)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>02-03</td>
<td>$118.9</td>
</tr>
<tr>
<td>03-04</td>
<td>$131.6</td>
</tr>
<tr>
<td>04-05</td>
<td>$136.3</td>
</tr>
<tr>
<td>05-06</td>
<td>$133.8</td>
</tr>
<tr>
<td>06-07</td>
<td>$142.8</td>
</tr>
</tbody>
</table>

* In Fiscal Years 2006-2007 and 2005-2006, research, teaching and training amounted to $135.0 and $125.6 million, respectively, of the total Externally Funded Sponsored Programs.

#### Externally Funded Expenditures by Purpose Fiscal Year 2007

<table>
<thead>
<tr>
<th>($ in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fellowship - 1% ($1.5)</td>
</tr>
<tr>
<td>Teaching and training - 2% ($3.2)</td>
</tr>
<tr>
<td>Multipurpose* - 6% ($7.8)</td>
</tr>
<tr>
<td>Research - 91% ($130.3)</td>
</tr>
</tbody>
</table>

* Includes community engagement, continuing medical education and other activities.
Office of Technology Development

On July 1, 2007, the MCW Research Foundation transitioned to become the Office of Technology Development, a department within the College overseeing the technology transfer process, including patenting, marketing and licensing of new technologies. The new office incorporates and expands on the activities formerly handled by the MCW Research Foundation. The Foundation was formed as a not-for-profit subsidiary of the College and will end operations in fiscal year 2007 – 2008. During the past three years, more than 200 new invention disclosures were filed by more than 300 faculty. Fifteen technologies were transferred into the commercial sector, and eight new start-up companies were launched. We recognize and thank the members of the MCW Research Foundation Board and the Foundation’s Technology Development Fund Advisory Group.

Medical College of Wisconsin Consortium on Public and Community Health, Inc.

The Medical College of Wisconsin Consortium on Public and Community Health (MCW Consortium), provides oversight for the Healthier Wisconsin Partnership Program and serves in an advisory capacity for conversion funds allocated to research and education at the College. The MCW Consortium is composed of four members selected from nominees provided by statewide and community health care advocacy organizations, four members who represent the medical school and one member selected by the Insurance Commissioner.

Chairperson
Terry L. Brandenburg, MPA, MBA
Health Commissioner for the West Allis Health Department

Vice Chair
Peggy Hintzman, MBA
Associate Director of the Wisconsin State Laboratory of Hygiene

T. Michael Bolger, JD
President and CEO of the Medical College of Wisconsin

Douglas R. Campbell
Senior Vice President of the Medical College of Wisconsin

Medical College of Wisconsin President’s Neighborhood Advisory Council

The President’s Neighborhood Advisory Council, established in 2005, provides a dialogue between the Medical College of Wisconsin and its neighbors to improve the health and vibrancy of the Medical College and its neighborhood. The Medical College views the campus as belonging to the entire neighborhood and engages the Neighborhood Advisory Council with the intention of maintaining and enhancing the surroundings to the mutual benefit of the neighbors and the College.

Chairperson
Richard Katschke
Associate Vice President of Public Affairs, Medical College of Wisconsin

Kathryn Kuhn
Associate Vice President of Government Relations, Medical College of Wisconsin

Jim Leming
Community Neighbor

Faye Mirr
Community Neighbor

Chris Schaaf
Community Neighbor

Julie and Tad Tessier
Community Neighbors
The Advisory Boards of the Medical College of Wisconsin play a critical role in increasing community awareness of the College’s major programs and raising private funds. The Advisory Boards include Wisconsin’s top business, professional and civic leaders who are committed to advancing medical research at the College.

Medical research is the necessary step to discovering improved methods to diagnose, treat and ultimately cure and prevent diseases. Private support is more important than ever as competition increases for federal grant support.

<table>
<thead>
<tr>
<th>Chair</th>
<th>Founding Chair</th>
<th>Interim Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael J. Falbo</td>
<td>Robert H. Friebert</td>
<td>TBA</td>
</tr>
</tbody>
</table>

**Emeritus Members**
- Richard L. Schmidt
- Arthur Smith
- Wm. O. Steinberg
- Richard F. Teerlink
- Nicole Teweles
- Sandra Underwood, PhD
- Richard A. Van Deuren
- W. Kent Velde
- Les Weil
- Arlene Wilson
- Sally Youker
- Diane Zore

**Emeritus Director**
- J. Frank Wilson, MD

The fund-raising efforts of Advisory Board members have supported:
- Seed funding, which allows researchers to develop a track record to compete for and leverage long-term federal funds. Seed funds have led to and will continue to lead to larger federal or private agency grants that have the potential to result in breakthrough treatments and cures for disease.
- Bridge funding for researchers while they renew grants.
- Advanced training for physicians and scientists.
- The purchase of research equipment.
- Fellowships for conducting research.

