

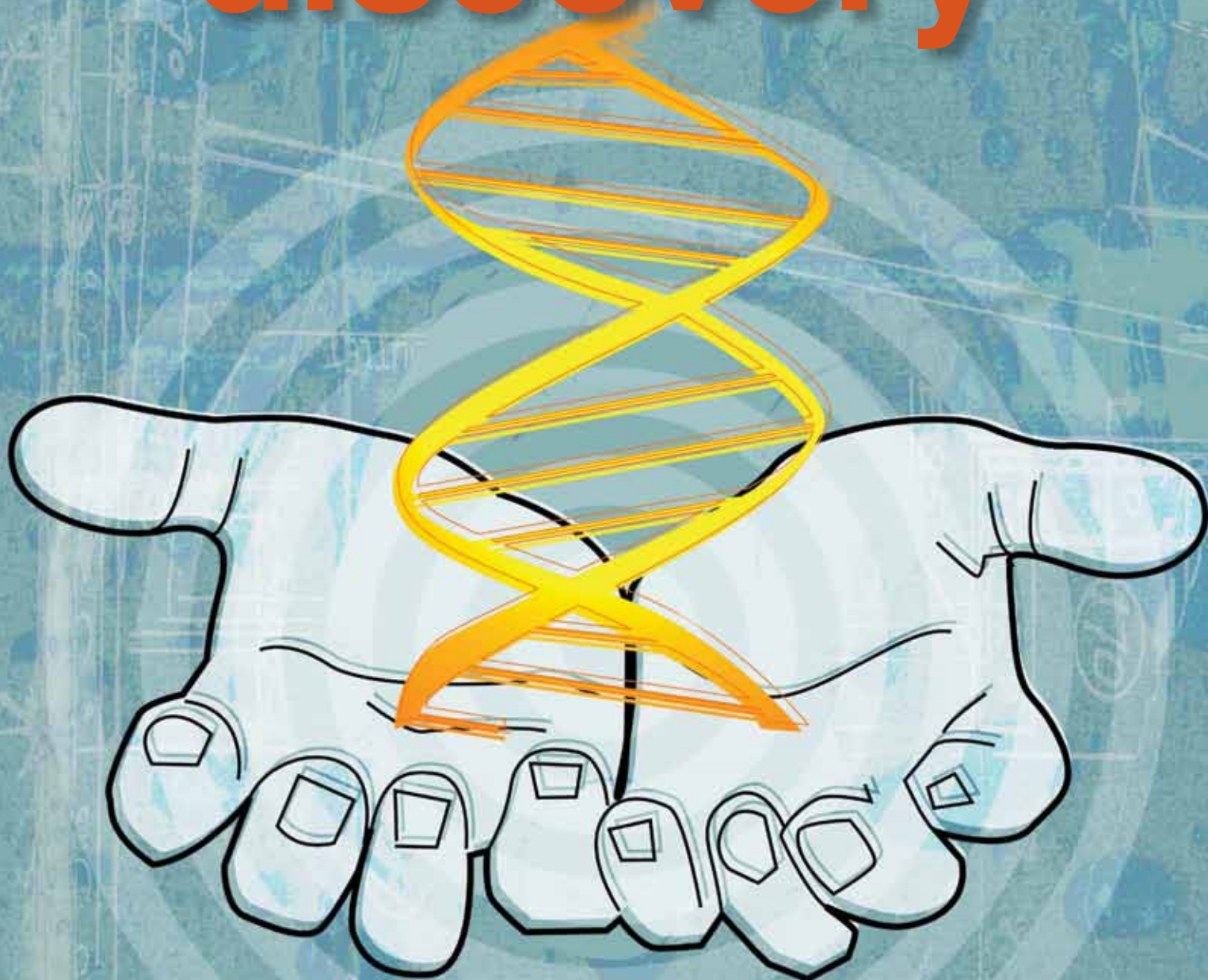


UNIVERSITY of MARYLAND

Medicine Bulletin

Fall 2013 • Volume 98 • Number 2

Pathways to **discovery**



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features

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In this issue centering on discovery, award-winning writer Rita Rooney examines ground-breaking research taking place in Maryland's institute for genome sciences and its departments of surgery and pharmacology. These three units contributed considerably to the \$430 million received in grants at Maryland during 2012.

The MAA Honor Roll of Donors 18

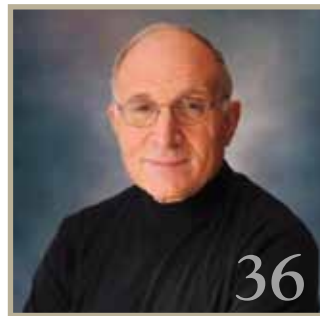
Alumni, faculty and friends of the medical school who made contributions through the Medical Alumni Association between July 1, 2012 and June 30, 2013 are recognized in this issue. Included are members of the John Beale Davidge Alliance, the school's recognition society for major donors.

Alumnus Profile: Thom Lobe, '75 34 *A Bold Perspective*

Thom Lobe, '75, spent the first part of his career developing minimally invasive laparoscopic procedures for children. While Lobe continues this work, he's also found that much of his research in nutritional and hormonal balance, as well as stem cell therapy, can be applied to the science of staying young.

Alumnus Profile: Philip Needleman, PhD '64 *Discovery on His Terms 36*

After a 25-year career as chair of the department of pharmacology at the Washington University in St. Louis, Philip Needleman, PhD '64, realized academia didn't have the resources to bring his discoveries to fruition; so he accepted an offer to join Monsanto. It was the right move, but came with its own set of challenges. Needleman is credited with co-discovering the first angiotensin antagonist for hypertension, as well as discovery of the inflammation target cox-2, leading to the development of Celebrex to treat arthritis and precancerous colon polyps.



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Medical practice has evolved and will continue to do so as we begin pushing for more personalized and precision health care. Gone are the days of the general practitioner who attempted to treat all conditions in all patients. Health care is now so complex that not only specialists, but so-called *super*-specialists, are needed to manage complicated cases successfully. Additionally, the advent of rapid and affordable genome sequencing technologies, and our growing understanding of how genetic variation is related to thousands of diseases, will result in an incredible amount of raw data about a patient. Healthcare professionals must not only understand and interpret such information, but will need to translate it into routine patient care.

Integrating healthcare professionals and biomedical research scientists begins at academic medical institutions, where tomorrow's physicians, allied health professionals, and researchers receive training. Maryland has made a concerted effort to break through the medical science silos by emphasizing the importance of having a continuum of academicians (from basic science, to translational research, to clinical research and care) on its faculty, all of whom are vital to the acceleration of discovery and innovation in medicine.

This past June, our school launched an initiative called **Vision**

2020. Our vision includes a series of bold yet realistic selective, strategic and opportunistic approaches

The emergence and continued growth of personalized and preventive medicine in the very near future will catalyze fundamental changes at many different levels in health care and health systems.

meant to position the school for maximum and extraordinary success. We outlined ambitious goals for all our key mission areas—education, clinical care, finance and philanthropy, and research.

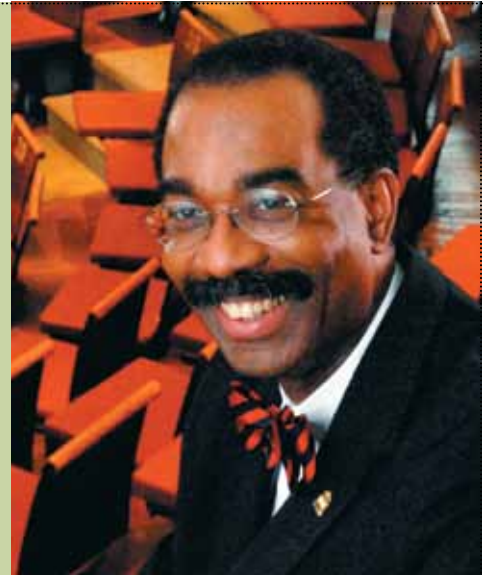
Whereas the previous issue of the *Medicine Bulletin* featured the changes in our philosophy of education, this issue focuses on our vision for research, specifically on how scientific collaborations can lead to medical breakthroughs. Within our **Vision 2020**

for Research, the school aims to significantly and measurably increase the pace and scope of scientific discoveries that ultimately impact human health. To achieve this goal, we are focusing on research that tackles “big science” questions using team science approaches. As we begin to explore possible interdisciplinary projects across the campus, it is vital for us to be aware of the expertise of our colleagues.

In this issue, we highlight the work of the department of surgery, led by **Stephen Bartlett, MD**, the institute for genome sciences, led by **Claire Fraser, PhD**, and the department of pharmacology, led by **Margaret McCarthy, PhD**. Each chair and director understands the importance of conducting translational research, where basic science is transformed into clinical practice. One of the alumni profiled in this issue, **Philip Needleman, PhD**, also recognizes that basic research plays an integral part in shaping the medical field.

On November 22, 2013, the school will launch a major initiative for its **Vision 2020 for Research, “Accelerating Innovation and Discovery in Medicine.”** A cornerstone of this program is the formation of an external scientific advisory council, which will visit us annually and provide critical advice on our research portfolio, programs and plans. This effort will be kicked off with a full-day symposium, the “Festival of Science,” to celebrate the groundbreaking research being conducted on campus. Francis Collins, MD, PhD, director of the National Institutes of Health, will give the inaugural keynote address.

The emergence and continued growth of personalized and preventive medicine in the very near future will catalyze fundamental changes at many different levels in health care and health systems. As we usher in a new golden age of medicine, we at the school are shaping our curriculum, our biomedical research endeavors, and our clinical practice to not only keep pace with the times, but remain at the forefront of these exciting changes. 🏛️



E. Albert Reece, MD, PhD, MBA
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EVENTS Alumni Gather at NMA in Toronto

More than 80 alumni, faculty and friends of the medical school gathered for a reception in Toronto on July 29. Held in conjunction with the National Medical Association annual meeting, the gathering was staged at the Fairmont Royal York Hotel. Medical school dean **E. Albert Reece, MD, PhD, MBA**, who received a president's citation at the national meeting, co-hosted the event with MAA executive director **Larry Pitrof**. **Robert M. Phillips, '82**, a member of the MAA Board of Directors, has organized the annual get-together since 2001.



Robert M. Phillips, '82 and Elijah Saunders, '60 in Toronto

EVENTS Jurkovich Named Inaugural Mancuso Lecturer



Thomas Scalea, MD, with aunt Angie Mancuso and Gregory J. Jurkovich, MD

Gregory Jerome (Jerry) Jurkovich, MD, chief of surgery and trauma services at Denver Health Medical Center and the Bruce Rockwell Distinguished Professor of Trauma and vice chairman of the department of surgery at the University of Colorado School of Medicine, was the inaugural speaker for the Mancuso Family Lecture in Humanism. The endowed lecture was established by **Thomas Scalea, MD, FACS**, the Francis X. Kelly Professor of Trauma Surgery, Department of Surgery, and director of the program in Trauma. The gift was made to honor his aunt and her family. The lecture was held April 18.

Transitions



Bankole Johnson, DSc, MD, MPhil, a leading expert in neuroscience and the psychopharmacology of addiction research, was named chair of the department of psychiatry. He will also lead the new brain science research consortium unit (RCU). Johnson comes to Maryland from the University of Virginia, where he was the professor and chairman. A 1982 graduate of the University of Glasgow, Johnson trained in psychiatry at the Royal

London and Maudsley and Bethlem Royal Hospitals. His primary area of research is the psychopharmacology of medications for treating addictions. Johnson replaces **Anthony F. Lehman, MD, MSPH**, now senior associate dean for clinical affairs.

Mary Rodgers, PT, PhD, FAPTA, FASB, has resigned her post as chair of the department of physical therapy & rehabilitation science to pursue a temporary appointment with the NIH's National Institutes of Biomedical Imaging and Engineering. She will retain her teaching and research activities at Maryland and serve as vice chair for the department. Rodgers has been on the faculty since 1994 and has served as chair since 1998. **Mark W. Rogers, PT, PhD**, an internationally recognized expert in neuromotor control and rehabilitation research, has been appointed interim chair. 🏛️



Kernan Renamed

Kernan Orthopaedics and Rehabilitation Hospital has been renamed the University of Maryland Rehabilitation & Orthopaedic Institute, reflecting its growing prominence in innovative and collaborative research to advance patient care, strong ties to the University of Maryland and continued commitment to the highest quality patient-focused care.

“As one of the nation’s leading rehabilitation care and research facilities, the specialized services that we provide the citizens of Maryland are increasingly being sought by patients looking for innovative care,” says **Michael Jablonover, MD**, chief executive officer of the University of Maryland Rehabilitation & Orthopaedic Institute and clinical assistant professor of medicine at the medical school. “While our name may be changing, what will not change is the tradition of providing the best rehabilitative and orthopaedic care in the region,” he adds.

The hospital specializes in advanced rehabilitation services and state-of-the-art technological and surgical approaches to help patients recovering from trauma and stroke as well as spinal cord, brain and other injuries. The hospital also has a comprehensive orthopaedic program, including joint replacement surgery.

“Our founder, James Lawrence Kernan, established this hospital with a vision of better rehabilitative care. As we enter this new era, we strive to honor that legacy through the commitment of our interdisciplinary teams of physicians, nurses, therapists and other staff to further our mission helping our patients to recover and achieve their maximal independence,” says Jablonover.

The 144-bed institute is the largest inpatient rehabilitation hospital providing rehabilitation services in the state. Patients make the transition to rehabilitation



The 144-bed institute is the largest inpatient rehabilitation hospital providing rehabilitation services in the state.

after recovering from cardiovascular events such as stroke, traumatic injury, orthopaedic surgery and related illnesses. Additional specialty programs include treatment services for amputation, rheumatology, multiple sclerosis, Parkinson’s disease and other neuro-degenerative disorders. A broad range of outpatient clinics, including the pain management center, dental services and the center for integrative medicine complement the offerings. 🏛️

Marijuana Use in Adolescence May Permanently Impair Brain Function

Regular marijuana use in adolescence, but not adulthood, may permanently impair brain function and cognition, and may increase the risk of developing serious psychiatric disorders such as schizophrenia, according to Maryland researchers. They hope that the study, published in *Neuropsychopharmacology*—a publication of the journal *Nature*—will help to shed light on the potential long-term effects of marijuana use, particularly as lawmakers in Maryland and elsewhere contemplate legalizing the drug.

“Over the past 20 years, there has been a major controversy about the long-term effects of marijuana, with some evidence that use in adolescence could be damaging,” says the study’s senior author **Asaf Keller, PhD**, professor of anatomy and neurobiology at Maryland. “Previous research has shown that children who started using marijuana before the age of 16 are at greater risk of permanent cognitive deficits, and have a significantly higher incidence of psychiatric disorders such as schizophrenia. There likely is a genetic susceptibility, and then you add marijuana during adolescence, and it becomes the trigger.”

The scientists began by examining cortical oscillations in mice. They exposed young mice to very low doses of the active ingredient in marijuana for 20 days, and then allowed them to return to their siblings and develop normally. In the adult mice exposed

to marijuana ingredients in adolescence, they found that cortical oscillations were grossly altered, and they exhibited impaired cognitive abilities. They also found impaired cognitive behavioral performance in those mice. The striking finding is that, even though the mice were exposed to very low drug doses, and only for a brief period during adolescence, their brain abnormalities persisted into adulthood.”

The scientists repeated the experiment, this time administering marijuana ingredients to adult mice that had never been exposed to the drug before. Their cortical oscillations and ability to perform cognitive behavioral tasks remained normal, indicating that it was only drug exposure during the critical period of adolescence that impaired cognition through this mechanism. The researchers took the next step in their studies, trying to pinpoint the mechanisms underlying these changes and the time period in which they occur.

“We looked at the different regions of the brain,” says Keller. “The back of the brain develops first, and the frontal parts of the brain develop during adolescence. We

found that the frontal cortex is much more affected by the drugs during adolescence. This is the area of the brain that controls executive functions such as planning and impulse control. It is also the area most affected in schizophrenia.” 🏛️



We found that the frontal cortex is much more affected by the drugs during adolescence. This is the area of the brain that controls executive functions such as planning and impulse control.

Contributors to News & Advances include: Sharon Boston • Karen A. Robinson • Larry Roberts • Rita Rooney • Bill Seiler • Karen Warmkessel Photos by: John Seebode • Mark Teske

GammaPod Targets Early-Stage Breast Cancer



Cedric Yu, MS, DSc

An experimental innovation in cancer treatment from the department of radiation oncology could provide a new, high-precision, noninvasive method of treating early-stage breast cancer. The GammaPod was invented by Cedric Yu, MS, DSc, the Carl M. Mansfield Endowed Professor in the Department of Radiation Oncology, who patented the technology in 2006. Although the device has not yet been cleared by the Food and Drug Administration for use on patients, the manufacturer is actively seeking

that approval, and the department hopes to begin clinical trials soon.

The GammaPod enables a proven technology called stereotactic body radiation therapy (SBRT) to be used for breast cancer. SBRT has been used to successfully obliterate inoperable brain tumors and hard-to-reach lung and liver cancers. However, SBRT technology has not been applied to breast cancer. GammaPod is the first device created specifically for the treatment of breast cancer. It is designed so that patients can receive external radiation treatments while lying on a comfortable treatment couch. The device uses tens of thousands beams of radiation from 36 rotating sources to focus the radiation to the tumor.

The affected breast is fitted into a patented two-layer, vacuum-assisted cup that immobilizes the breast during imaging and treatment. Treatment will take anywhere from 5–40 minutes, depending on the treatment plan.

Although it has yet to be tested on breast cancer patients, Yu hopes that the GammaPod will one day offer an alternative to invasive surgery in those with early-stage tumors. “With standard therapy, breast cancer patients often have surgery to remove the tumor, followed by five to seven weeks of radiation treatments to destroy any residual cancer cells,” says Yu. “We hope that GammaPod will dramatically reduce the treatment time to a few treatments that can be done over the course of a week. There is potential that the need for surgery could be eliminated altogether, meaning no needles, no knives, no anesthesia and no scars.”

Yu’s research was funded initially by \$3.5 million in small business innovation research grants from the National Institutes of Health. With support from Maryland’s office of research and development, he founded a new company called Xcision Medical Systems, LLC, to pursue GammaPod’s development. 



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“Supporting the University of Maryland School of Medicine with a deferred charitable gift annuity was a simple choice for us. Our legacy gift provides us with benefits now, and the School benefits forever.”



Steven J. Gross, MD '73 and Enid K. Gross, PhD

Through his volunteer work as a committee chair or their generous philanthropic support, Drs. Gross are invested in the future of his alma mater. Their deferred charitable gift annuity was a sound next step in continuing their legacy at the School of Medicine.

Deferred charitable gift annuities are simple contracts between a donor and the University of Maryland Baltimore Foundation, Inc. (UMBF).^{*} In exchange for a gift of cash or appreciated securities, UMBF promises to pay fixed income for life to one or two beneficiaries selected by the donor. When the obligation to make life income payments ends, the balance of the account can be used for scholarships, faculty enhancement, or almost any other need of the School of Medicine.

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Carl Sagan might have been monitoring research at Maryland when he predicted that “Somewhere, something incredible is waiting to be known.”

PATHWAYS TO discovery

Celebrating a history of research achievement, the medical school has reached an extraordinary level of discovery with scientific progress predicated on collaboration, innovation and intellect. As one of the fastest growing research institutions in the country with \$430 million in grants during 2012, prominent programs in transplantation, cardiology, pharmacology, genomics, surgery, vaccine development and AIDS are part of a research portfolio earning widespread acclaim in the scientific community.

Throughout the medical school, collaborative studies have become the norm—within departments, the university itself and through multiple institutional research. Nowhere is that more prevalent than at the institute for genome sciences (IGS) and the departments of surgery and pharmacology.

Headed by Claire M. Fraser, PhD, professor of medicine, microbiology & immunology, several IGS faculty members are pioneers in the field of microbial genomics. An elected member of the Institute of Medicine, Fraser gained international recognition when, assisted by colleagues, she decoded and analyzed genomes of bacteria causing anthrax, Lyme disease, syphilis, tuberculosis, cholera, meningitis, pneumonia and ulcers.

“We were among the first researchers to apply genomics to the study of bacterial pathogens,” Fraser says, “although the field has grown significantly in the last several years.” She adds that they have recently expanded their work into the study of the human microbiome.





Photos by Thomas Jemski

By Rita M. Rooney

Fraser discusses two collaborative studies with Marcelo Dztein, MD, professor at the school's center for vaccine development (CVD) in which her group focused on the gut microbiota. In one, they looked at the effect of an anti-Salmonella vaccine on human volunteers from Baltimore. In the other, they studied the effect of a Shigella vaccine in non-human primates. In that study, they were able to challenge the animals with a virulent form of the pathogen.

"Shigella causes more than 100,000 deaths annually in underdeveloped countries, most of them affecting infants and children," Fraser says. "A highly successful vaccine would enable immunity on an enormous scale. Right now, vaccines are partially, but not wholly effective. Hence, our partnership with the CVD."

It's the first time anyone looked at the organisms present in the GI tract in the context of vaccines, and how they may provide a first line of defense against certain pathogens.

The researchers were able to identify certain types of bacteria in the gastrointestinal tract of monkeys that appear to be protective against Shigella. If this can be confirmed in human trials, it could lead to an understanding of how the composition of the gut microbiota at the time of vaccination could result in a robust immune response.

"This is a big breakthrough," Fraser reports. "It's the first time anyone looked at the organisms present in the GI tract in the context of vaccines, and how they may provide a first line of defense against certain pathogens."