<table>
<thead>
<tr>
<th>Chair</th>
<th>Founding Chair</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Byron T. Foster</td>
<td>Bruce E. Jacobs</td>
<td>Reza Shaker, MD</td>
</tr>
</tbody>
</table>

**Emeritus Members**
- Barbara K. Boxer
- Douglas S. Levy

**Director**
- Reza Shaker, MD

<table>
<thead>
<tr>
<th>Chair</th>
<th>Founding Chair</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>David J. Raysich</td>
<td>Robert H. Jenkins</td>
<td>John Sheehan</td>
</tr>
</tbody>
</table>

**Emeritus Members**
- Barbara K. Boxer
- Douglas S. Levy

**Director**
- John Sheehan
Medical College of Wisconsin Council

The Medical College of Wisconsin Council was founded in 1976 under the direction of the late Robert Uhlein, Jr., then Chairman and CEO of Schlitz Brewing Company. Council members meet three times a year to learn about current medical topics, health issues and Medical College research.

The interaction among the more than 260 Council members – who are prominent in and outside of Wisconsin – and the Medical College has facilitated important connections to Wisconsin’s top business, professional and civic communities.
Friends of the Medical College of Wisconsin

The Friends of the Medical College of Wisconsin is an organization of volunteers from the College, affiliated institutions and the community. The Friends’ activities support the charitable, educational, scientific and community service activities of the Medical College and its affiliates. Since its inception, the Friends have contributed more than $978,500 in monetary gifts and equipment to the Medical College and its affiliates.

Executive Committee Friends Board
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Kathy Sheehan, President Elect
Pam Jaradeh, Past President
Joan Fosnight, Vice President
Marge McDonough, Treasurer
Dorina Weigelt, Corresponding Secretary
Ginny Bolger, Recording Secretary
Sachi Deschenes, General Board Member
Patricia Headrick, General Board Member
Gerri Schultz, General Board Member

In 2006-07, the Friends of the Medical College of Wisconsin provided:

Funding Awards
• Awarded two $10,000 Scholarships for Academic Excellence
• Increased the Friends’ Endowed Scholarship Fund to more than $440,000
• Presented a $1,000 Outstanding Dissertation Award and a $500 Second Place Award
• Provided $6,000 in Student Travel Awards enabling College representation at national meetings
• Supported Summer Research Fellowships with $8,000
• Sponsored Service Awards of $1,000 to graduating students
• Hosted a Student Luncheon
• Sponsored the Student Representative Travel Fund with $2,000.

Fundraising Activities
• Contributed more than 11,000 hours of service from members for the Medical College and its affiliates
• Operated the Friends Cafe at the Medical College
• Hosted market days, holiday bake sale, Trek Bike raffle, chili extravaganza, and nut/candy sales
• Hosted “An Evening with Friends” wine dinner
• Endowment Campaign.

Medical College of Wisconsin / Marquette Medical Alumni Association

The Medical College of Wisconsin/Marquette Medical Alumni Association provides services to strengthen connections among alumni and with the Medical College, and between students and alumni. These services include:

• Annual Alumni Reunions and Clinic Day
• Receptions at national specialty society meetings
• Annual clinical conference
• Alumni Association Web site
• Alumni meetings, dinners / receptions in Wisconsin and around the country
• Symposium for Senior Physicians (spring & fall)
• Alumni News magazine
• 50-year reunion
• Student yearbook
• Student scholarships
• Sponsorship of medical student, graduate student and resident activities
• Host-An-Applicant program
• Student loans
• Host-A-Senior Program for residency interviews
• Freshmen picnic and orientation
• Music at MCW
• Snack Days
• Match Day Event
• Bob Herzog Alumni Scholarship Golf Classic

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Humberto R. Ravelo, MD ’72
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Daniel R. Wartinbee, MD ’77, GME ’82
Catherine M. Wigder, MD ’73