IGS scientists number 16 with an annual per capita funding of more than \$1 million. Faculty diversity is underlined by member appointments in the department of medicine, microbiology & immunology, biochemistry and epidemiology. In 2012, the institute's funding was more than \$18 million. Collaborative research is conducted with the Greenebaum Cancer Center, institute of human virology, center for vaccine development, the program in personalized and genomic medicine, and most medical school departments, as well as the University of Maryland Schools of Law, Dentistry, Nursing, and Pharmacy. Among

numerous research topics undertaken are bioinformatics, human genomics, infectious diseases, metagenomics, population and evolutionary genomics and systems biology.

A study that earned a place in *Discover* magazine's top 100 discoveries of 2007 is one conducted by Julie C. Dunning Hotopp, PhD, IGS assistant professor of microbiology & immunology. Hotopp is responsible for groundbreaking research documenting extensive lateral gene transfer between symbiont organisms and invertebrates. There is a rich ecosystem of microorganisms of bacteria, yeast and fungi in the human body. Recently, Hotopp presented additional

Claire M. Fraser, PhD



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 Claire M. Fraser, PhD, can be contacted at cmfraser@som.umaryland.edu

evidence that bacterial DNA is transmitted to human cells and integrated into the genome. The study used a computational approach to identify the bacterial DNA in the human genome samples, leading to evidence of lateral gene transfer.

The investigation represents an important finding in that the bacterial DNA is different in normal cells from that in cancer cells. Nearly 80 percent of the non-cancer samples lacked evidence of bacterial DNA integration, in contrast to 30 percent of the tumor cells. The results may indicate that lateral gene transfer in the human genome may lead to mutations with a role in cancer and possibly other diseases.

In another IGS laboratory, Scott Devine, PhD, associate professor of medicine, is collaborating in an international initiative, the 1000 Genomes Project, involving worldwide genome centers and laboratories. The program goal is to produce a catalog of natural genetic variation from human populations. The resulting 2012 paper contained 1092 human genomes sequenced. A final paper in 2014 is expected to include more than 2500 genomes. The catalog provides an unprecedented look at genome variation in normal healthy populations, and is already serving as a valuable reference for projects examining disease caused by human disease variation.

Devine reports, "Similar projects are underway at IGS to examine genetic variation in the genomes and exomes of patients, including pediatric patients with a range of genetic disorders, as well as families with various diseases including cancer."

He adds the overall goal of these projects is to employ the power of genome and exome sequencing to identify DNA sequence modifications responsible for the diseases. The projects involve teams of researchers with expertise in genome sequencing, genetics, genomics and bioinformatics.

Surgical Research

With 28 new research initiatives funded by the National Institutes of Health and more than \$9 million funding for fiscal 2013, the department of surgery ranks eighth among more than 130 academic surgical departments in the country.

Stephen T. Bartlett, MD, Peter Angelos Distinguished Professor, chairman and surgeon in chief, department of surgery, heads pioneering research in composite tissue transplants. This work has been enabled by the world's first full



Stephen T. Bartlett, MD

facial transplant, successfully performed by faculty surgeons earlier this year.

"These are major transplants of skin, muscle, bone and all supporting structure including nerves and blood vessels," Bartlett reports. "Our aim is to achieve transplant tolerance, that is transplants that can be achieved without the toxic effects of immune suppressants."

He explains that, in doing the research leading to the facial transplants, investigators found that, when transplanting segments of bone containing large amounts of bone marrow, the recipient animals displayed cells of the donor in their blood cells which made their bloodstreams chimeric, or part recipient animal, part donor animal.

This was a remarkable discovery in that, in bone marrow transplants for cancer patients, lethal drugs and radiation kill the recipient's bone marrow.

"We noticed that the recipient animals needed less than normal, even trivial amounts of immunosuppression," Bartlett says. "We believed something unique happens when we used vascularized bone."

The researchers carefully repeated the experiments, excluding the vascularized bone and found high rejection of the tissue. Then they decided perhaps they could achieve the same end by using bone marrow cells only. Not so. Ultimately, they were able to prove that vascularized bone is the critical element in achieving near transplant tolerance. The team currently has two grants from the Department of Defense totaling nearly \$4 million. One grant from the Armed Services Institute of Regenerative Medicine is directed to refining their conclusions and applying results to other organs. In addition, this grant will help support additional facial transplant cases. This major breakthrough and the publications that followed have had a positive impact on the entire transplant community, and will become the essence of department grants over the next four years.

Tolerance, acceptance of a transplanted organ without need for immunosuppression, is what David B. Leiser, MD, associate professor of surgery and chief of kidney and pancreas transplantation, calls the Holy Grail of transplant surgery. Leiser is part of a multi-institutional tolerance network, a study in which Maryland has joined other top academic research centers in a collaborative effort to eliminate the need for immunosuppression in transplant.

"Transplant surgery has enjoyed tremendous advances in recent years," he says. "The real problem we face today is getting the patient to tolerate the new organ. However, we are moving forward through collaboration. We're working on a

Stephen T. Bartlett, MD, can be contacted at sbartlett@smail.umaryland.edu



Margaret M. McCarthy, PhD

Photo by Richard Lippenthal

larger scale than ever before, and this makes us hopeful.”

He explains that to effectively test the tolerance of patients to a specific drug, a large volume of adult patients in high volume transplant centers, such as Maryland, are needed.

“We are collaborating in different ways to limit rejection and improve long-term outcomes for renal patients,” he reports. “For instance, during the transplant from donor to recipient, the kidney sometimes shuts down for a few weeks before it again starts functioning. We’re experimenting with a drug that hopefully will minimize the incidence of that shut-down.”

Jonathan S. Bromberg, MD, PhD, professor of surgery and division chief of transplant surgery, studies basic cellular and molecular mechanisms in the transplantation of pancreatic islet cells. In collaboration with the IGS, he also studies how immune suppression affects the microbiome.

Additionally, he reports that Maryland has been at the forefront of research involving the islet cells in the pancreas. “In trying to cure diabetes, we’re performing pancreatic islet transplants,” he says. “We isolate the islets and transplant them, using either a variety of immunosuppressants or antibodies directed against a threat to the immune system.”

He says the hope is that this will not only make immunosuppression more effective, but will contribute to knowledge about how therapies work, while adding to the understanding of the immunosuppression system.

In pinpointing some of the stellar research in the department, Bartlett cites collaboration with plastic surgeons at the R. Adams Cowley Shock Trauma Center as pivotal to both past and future investigations.

“These are extraordinarily skilled surgeons who contribute an invaluable dimension to our facial transplant program,” he says.

Emphasizing the scope of the department’s research initiatives, Bartlett says, “In cardiac transplant surgery, Bartley Griffith’s team has developed the first wearable, preoperative lung device to serve as a bridge to transplant. Dudley Strickland has contributed significant

knowledge in areas of biochemistry, vascular and stem cell biology and cardiology through his focus on the integration of molecular and cell biology. Rolf Barth and I have produced research that allows replacement of skin, muscle and bone tissue to restore form and function to massive burn and trauma injuries.”

Pharmacology Research

Margaret M. McCarthy, PhD, professor and chair, department of pharmacology, is accustomed to recognition for discoveries in her department including seminal research providing insights related to differences in brain diseases affecting males and females. However, recognition of one’s work isn’t always what one would hope. Following her article describing her research on the language gene FoxP2, McCarthy received a torrent of media coverage, most of it lauding the research, but some reducing it to “women talk more than men.” In fact, the article highlighted important findings on sex differences in language. McCarthy’s research, which compares brains of male and female newborn rats, has contributed important studies on health disorders that largely affect males, many of which involve impairments in communication.

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Margaret M. McCarthy, PhD, can be contacted at mmccarth@umaryland.edu

“You can’t study sex differences in the brain without its having relevance to society.” McCarthy says. “By comparing the male and female brain, we’ve found important processes that pertain to the risk for specific diseases.”

McCarthy has always been interested in the precise mechanism of how hormones act in the brain. Males have high levels of testosterone, females do not. Everyone knows this is true in adults but many are not aware that it is also true for a limited time during development and that this has profound impact on the developing brains of males versus females. McCarthy studies this period of brain development to gain insight into the origins of many mental health, language and communicative disorders that affect males more than females, including autism, early onset schizophrenia, hyperactivity and attention deficit disorder.

“Right now, we are asking if what we see in our animal model can be descriptively seen in the human brain,” she says. “Maryland has a brain bank that will help further this research.”

Funded in excess of \$7 million for fiscal year 2013, her department is looking at endpoints in the brain from the perspective of both health and disease. Just one instance involves the hippocampus, the only part of the human brain where new neurons are generated. Her laboratory found that, after birth, the neurons continue to be generated more in the male brain than in the female. Study of the hormones regulating this provided information about neurogenesis and possible therapeutic benefits following brain injury, since the hippocampus is one of the areas affected by brain damage. In other parts of the brain, researchers in her laboratory discovered that cell types which are not neurons,

You can’t study sex differences in the brain without its having relevance to society. By comparing the male and female brain, we’ve found important processes that pertain to the risk for specific diseases.

such as astrocytes and microglia, also differ profoundly between males and females and that these differences are important to normal behavior. Changes in the relative numbers and phenotypes of these cells as well as neurons may have relevance to disorders in which social behavior is dysfunctional, such

as autism spectrum disorder and schizophrenia.

Currently, McCarthy collaborates with Mary McKenna, PhD, professor of pediatrics, and Gary Fiskum, PhD, professor and vice chair of anesthesiology, in studies about stroke in utero, and therapeutics to help recovery of the brain from injury due to loss of oxygen prenatally or at birth.

Critical discoveries are being made throughout pharmacology laboratories. Associate professor, Jessica A. Mong,

PhD, studies sex differences and hormonal modulation of sleep. Her interest emanates from research showing women are more likely to suffer from insomnia than men.

“In our work with rodents, we investigate the sleep circuitry and how estrogen affects it,” she says. “All regions are connected by neurons that send messages from one region of the brain to the other. What we want to know is whether estrogen acting at some particular region sets everything in motion, or is there a more global cause that occurs in all the sleep nuclei.”

She explains that if her research can identify what’s going on in the individual cells, and how hormones are changing the brain regions that control sleep, it may be possible to design therapeutics specifically beneficial to women.

Brian Mathur, PhD, assistant professor, studies alcohol effects on the brain, and has been able to conclude, using electrophysiology experiments, that alcohol changes the synaptic strength in specific brain circuits that promote habitual behavior.

“Under normal circumstances, behaviors such as the way a person drives a car or brushes his teeth are formed,” he explains. “The system that controls habit forming is hijacked by abuse of alcohol. The result is habitual or compulsive use of alcohol.”

Mathur’s studies look at specific circuits in the brains of genetically engineered mice, asking how they change in response to alcohol. An extension of that is manipulating the same circuits in vivo when the animal is actually drinking alcohol. He hopes to identify specific circuits within the brain that are associated with compulsive drinking, as well as molecular clues that lead to the development of therapeutic drugs for intervention.

Meanwhile, Yun Qiu, PhD, professor, studies receptors in prostate cancer that result in resistance to treatment.

“Most patients do well in their initial treatment of prostate cancer,” she says. “But there is considerable resistance with a recurrence of the cancer.”

The laboratory is studying signal transduction within eukaryotic cells, and has demonstrated that deregulation of these signaling molecules may play an important role in developing therapeutic resistance in prostate cancers.

Before becoming chair, McCarthy was the first director of Maryland’s graduate program in life sciences—the umbrella program for students earning a PhD.

“Graduate education is, in itself, team science.” McCarthy says. “Each student has a primary mentor, and faculty that forms a thesis committee. This brings together a diverse group, focusing on a particular scientific question from multiple angles, thereby advancing collaborative research further than would be possible by a lone investigator.”

From surgery to genome studies to pharmacology and beyond, Maryland’s pathway to life-changing discovery is well traveled. 🏛️

The Times In-Between

HOWARD A. RUSK was born in the northern Missouri town of Brookfield at the start of the 20th century. After finishing his MD degree at the University of Pennsylvania in 1925, Rusk went on to become the founding figure of rehabilitation medicine in the United States. An institute at New York University still carries his name, and he is remembered for a powerful and reforming approach to treatment of the disabled. Yet Rusk did not begin his student career in the sort of dire straits that would have easily predicted a mature man sensitive to “whole patient” needs. His father ran several farms that had prospered during World War I, and when the younger Rusk went off to college in 1919, his expenses were not only being covered by his family but supplemented with a personal allowance of \$75 per month—almost \$1000 in current terms. Such luxury soon came to an end, however, with the post-war depression that hit many farming areas of the United States by 1921. Rusk continued in college on a combined BA/MD program at his state university before transferring to Penn, but had to live in a very different manner. He gave up using a car and began to support himself with a variety of grinding jobs that cost him sleep yet were essential to fulfilling his dream of becoming a doctor. In a memoir published in 1972, Rusk recalled how he would garner extra coins as a night orderly. One of his tricks was to warm bedpans on a radiator, and in return he received tips—dimes usually, plus the occasional quarter from a grateful patient. One cold night in 1924 he was even given a whole dollar by an elderly man, enough money to allow him to take his girlfriend out for dinner and a dance the following weekend.¹

Medical students in Baltimore during the first half of the 20th century also knew the sort of personal challenges that Rusk recalled. The city continued its pattern of growth—erratic at times—as it had during the 19th century, and such growth created both difficulties and opportunities



for students. **Henry H. Startzman Jr., '50** remembers single trips of an hour or longer to cross the city via streetcar or bus: early in the morning to get from Roland Park, where he boarded with the family of a retired physician; mid-day to take part in clinics at City Hospital or Sheppard Pratt; and in the evening, when he would hope to return in time for the dinner that was included with his living arrangements.

Startzman's father had agreed to cover the cost of a room (no telephone, television or even radio included) plus two meals per day at \$48 per month—c. \$500 in 2013 dollars. Warming bedpans was not part of Startzman's own story, yet long hours spent on public transportation were a given. Public transport from the 1940s is now romanticized in popular culture, although older readers—or readers who hail from developing countries today—will recall vehicles odorous and often too hot or too cold depending on the season. Streetcars, trackless trolleys and city buses of the past may have been largely safe from serious crime but were nonetheless a physical drain even on the young riders who frequented them in crowded conditions.

Since the advent of the four-year medical curriculum plus internship and residency—in place at most medical centers since at least the time of Rusk's student years, for some institutions a full generation earlier—physician memoirs show a strong consistency. Long daily routines are always remembered: labs, lectures and demonstrations, of great quantities of material to memorize, then the shock of having to put on a white coat and deal directly with living, suffering patients. For all the changes in medical technology over the past 100 years, a reader of medical memoirs will find a similar pattern in student life going back even into the 1890s. Where there are clear differences, they appear at the *interstices*: the spaces of time and experience that come in between lectures, labs and clinics. Startzman recalls the plush wide seats, the red and gold decor of the

original Hippodrome in 1948. He remembers Al's restaurant nearby at Greene and Redwood Streets—within walking distance of the medical school, cheap but good eats that were a break from dull hospital food. He also tells of his final year in medical school, when the soon-to-be-doctor would write his fiancée a letter (“hard copy” to students now) almost every day even though she lived in Randallstown and worked at a clinic in downtown Baltimore. On weekends, he would take a trip out to see her that required use of the complete trifecta of old public conveyances: trackless trolley, street-car and city bus. His journey could be as tiring as two hours in each direction and with no smart phone for entertainment or instant communication along the way.

Rusk had his own stories of such times in-between, and again it was his last year as a medical student that he could recall in greatest detail. Rusk's fiancée had trained as a social worker, and in 1924 she began earning \$100 per month working for the City of New York. The two lovers would meet on select weekends, when he would come up from Philadelphia, and they would both skip lunch for days in order to have enough for train, subway and bus fare. One Sunday afternoon they had saved enough to buy two tickets for the tea dance at the celebrated Biltmore Hotel by Grand Central Terminal. The hotel waiters were not happy, though, because Rusk could not afford to order anything to



Henry H. Startman Jr., '50, while in medical school

eat; and then, at the next table:

“... a huge, fat man ordered a double portion of bay scallops. They were brown and succulent, and as he sat there dipping them in tartar sauce and popping them into his enormous mouth, we became ravenous ... with only a dollar, we rushed to a hamburger stand [outside] to stop our hunger pains ...”

Yet they had measured out their money so precisely beforehand that, when Rusk got back to Philadelphia via train at 3:00 a.m., on Monday, those hamburgers had cost him his only spare change. He didn't have “even the nickel for carfare” and so had to walk back to his

medical student dormitory, then try to get ready for his daily routine to resume a few hours later.

Where once there were hamburger stands, tea dances with scowling waiters, and long smelly train rides, in 21st century venues such as the magnificent student center of the University of Maryland we are offered a rich and digitized smorgasbord. In another 50 or 100 years, will the medical students from 2013 be recording their memories of ethnic foods, smart-phone apps and expensive coffees? Will those memories carry the power of plush red seats, large men eating scallops, and hot streetcar rides late into the evening on the way back to a plain bed after seeing one's beloved? 🏛️

¹Howard A. Rusk, *A World to Care For* (New York: Random House, 1972), 42-44.



Author Wayne Millan has been working behind the scenes of Maryland's historical CPC for more than a decade. A teacher and historian, he entered the world of on-line learning two years ago, teaching an intensive class in Classical Latin through the George Washington University.

Awards & Honors

❖ **Curt Civin, MD**, associate dean for research; director, center for stem cell biology & regenerative medicine; and professor, departments of pediatrics and physiology, was inducted into the Baltimore Jewish Hall of Fame at the Gordon Jewish Community Center in Baltimore on June 12.

❖ **Marc Hochberg, MD, MPH**, was recognized by the Osteoarthritis Research Society International with a lifetime achievement award on April 20. This award is given to "honor persons who have devoted much of their career to the advancement of the science associated with osteoarthritis." He also received the Art Modell President's Award from the Arthritis Foundation at its annual Corks and Forks Gala on April 26. This award was presented "in honor of Dr. Hochberg's major contributions and achievements in research that have advanced the mission of the Arthritis Foundation."



Marc Hochberg, MD, MPH



Misbah Khan, MD, MPH

❖ **Misbah Khan, MD, MPH**, clinical professor, department of pediatrics, was awarded the 2013 Job Lewis Smith Award, recognizing lifelong outstanding service in community pediatrics. The award is presented to a pediatrician with a history of significant career achievements in community pediatrics. Nominees will have a demonstrated history of achievements in one or more of the following areas: community pediatrics practice, research, advocacy, and training.

❖ **John Olson, Jr., MD, PhD**, the Campbell and Jeanette Plugge Professor, department



John Olson, Jr., MD, PhD

of surgery, was inducted into the American Surgical Association (ASA) in April. Members are inducted into the ASA after a rigorous review of credentials and professional achievements by a selection committee. Membership in the ASA is reserved for the brightest and most influential general surgeons in the nation. ASA was founded in 1880 and is the nation's oldest and most prestigious surgical organization.

❖ **Christopher Plowe, MD, MPH**, professor, department of medicine, received an award for "Outstanding Work in Science as Related to Medicine" from the American College of Physicians. Past recipients of this prestigious award have included several Nobel Laureates and other science luminaries such as Sir Hans Krebs, Harold Varmus, Luc Montagnier and Francis Collins.



Christopher Plowe, MD, MPH

❖ Thirteen faculty of the department of pediatrics were named "Super Doctors" of Washington, DC (Maryland, Metro and Northern Virginia) by the Super Doctors website. Super Doctors are ranked in the top 5 percent of physicians in the region. Rankings are determined by comparing scores in ten indicators of peer recognition and professional achievement. The honorees are: **Cynthia Bearer, MD, PhD**, professor; **Curt Civin, MD**, professor; **Debra Counts, MD**, associate professor; **Steven Czinn, MD**, professor and chair; **Peter Gaskin, MBBS**, assistant professor; **Jack Gladstein, MD**, professor; **Virginia Keane, MD**, associate professor; **Anupama Kewalramani, MD**, assistant professor; **Karen Kotloff, MD**, professor; **Anayansi Lasso-Pirot, MD**, assistant professor;

Geoffrey Rosenthal, MD, PhD, professor; **Rose Viscardi, MD**, professor; and **Teresa York, MD**, assistant professor. In addition, four other faculty members in the department were named as "Rising Stars"—doctors who have been in practice 10 years or less who ranked in the top 2.5 percent in the region according to category indicators. These honorees are: **Alicia Chaves, MD**; **Jason Custer, MD**; **Matthew Laurens, MD, MPH**; and **Hyung (David) Woo, MD**, all of whom are assistant professors.

Book/Textbook Publications

❖ **Laurel Kiser, PhD**, associate professor, department of psychiatry, co-authored *Helping Traumatized Families, 2nd edition*, published by Routledge in January 2013.



Laurel Kiser, PhD

Grants & Contracts*

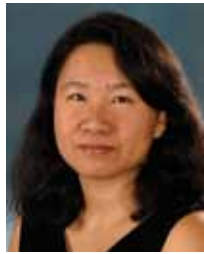
❖ **Eugene Albrecht, PhD**, professor, department of obstetrics, gynecology & reproductive sciences, received a four-year \$2.43 million R01 research grant from the NIH National Institute of Diabetes and Digestive and Kidney Diseases for "Primate Fetal Adrenal Development: Impact on Physiological Processes After Birth." Albrecht and his team will study the impact of estrogen deprivation during primate pregnancy on the development of



Eugene Albrecht, PhD

insulin insensitivity in offspring after birth. The study highlights the consequences of estrogen deprivation in human pregnancy (i.e. premature birth or exposure to endocrine disruptors), in increasing the risk of developing type 2 diabetes in offspring after birth.

❖ **Eileen Barry, PhD**, professor, department of medicine and center for vaccine development, received a three-year, \$1,933,919 R01 grant from the National Institute of Allergy and Infectious Diseases for "Advancement of a Defined, Protective, Live Attenuated Tularemia Vaccine."



Yen-Pei Christy Chang, PhD

❖ **Yen-Pei Christy Chang, PhD**, associate professor, department of medicine, was awarded a five-year, \$2,440,000 R01 from the National Heart, Lung, and Blood Institute for "Genetic and Functional Analyses of Hypertension Susceptibility Genes."

❖ **Wei Lu, PhD**, assistant professor, department of radiation oncology, received a four-year, \$1,274,052 R01 grant from the National Cancer Institute at NIH for "Quantitative PET/CT Analysis to Improve Evaluation of Tumor Response."



Wei Lu, PhD

Co-investigators include **Hao (Howard) Zhang, PhD**, instructor; **Warren D'Souza, PhD**, associate professor; **Steven Feigenberg, MD**, professor; and **Mohan Suntharalingam, MD**, professor, all from the department of radiation oncology; and **Wengen Chen, MD, PhD**, assistant professor; **Seth Kligerman, MD**, assistant professor; and **Mark Smith, PhD**, associate professor, all from the department of diagnostic radiology & nuclear medicine.

❖ **Joseph Stains, PhD**, assistant professor, department of orthopaedics, was awarded a five-year, \$1.1 million NIH R01 research grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases for his research on "Regulation of Osteoblast Differentiation and Function by Connexin 43."



Stefanie Vogel, PhD

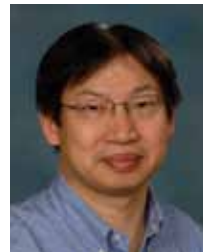
Therapeutic for Influenza," from NIH's National Institute of Allergy and Infectious Diseases.

❖ **Zeljko Vujaskovic, MD, PhD**, professor, department of radiation oncology,

❖ **Stefanie Vogel, PhD**, professor, department of microbiology & immunology, was awarded a four-year, approximately \$3.4 million grant entitled "Eritoran (E5564), A TLR4 Antagonist, As a Novel



Zeljko Vujaskovic, MD, PhD



Lai-Xi Wang, PhD

received a five-year, \$2,619,370 award from NIAID for "Mitigation of Radiation-Induced Pulmonary Injury With Nrf2 Activator."

❖ **Lai-Xi Wang, PhD**, professor, department of biochemistry & molecular biology, received a four-year, \$1.2 million R01 grant from the NIH for "Convergent Chemoenzymatic Synthesis of Glycopeptides and Glycoproteins."

This project will focus on glycosylation engineering of therapeutic glycoproteins to improve their therapeutic efficacy. 🏛️

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Each year the Medical Alumni Association publishes its honor roll of donors in the fall *Medicine Bulletin*. Included is the John Beale Davidge Alliance, a permanent recognition society for donors of \$10,000 and above, and contributors to the annual fund between July 1, 2012 and June 30, 2013. The Medical Alumni Association of the University of Maryland, Inc., and University of Maryland School of Medicine gratefully acknowledge your support!

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The John Beale Davidge Alliance is a permanent recognition society for major donors of the University of Maryland School of Medicine. Established in 1978, the Alliance is named in memory of Dr. John Beale Davidge, the medical school's founder and first dean who in 1812 raised the necessary capital to fund construction of the school's first medical building. The society includes alumni, faculty, and friends of the medical school.

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 1939
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 1941
 Gene A. Croce
 1943D
 W.N. Corpening
 Cliff Ratliff Jr.
 1943M
 Harry Cohen
 Jose M. Torres-Gomez
 Robert E. Wise
 1945
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 William A. Holbrook
 Leonard T. Kurland
 Daniel B. Lemen
 Henry F. Maguire
 John J. Tansey
 1946
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 1948
 John R. Hankins
 1949
 Nathan Schnaper
 1951
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 1952
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 1955
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 Joseph W. Cavallaro
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 1956
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1941

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1942

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Eli Galitz
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The John Beale Davidge Alliance

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2014 Awards Nominations!

Alumni, faculty, and friends are invited to send in their nominations for two MAA-sponsored awards by November 1, 2013. The Honor Award & Gold Key is presented to a living graduate for outstanding contributions to medicine and distinguished service to mankind. Factors considered in the selection process include impact of accomplishments, local, national, and international recognition, supporting letters, and publications. The Distinguished Service Award is presented for outstanding service to the Medical Alumni Association and University of Maryland School of Medicine. The awards are to be presented during the annual Reunion Recognition Luncheon on Friday, May 2, 2014. Letters of nomination for both awards must include a curriculum vitae and should be addressed to:

Janet M. O'Mahony, '91
Chair, MAA Awards Committee
522 W. Lombard Street, Baltimore, MD 21201-1636
or emailed to: maa@medalummi.umaryland.edu



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1997

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1998

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1999

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Honor Roll 2013

Honor Roll

The following made gifts to the Medical Alumni Association between July 1, 2012 and June 30, 2013.

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Number of Donors: 1
Participation: 50%
Total Contributions: \$1,000.00
Average Gift: \$1,000.00

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1939

Number of Donors: 1
Participation: 33.33%
Total Contributions: \$1,000.00
Average Gift: \$1,000.00

Elizabeth B. Cannon-Hall

1941

Number of Donors: 1
Participation: 33.33%
Total Contributions: \$100.00
Average Gift: \$100.00

Franklin E. Leslie

1942

Number of Donors: 1
Participation: 50.00%
Total Contributions: \$500.00
Average Gift: \$500.00

Louis H. Shuman

1943M

Number of Donors: 1
Participation: 20.00%
Total Contributions: \$100.00
Average Gift: \$100.00

David B. Gray

1943D

Number of Donors: 3
Participation: 25.00%
Total Contributions: \$400.00
Average Gift: \$133.33

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William M. Harris

1944

Number of Donors: 4
Participation: 30.77%
Total Contributions: \$500.00
Average Gift: \$125.00

Wilbur H. Foad
Philip H. Lerman
Sarah Taylor Morrow
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1945

Number of Donors: 5
Participation: 50.00%
Total Contributions: \$2,725.00
Average Gift: \$545.00

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John M. Dennis
Helen E. Greenleaf
Allen J. O'Neill
Oliver P. Winslow Jr.

1946

Number of Donors: 7
Participation: 33.33 %
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Average Gift: \$314.29

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Sidney G. Clyman
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John R. Gamble
Charles W. Hawkins
Clinton W. Stallard Jr.
James A. Vaughn Jr.

1947

Number of Donors: 6
Participation: 22.22%
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Average Gift: \$125.00

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1948

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Participation: 59.09%
Total Contributions: \$5,235.00
Average Gift: \$402.69

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James Bisanar
Elisabeth McCauley Brumback
Leonard H. Golombek
Lee N. Kastner
Charles H. Lithgow
Albert M. Powell
Benson C. Schwartz
John R. Shell
Allen D. Tate Jr.
Frank J. Theuerkauf Jr.
James T. Welborn
John D. Wilson

1949

Number of Donors: 7
Participation: 35.00%
Total Contributions: \$4,071.24
Average Gift: \$581.61

Leonard Bachman
Joseph Wm. Belkin

Harry W. Gray
Robert R. Rosen
Meredith P. Smith
Edward W. Stevenson
John F. Strahan

1950

Number of Donors: 15
Participation: 45.45%
Total Contributions: \$3,665.00
Average Gift: \$244.33

William A. Andersen
H. H. Bleecker Jr.
L. Guy Chelton
Miriam S. Daly
Leonard L. Deitz
Stanley W. Henson, Jr.
Grace Hofsteter
Frank T. Kasik, Jr.
Evangeline M. Poling
Louis F. Reynaud
Virginia Gould Reynaud
Henry H. Startzman Jr.
Elizabeth Stockly
Harriet H. Wooten
William H. Yeager

1951

Number of Donors: 8
Participation: 29.63%
Total Contributions: \$3,000.00
Average Gift: \$375.00

Winston C. Dudley
Nancy B. Geiler
Benjamin D. Gordon
Dorris M. Harris
David M. Kipnis
Marvin J. Rombro
Armando Saavedra
John T. Scully

1952

Number of Donors: 20
Participation: 55.56%
Total Contributions: \$58,065.00
Average Gift: \$2,903.25

Charles G. Adkins
Richard E. Ahlquist Jr.
Timothy D. Baker
Lawrence D. Egbert
Lee W. Elgin Jr.
Jack Fine
C. Edward Graybeal
William R. Greco
Laurel V. M. Hunter
Irvin Hyatt
Frank M. Kline
Irving Kramer
Morton M. Krieger
William A. Mathews
Malcolm L. Robbins
Bella F. Schimmel
Richard A. Sindler
Bryan P. Warren Jr.

Howard N. Weeks
Donald A. Wolfel

1953

Number of Donors: 16
Participation: 42.11%
Total Contributions: \$15,800.00
Average Gift: \$987.50

Joseph R. Bove
David E. Bulluck Jr.
Thomas J. Burkart
Charles F. Carroll Jr.
Harry L. Eye
John W. Heisse
Thomas F. Herbert
Charles F. Hess
Werner E. Kaese
William S. Kiser
Benjamin Lee
Rafael Longo
John W. Metcalf
James E. Might
George H. Miller
George C. Peck

1954

Number of Donors: 26
Participation: 59.09%
Total Contributions: \$6,050.00
Average Gift: \$232.69

Jean M. C. O'Connor
A. Gibson Packard
David H. Patten
Miguel Perez-Arzola
Marshall A. Simpson
Jean B. Smith
Thorlief L. Stangebye
Ira N. Tublin
George Wall
Arthur V. Whittaker
Robert E. Yim

1955

Number of Donors: 18
Participation: 40.91%
Total Contributions: \$6,865.00
Average Gift: \$381.39

Eugenio E. Benitez
Roderick E. Charles
James M. Close
Theodore A. Dann
Donald H. Dembo
Vernon M. Gelhaus
Henry Booth Higman
Paul C. Hudson
Walter E. James
Murray M. Kappelman
William P. Keefe
C. Ronald Koons
Mort D. Kramer
William F. Krone Jr.
Richard F. Leighton

Classes with the Highest Average Gifts

1952	\$2,903.25
1966	\$1,392.51
1976	\$1,056.50
1973	\$1,020.47
1938	\$1,000.00
1939	\$1,000.00

Arthur Baitch
George Bauernschub
Herbert L. Blumenfeld
Stuart M. Brown
Arthur G. Edwards
Morton J. Ellin
Robert H. Ellis
Norman Forrest
Daniel H. Framm
Charles J. Hammer Jr.
Robert C. Holcombe
Thomas E. Hunt Jr.
Edward S. Klohr Jr.
Herbert J. Levin
Hilbert M. Levine

Leonard J. Morse
Joan Raskin
Albert M. Sax

1956

Number of Donors: 25
Participation: 43.86%
Total Contributions: \$9,530.00
Average Gift: \$381.20

Robert T. Adkins
Robert J. Byrne
James Castellano Jr.
Thomas H. Collawn
Giraud V. Foster

J. Henry Hawkins
 Robert N. Headley
 Albert V. Kanner
 Scheldon Kress
 Joseph G. Lanzi
 Carl P. Laughlin
 Gerald N. Maggid
 Robert J. Mahon
 Herbert M. Marton
 Joseph S. McLaughlin
 John F. Nowell
 Marvin S. Platt
 Richard L. Plumb
 Irvin P. Pollack
 G. Edward Reahl Jr.
 Harold I. Rodman
 Charles Sanislow
 Virginia T. Sherr
 John Z. Williams
 Harry D. Wilson Jr.

1957

*Number of Donors: 21
 Participation: 39.62%
 Total Contributions: \$6,760.00
 Average Gift: \$321.90*

Charles Allen
 James K. Bouzoukis
 Mary C. Burchell
 Joseph O. Dean Jr.
 Sebastian J. Gallo
 Nicholas Garcia
 Allen S. Gerber
 Anthony F. Hammond Jr.
 Paul K. Hanashiro
 Harold J. Hettleman
 Robert O. Hickman
 Joseph C. Laughlin
 George A. Lentz
 Herbert H. Nasdor
 William J. Rappoport
 George W. Rever
 Landon Clarke Stout
 Nevins W. Todd Jr.
 Michael S. Trupp
 Ray A. Wilson
 Leonard M. Zullo

1958

*Number of Donors: 19
 Participation: 35.19%
 Total Contributions: \$9,260.00
 Average Gift: \$487.37*

George R. Baumgardner
 Elliott M. Berg
 Robert E. Cranley Jr.
 Gilbert B. Cushner
 Ronald L. Diener
 Stanley N. Farb
 Harvey L. Friedlander
 Frank P. Greene
 John S. Harshey
 Albert F. Heck
 William J. Hicken
 Richard H. Keller
 Howard S. Levin
 Joseph A. Mead Jr.
 Maurice M. Reeder
 Charles E. Silberstein
 Raymond E. Swanson
 Jerome Tilles
 William T. Ward

1959

*Number of Donors: 21
 Participation: 43.75%
 Total Contributions: \$14,725.00
 Average Gift: \$701.19*

Gerson Asrael
 William N. Cohen
 Robert J. Dawson
 W. F. Falls Jr.
 Franklin A. Hanauer
 Gilbert H. Isaacs
 August D. King Jr.
 Marvin M. Kirsh
 Martin S. Kleinman
 William Kraut
 Richard C. Lang
 Jose Oscar Morales
 J. Rollin Otto
 William E. Rhea
 Ramon F. Roig Jr.
 Howard J. Rubenstein
 C. Edmund Rybczynski
 Daniel S. Sax
 Beverly J. Stump
 George S. Trotter
 Hans R. Wilhelmson

1960

*Number of Donors: 29
 Participation: 46.77%
 Total Contributions: \$28,233.30
 Average Gift: \$973.56*

Aristides C. Alevizatos
 Lawrence F. Awalt
 Leonard P. Berger
 Donald W. Datlow
 Michael J. Fellner
 Julio E. Figueroa
 Alvin Glass
 Wilson A. Heefner
 Ronald E. Keyser
 Philip M. La Mastra
 Richard C. Lavy
 John C. Morton
 Allen R. Myers
 Fortune Odendhal IV
 Selvin Passen
 Jerome M. Reed
 Neil A. Robinson
 Clinton L. Rogers
 Jerome Ross
 Elijah Saunders
 Bernice Sigman
 Emanuel H. Silverstein
 George I. Smith Jr.
 Morton E. Smith
 W. E. Standiford
 Martha E. Stauffer
 Nathan Stofberg
 Michael S. Tenner
 Theodore Zanker

1961

*Number of Donors: 28
 Participation: 44.44%
 Total Contributions: \$9,500.00
 Average Gift: \$339.29*

Andres Acosta-Otero
 George E. Bandy
 Carl F. Berner
 Oscar H. L. Bing

Classes with the Highest Percentage of Donors

1948	59.09%
1954	59.09%
1952	55.56%
1938	50.00%
1942	50.00%
1945	50.00%

Anthony R. Boccuti
 Thomas G. Breslin
 Milton H. Buschman
 Ronald L. Cain
 Robert A. Fink
 W. R. Fleming Jr.
 Carlos E. Girod
 Leonard W. Glass
 Jay S. Goodman
 Samuel H. Henck
 Gerald A. Hofkin
 Richard G. Holz
 Carlos E. Ifarraguerri
 Gerald C. Kempthorne
 David E. Litrenta
 Thomas J. McGeoy Jr.
 Robert J. Myerburg
 Michael B. A. Oldstone
 David L. Rosen
 Richard M. Sarles
 Richard F. Schillaci
 Thomas M. Sonn
 Larry G. Tilley
 George E. Urban Jr.

1962

*Number of Donors: 27
 Participation: 37.50%
 Total Contributions: \$9,991.50
 Average Gift: \$370.06*

Raymond D. Bahr
 J. Fred Baker
 C. Gottfried Baumann
 Merrill I. Berman
 Louis C. Breschi
 Bruce D. Broughton
 Louis R. Caplan
 Jon B. Closson
 Alan Bernard Cohen
 Hammond J. Dugan III
 Paul G. Ensor
 Frederick S. Felsler
 Herbert Gaither
 William T. Johnstone
 Bernard S. Karpers
 Paul A. Kohlhepp
 Melvin D. Kopilnick
 Alan B. Lachman
 Johnson Ling
 Ted C. Patterson
 Donald David Pet
 Phyllis K. Pullen
 W. H. Sotheron Jr.
 R. R. Stephenson
 Arthur W. Traum
 William B. Weglicki Jr.
 William H. Wood Jr.

1963

*Number of Donors: 30
 Participation: 46.88%
 Total Contributions: \$25,890.00
 Average Gift: \$863.00*

Robert M. Beazley
 Richard J. Belinic
 Nijole B. Carozza
 Stephen P. Cohen
 Peter C. Fuchs
 Leland M. Garrison
 B. Robert Giangrandi
 Donald H. Gilden
 Richard L. Goldman
 Joel S. Gordon
 Michael G. Hayes
 D. Robert Hess Jr.
 Thomas V. Inglesby
 Philip A. Insley Jr.
 Paul F. Kaminski
 Merrill M. Knopf
 Michael L. Levin
 Eric E. Lindstrom
 Kenneth G. Magee
 Barbara A. McLean
 Stanley L. Minken
 Janet E. Mules
 Norman B. Rosen
 Benjamin B. Rubinstein
 Alice M. S. Shannon
 Mitchell C. Sollod
 Chris P. Tountas
 Frank J. Travisano
 Edward C. Werner
 Aron Wolf

1964

*Number of Donors: 32
 Participation: 47.76%
 Total Contributions: \$8,135.00
 Average Gift: \$254.22*

Sigmund A. Amitin
 Michael N. Ashman
 L. Bradley Baker
 Larry Becker
 Rima L. Brauer
 Miriam L. Cohen
 Donald A. Deoinlein
 Frank M. Detorie
 Robert L. Gingell
 Lee E. Gresser
 Rosalind P. Kaplan
 Ellen Ann Kingsbury
 Mark E. Krugman
 Donald T. Lewers

D. V. Lindenstruth
 Ruth E. Luddy
 Edgar V. McGinley
 M. S. Michaelis
 Joel S. Mindel
 David M. Nichols Jr.
 Thomas J. Porter
 Jose D. Quinones
 Jerome P. Reichmister
 Barry N. Rosenbaum
 Allen D. Schwartz
 Perry S. Shelton
 Richard G. Shugarman
 Lawrence F. Solomon
 Gershon J. Spector
 Harold C. Standiford
 Robert E. Stoner
 Jonathan D. Tuerk

1965

*Number of Donors: 29
 Participation: 37.33%
 Total Contributions: \$12,015.00
 Average Gift: \$429.11*

Verner Albertsen
 Brian J. Baldwin
 D. Gary Benfield
 John C. Dumler Jr.
 Allen A. Frey
 Ronald Goldner
 William M. Gould
 R. L. Handwerker
 David R. Harris
 Charles S. Harrison
 Frederick S. Herold
 John C. Hisley
 Allen H. Judman
 Allan S. Land
 Susan H. Mather
 John W. Maun
 Carlos R. Mendez-Bryan
 George Peters
 Jeffrey E. Poiley
 Donald Cornelius Roane
 S. L. Sattenspiel
 G. C. Sjolund, Jr.
 Larry A. Snyder
 John M. Steffy
 Louis E. Steinberg
 Fred N. Sugar
 Elliot S. Tokar
 Philip Joseph Whelan

1966

*Number of Donors: 48
 Participation: 49.48%
 Total Contributions: \$66,840.43
 Average Gift: \$1,392.51*

Jay Martin Barrash
 Arnold S. Blaustein
 Walter M. Braunohler
 Mark J. Brown
 Michael P. Buchness
 Charles H. Classen
 Henry S. Crist
 Philip B. Dvoskin
 William D. Ertag
 Richard L. Flax
 Gary A. Fleming
 Dwight N. Fortier
 J. M. France Jr.
 George E. Gallahorn
 Richard S. Glass

Honor Roll 2013

Honor Roll

Dennis H. Gordon
Stephen F. Gordon
Dean H. Griffin
Diane Acker Haber
Michael J. Haney
William O. Harrison
J. M. Hawkins Jr.
Thomas M. Hill
Elizabeth C. Hosick
Larry T. Ingle
Franklin L. Johnson
Ronald H. Koenig
Stephen Machiz
Joseph B. Marcus
William J. Marek
William T. Mason
Jane C. McCaffrey
Albert T. Miller
Allan J. Monfried
Gary D. Plomnick
C. Downey Price

Arthur L. Hughes
John S. Ignatowski
Michael A. Kaliner
Eugene F. Kester
George A. Lapes
Stuart H. Lessans
Richard H. Mack
Sheldon L. Markowitz
Alan H. Mitnick
Fred R. Nelson
Edward B. Ostroff
A. Z. Paritzky
Jean Posner
John F. Rogers
John R. Rowell
John C. Sewell
David M. Snyder
Robert A. Sofferman
John R. Stephens
Larry J. Warner
Allan M. Wexler

Classes with the Highest Gift Totals

1966	\$66,840.43
1952	\$58,065.00
1973	\$43,880.00
1976	\$42,260.00
1960	\$28,233.30

James A. Quinlan
Dudley Allen Raine Jr.
Richard H. Reed
Ernesto Rivera
Richard D. Shuger
Irvin M. Sopher
James W. Spence
John E. Steers
David J. Steinbauer
Jeffrey S. Stier
Beresford M. Swan
Stuart H. Yuspa

1967

Number of Donors: 34
Participation: 37.36%
Total Contributions: \$13,375.00
Average Gift: \$393.38

Elizabeth A. Abel
John A. Bigbee
William F. Bloom
Colvin C. Carter
Francis D. Drake
Harris J. Feldman
Henry Feuer
Robert O. France
John Wm. Gareis
Joseph S. Gimbel
Joel H. Goffman
James L. Hamby
Robert W. Hertzog

1968

Number of Donors: 37
Participation: 34.58%
Total Contributions: \$24,326.90
Average Gift: \$657.48

Charles R. Beamon Jr.
Sheldon B. Bearman
Barry A. Blum
Morton B. Blumberg
Robert Brull
Joseph F. Callaghan Jr.
Elliot S. Cohen
Charles C. Edwards
Allen C. Egloff
Gerald B. Feldman
Kenneth E. Fligsten
John G. Frizzera
John D. Gelin
Ronald S. Glick
George F. Hyman
James G. Kane
Frank A. Kulik
Charles J. Lancelotta Jr.
Philip Littman
Stanford H. Malinow
Karl F. Mech, Jr.
H. E. Mendelsohn
Anthony L. Merlis
Bruce L. Miller
Carl G. Quillen
Joel Wm. Renbaum
David J. Riley

Stephen D. Rosenbaum
Charles S. Samorodin
Barry J. Schlossberg
Howard Semins
Wilfred B. Staufer
Alice Susan Tannenbaum
P. J. Vergne-Marini
Stanley R. Weimer
Stuart Winakur
Edward J. Young

1969

Number of Donors: 42
Participation: 37.17%
Total Contributions: \$12,202.33
Average Gift: \$290.53

Mark M. Applefeld
Edward E. Aston IV
J. O. Ballard III
Emile A. Bendit
Barry B. Bercu
Sanders H. Berk
John C. Blasko
Roberta M. Braun
Stan Brull
Donald Wm. Bryan
Paul J. Connors
Howard A. Davidov
Ronald L. Elson
Richard E. Fisher
Donna L. Gibbas
Graham Gilmer III
Samuel D. Goldberg
Roy R. Goodman
Marvin J. Gordon
Constance L. Holbrook
Reynold M. Karr
Ronald A. Katz
Felix L. Kaufman
Daniel J. Ladd
M. L. Margolis
C. W. McCluggage
John R. McCormick
Michael E. McCutcheon
Wayne H. Parris
Robert W. Phillips
Harry Rabinovich
David R. Richmond
Brian S. Saunders
Ronald L. Schneider
W. Winslow Schrank
John W. Shaffer
David M. Shobin
William I. Smulyan
David H. Snyder
David A. Solomon
Kristin Stueber
Kenneth C. Ullman

1970

Number of Donors: 33
Participation: 30.00%
Total Contributions: \$18,114.00
Average Gift: \$548.91

Arthur O. Anderson
David H. Berkeley
Martin Braun
John P. Caulfield
Leo A. Courtney III
Joseph H. Cunningham Jr.
Joseph N. Friend
Julian A. Gordon
Michael A. Grasso

Stephen B. Greenberg
William D. Hakkarinen
Louis S. Halikman
Kenneth M. Hoffman
Whitney Houghton
Michael Kilham
Bennett L. Lavenstein
Philip A. Mackowiak
C. B. Marek, Jr.
Joseph P. Michalski
Thomas P. Miles
Lawrence Mills Jr.
James S. Murphy
Leslie P. Plotnick
R. B. Pollard Jr.
Gerald M. Rehert
Walker L. Robinson
Robert F. Sarlin
Louis A. Shpritz
Gregory T. Sobczak
Ronald J. Stanfield
Arthur M. Warwick
Charles I. Weiner
S. M. Zaborowski

1971

Number of Donors: 31
Participation: 28.18%
Total Contributions: \$27,740.00
Average Gift: \$894.84

Peter W. Beall
Brian M. Benson Jr.
George H. Brouillet
Ronald Paul Byank
Michael R. Camp
Daniel L. Cohen
Larry I. Corman
Steven A. Feig
Burton J. Glass
Robert B. Greifinger
Gary A. Grosart
Peter M. Hartmann
C. F. Hobelmann Jr.
Gwynne L. Horwits
Jerald Kay
John B. Kramer
William R. Linticum
Jack S. Lissauer
Michael J. Maloney
R. Henry Richards
Donald M. Rocklin
Paul T. Rogers
Henry G. Sacks
JoAnn C. C. Santos
Michael J. Schultz
Ralph E. Seligmann
Robert E. Sharrock
Panayiotis L. Sitaras
Marshall K. Steele III
Kerry J. Thompson
C. T. Woolsey Jr.

1972

Number of Donors: 34
Participation: 26.77%
Total Contributions: \$16,251.75
Average Gift: \$477.99

Jack J. Applefeld
Robert J. Bauer
Roy C. Blank
Elizabeth R. Brown
Howard Caplan

Walter H. Dorman
Joyce I. Ellis
C. Thomas Folkemer
Darryl J. Garfinkel
Michael E. Golembieski
John C. Harris
Richard B. Kline
Mark J. LeVine
William Merritt
George A. Metzger
Joseph D. Moser
John A. Niziol
John M. O'Day
M. R. Petriella
Martin S. Rosenthal
Richard H. Sherman
H. Hershey Sollod
Thomas J. Toner Jr.
Peter D. Vash
Dean L. Vassar
Jerald P. Waldman
Eliot M. Wallack
Howard J. Weinstein
Robert B. Whitney
Thomas V. Whitten
Richard H. Wingert
Celeste L. Woodward
Lyn J. Yaffe
Edgardo L. Yordan Jr.

1973

Number of Donors: 43
Participation: 36.44%
Total Contributions: \$43,880.00
Average Gift: \$1,020.47

Bruce L. Beck
Jeffrey C. Blum
Thomas Calame
Charles R. Clark
W. Edwin Conner
Edwin A. Deitch
Gregory A. Denari
Michael J. Dodd
Steven H. Dolinsky
Raymond D. Drapkin
William R. Gaver
Nelson H. Goldberg
David A. Goldscher
David J. Greifinger
Steven J. Gross
David E. Herman
Mark Jacobs
Michael F. Jaworski
Erich Kim
Allen Wm. Kirchner Jr.
Merric D. Landy
Tom Lapsa
Margo Leahy
Jeffrey S. Lobel
Samuel V. Mace
A. Robert Masten
Elizabeth Feeney Masten
Harriet L. Meier
Clarence D. Miller
Morton C. Orman
Alfred J. Saah
Ronald A. Seff
Gregory B. Shankman
Gary M. Shapiro
Ronald F. Sher
Robert B. Stifler
Ira M. Stone
Ronald J. Taylor

Honor Roll

Harold Tucker
 Roberta S. Tucker
 Charles B. Watson
 Richard M. Weisman
 Alan L. Whitney

1974

Number of Donors: 39
Participation: 30.70%
Total Contributions: \$8,782.00
Average Gift: \$225.18

Lynn M. Billingsley
 Jeffrey P. Block
 Richard A. Block
 Alan L. Carroll
 James G. Chaconas
 R. P. Christianson
 Thomas C. Doerner
 Stephen B. Fleishman
 Daniel K. Foss
 Alan E. Gober
 Edward S. Gratz
 Charles A. Haile
 Charles M. Jaffe
 Ronald Kaplan
 Laslo E. Kolta
 Carole S. Kornreich
 Merral B. Lewis
 Stephen R. Matz
 Terrance P. McHugh
 James Jay McMillen
 Stephen E. Metzner
 Joel B. Miller
 Sheldon D. Milner
 Thomas M. Milroy
 Susan R. Panny
 Jeffrey Pargament
 Jay A. Phillips
 Clayton L. Raab
 James M. Raver
 Sue V. Raver
 Bruce L. Regan
 Michael E. Reichel
 Susan Kosnik Ross
 Edward N. Sherman
 Ernest G. Szechenyi
 Steven A. Vogel
 Emerson C. Walden Jr.
 Stephen N. Xenakis
 David L. Zisow

1975

Number of Donors: 44
Participation: 34.10%
Total Contributions: \$21,350.00
Average Gift: \$485.23

Charles E. Andrews
 James L. Atkins
 Robert J. Beach
 Jonathan D. Book
 James Joa Campbell
 John H. Carrill
 Karl W. Diehn
 L. Thomas Divilio
 Albert H. Dudley
 James R. Evans
 Louis Fox
 Albin W. Harris
 Darwin L. Hege
 Charles F. Hoesch
 Dorothy Shih Yi Hsiao
 Thomas F. Krajewski

Mary Lou Kramer
 Frank E. Long
 Edmund J. MacLaughlin
 Jeffrey L. Metzner
 Edward M. Miller
 Parry A. Moore
 Frank H. Morris
 Nicolette Orlando-Morris
 Kathryn A. Peroutka
 Jeffrey L. Quartner
 Sandra D. L. Quartner
 R. W. Reindollar
 Robert E. Roby
 John W. Rose
 Andrew B. Rudo
 Gary B. Ruppert
 Deborah J. Schumann
 James H. Somerville
 Ronald J. Spector
 Michael B. Stewart
 George A. Taler
 Richard L. Taylor
 Lloyd M. Van Lunen Jr.
 Robert A. Vegors
 Gary J. Waxman
 Michael E. Weinblatt
 Robert S. Willig

1976

Number of Donors: 40
Participation: 28.37%
Total Contributions: \$42,260.00
Average Gift: \$1,056.50

Timothy E. Bainum
 Steven M. Berlin
 Damian E. Birchess
 John W. Bowie
 Janet F. Brown
 William G. Brown
 Michael E. Cox
 Suzanne Ray Dixon
 Edward F. Driscoll
 Christopher Feifarek
 Ellen B. Feifarek
 William G. Flowers
 D. Stewart Ginsberg
 Allan S. Gold
 Christopher D. Gordon
 Ira E. Hantman
 Gary M. Jacobs
 Patricia D. Kellogg
 William D. King
 Harry Clarke Knipp
 Barry K. Levin
 Geoffrey B. Liss
 Dorothy K. MacFarlane
 James E. Mark

Arnold B. Merin
 W. Bruce Obenshain
 Murray D. Pearlman
 Gerald M. Rosen
 M. H. Rubenstein
 William F. Ruppel
 Melvin Sharoky
 Bruce A. Silver
 Gary L. Simon
 Lee S. Simon
 William B. Tauber
 Deborah F. Weber
 Sherry L. Werner
 Pamela A. Wilson
 Benjamin K. Yorkoff
 Arno L. Zaritsky

1977

Number of Donors: 43
Participation: 27.56%
Total Contributions: \$18,335.00
Average Gift: \$426.40

Katherine Ackerman
 Michael F. Adinolfi
 Stuart B. Bell
 Marc S. Bresler
 David E. Bright
 Robert J. Brumbach
 Elwood A. Cobey
 William Joseph Dichtel
 Rona B. Eisen
 Frederic T. Farra
 Richard J. Feldman
 Robert T. Fisher
 Elliot K. Fishman
 Donna L. Frankel
 Samuel D. Friedel
 Linda L. George
 Alan S. Gertler
 Doris S. Gertler
 Anne C. Goldberg
 Marlene T. Hayman
 Christopher F. James
 Ronald L. Kahn
 Sheldon H. Lerman
 Edgar Jonathon Lisansky
 Paul A. McClelland
 Ellis Mez
 John P. Miller III
 Edward B. Mishner
 Coleman A. Mosley
 Paul A. Offit
 Lee R. Pennington
 Steven H. Resnick
 Garry D. Ruben
 Richard B. Silver
 David Strobel

David D. Tinker
 Michelle D. Uhl
 Jonathan R. Walburn
 Bennett E. Werner
 Katherine C. White
 Richard J. Zangara
 Stephen M. Zemel
 Stuart A. Zipper

1978

Number of Donors: 33
Participation: 20.25%
Total Contributions: \$15,510.00
Average Gift: \$470.00

Robert E. Applebaum
 Charles Wm. Bennett
 Deborah J. Biller
 Steven Billet
 Edward N. Bodurian
 Howard Boltansky
 David E. Cohen
 Ira J. Kalis Cohen
 Louis J. Domenici
 Franklin M. Douglas
 John L. Fiore
 Andrew Paul Fridberg
 Marianne N. Fridberg
 Michael D. Gotts
 Cynthia L. Graves
 Richard H. Hallock
 M. J. Ichniowski
 Sandra S. Isbister
 David E. Kelley
 Elizabeth M. Kingsley
 Mark D. Lisberger
 Michael N. Macklin
 Stephen A. Metz
 Harvey S. Mishner
 Royann C. Mraz
 James F. Rooney
 Ronald J. Ross
 Robert S. Shayne
 Alex Sokil
 Ellen L. Taylor
 Stephen A. Valenti
 Neil E. Warres
 Randolph G. Whipps

1979

Number of Donors: 32
Participation: 19.75%
Total Contributions: \$19,427.34
Average Gift: \$607.10

Arthur E. Bakal
 Karen C. Carroll
 Burt I. Feldman
 Christopher S. Formal
 Scott D. Friedman
 Jeffrey D. Gaber
 Leon W. Gibble
 Peter E. Godfrey
 Charles I. Highstein
 Jan M. Hoffman
 Michael E. Hull
 Albert L. Jochen
 James W. Karesch
 Bernard F. Kozlovsky
 Richard A. Lebow
 Owen Lee
 Susan M. Levy-Strohm
 Bruce C. Marshall
 Bruce R. McCurdy

Robert E. Means Jr.
 Kathleen H. Miller
 Peter E. Rork
 Bruce Rosenberg
 R. Sierra-Zorita
 Michael J. Smith
 Nelson N. Stone
 David B. Tapper
 Elizabeth L. Tso
 Thomas B. Volatile
 Perri Laverson Wittgrove
 A. F. Woodward Jr.
 Kristen A. Zarfos

1980

Number of Donors: 60
Participation: 34.44%
Total Contributions: \$20,278.00
Average Gift: \$337.97

Donald E. Brown Jr.
 Francis K. Butler
 Wayne E. Cascio
 Jane L. Chen
 Kirk D. Cylus
 Dale K. Dedrick
 Craig A. Dickman
 Margaret Eby
 Judith Falloon
 James F. Fiastro
 Milford Mace Foxwell
 David B. Franks
 Cathy Powers Friedman
 Christine L. Galan
 Grace K. Gelletly
 Alan I. Gelman
 Marcia P. Goldmark
 Lee J. Helman
 Geoffrey R. Herald
 Marian F. Kellner
 Michael R. Kessler
 David S. Klein
 Anne D. Lane
 Charles E. Lee
 Mark D. Leeson
 Thomas E. Lipin
 John R. Livengood
 Robert Y. Maggin
 Teri A. Manolio
 Richard A. Marasa
 Karen J. Marcus
 John N. Margolis
 David J. Markowitz
 Margaret E. McCahill
 Timothy P. McLaughlin
 Steven M. Miller
 Judah A. Minkove
 Michael J. Moritz
 William J. Oktavec
 Eric M. Orenstein
 Keith D. Osborn
 David I. Otto
 Craig H. Paul
 Russell K. Portenoy
 Guy H. Posey
 Michael F. Pratt
 Kirby D. Rekedal
 James P. Richardson
 Roger J. Robertson
 W. Michael Rogers
 Robert L. Schiff
 Roy T. Smoot Jr.

Classes with Most Davidge Alliance Members

1975	30
1960	22
1970	21
1980	21
1966	18
1973	18

Honor Roll 2013

Victoria W. Smoot
Sally E. Sondergaard
Charles S. Specht
H. H. Startzman III
Henry W. Sundermier
Phuong D. Trinh
Emily A. Ulmer
Eric V. Van Buskirk

1981

*Number of Donors: 34
Participation: 20.60%
Total Contributions: \$11,657.35
Average Gift: \$342.87*

Joan L. Bielefeld
Benjamin F. Calvo
Candace I. Chandler
William Z. Cohen
Alice Magner Condro
Lloyd G. Cox II
Kevin J. Doyle
Paula Ehrlich
Daniel P. Ferrick
Neal M. Friedlander
Hope U. Griffin
Howard T. Jacobs
Brian H. Kahn
Joel S. Kahn
Edward Kelmenson
Karen R. Kingry
Mark C. Lakshmanan
Andrew M. Malinow
Gordon L. Mandell
Stephan C. B. Mann
Carol S. Marshall
Scott T. Maurer
Marc Okun
James L. Pertsch
Deborah R. Pollack
Donna L. Rinis
Howard N. Robinson
Howard L. Siegel
Gary H. Silber
Dina R. Sokal
Carl Sperling
Brian W. Wamsley
Edward C. Watters III
Samuel A. Yousem

1982

*Number of Donors: 27
Participation: 15.79%
Total Contributions: \$10,575.00
Average Gift: \$391.67*

Guillermo W. Arnaud
Wayne L. Barber
Kenneth A. Blank
Paul S. Brockman
Michael W. Brown
Charles Carroll
Joseph P. Connolly Jr.
Thomas W. Conway
Brian K. Cooley
Cynthia L. Costenbader
John M. DiGrazia
Patrick F. Gartland
Warren Gibbs
George E. Groleau
James D. Holt
Donald G. Hope

Ronald D. Jacobs
Constance J. Johnson
Bruce A. Kaup
Paul R. Miller
Andrew V. Panagos
Steven H. Parker
Daniel M. Perlman
Eliot L. Siegel
Marc H. Siegelbaum
Ellen A. Spurrer
Leon Strauss

1983

*Number of Donors: 44
Participation: 26.83%
Total Contributions: \$25,944.35
Average Gift: \$589.64*

Margaret C. Adams
Ali J. Afrookteh
Marc B. Applestein
Nancy Ashburn
Jeffrey J. Bernstein
George M. Boyer
Brenda M. Brandon
Harry A. Brandt
Monica A. Buescher
Michael A. Caplan
Blaise Chromiak
Protagoras N. Cutchis
George W. Daneker Jr.
Stephen W. Dejtter Jr.
Neil B. Friedman
Gerard J. Fulda
George Thomas Grace
Deborah L. Hebb
Charles E. Hendricks
James D. Herr
Thomas R. Hornick
David P. Johnson
Mary Jo Johnson
Victor F. King
Roy A. Kottal
Alan B. Kravitz
Michael K. McEvoy
Karen F. Meckler
Christopher M. O'Connor
Harry A. Oken
Nancy Prosser
Mark C. Regan
William G. Rudolph
Ronald N. Sakamoto
Sonia M. Saracco
Jeannine L. Saunders
Ronald H. Schuster
Robert B. Shochet
James R. Sides
M. Steve Sniadach Jr.
Stuart B. Taylor
Robert E. Walker
Emmanuel B. Walter Jr.
Barbara C. Williamson

1984

*Number of Donors: 37
Participation: 22.70%
Total Contributions: \$13,375.00
Average Gift: \$361.49*

Rodney Samuel Arthur
Roy E. Bands Jr.

Honor Roll

Donald M. Beckstead
Leonard S. Bloom
Gail S. Brook
Susan Robey Cafferty
John F. Cary
Ed O. Chambers III
John R. Downs
Lindsay Golden
Nanette M. Gormley
Heidi D. Gorsuch-Rafferty
Thomas E. Jordan
Leslie I. Katzel
N. W. Koutrelakos
Frederick E. Kuhn
Susan M. Lancelotta
David R. Lee
Brad D. Lerner
Lynn M. Ludmer
Dale R. Meyer

Mark J. Ehrenreich
Steven L. Friedman
David A. Gelber
Frederick M. Gessner
Daniel I. Ginsberg
Dean S. Glaros
Peter R. Gray
Robert C. Greenwell Jr.
Michael J. Hallowell
Charles S. Hames
Sharon M. Henry
Sean E. Hunt
Thomas Bryan Johnson
Jeffrey Jones
Marc A. Kaufman
Donald R. Lewis Jr.
Alan R. Malouf
David John Mauterer
Patricia B. Patterson

Brian J. Hasslinger
Craig D. Hochstein
Kelly Ann Hunter-Fanto
Elizabeth A. Janczur
Karen M. Kabat
Thomas E. Kelly
F. X. Kieliszek
Lee Allan Kleiman
Michele A. Klein-Trzkovich
Jan M. Koppelman
Dennis Kurgansky
Karen Anne Lavoie-Starr
Joseph Gregory Liberto
Marion P. Lomonico, Jr.
Marsh Randy McEachrane
Jeffrey Robert McLaughlin
Scott A. Milsteen
Gregory K. Morrow
David W. Oldach
Joan Ordman
Toby Ann Ritterhoff
Judith Lynn Rowen
John F. Rubin
Jonathan S. Schwab
Nadine B. Semer
Asad U. Sheikh
Nicholus Visnich
Mark J. Vocci
Kathryn H. Watt
Julia Ann Williams

1987

*Number of Donors: 22
Participation: 15.60%
Total Contributions: \$10,965.00
Average Gift: \$498.41*

Susan Goldberg Baruch
Mark D. Bullock
Henry J. Chen
John Gary Evans
Charles Patrick Fitch
Heidi L. Frankel
Richard Walter Freeman
Bruce David Greenwald
Elizabeth Roberta Hatcher
Kevin E. Hohl
Stephen L. Houff
G. Michael Maresca
Raymond W. Moy
Thomas B. Mulford
James Paul Nataro
Susan S. Nesbitt
Timothy D. Nichols
Yvonne Lynn Ottaviano
David C. Rubin
Shelly R. Stelzer
Daniel Liu Taylor
Thomas S. Wilson

1988

*Number of Donors: 26
Participation: 19.26%
Total Contributions: \$9,615.00
Average Gift: \$369.81*

David B. Aiello
Charles Berul
Joseph D. Bruzzese
Lois A. Carani
Thomas P. Carr
Carol C. Coulson
Paula A. DeCandido

Classes with the Highest Number of Donors

1980	60
1966	48
1975	44
1983	44
1973	43
1977	43
1986	43

Paul R. Ringelman
Peter J. Sabia
Leroy M. Schmidt
Martin L. Schwartz
Lurette S. Semmes
Matthew M. Shuster
Joshua Z. Sichel
Carmela A. Sofia
William G. Tan
Katherine D. Tobin
Timothy C. Trageser
Paul L. Tso
Helen E. Walker
Jeremy P. Weiner
Mitchell H. Weiss
Christopher J. Zajac

1985

*Number of Donors: 42
Participation: 25.77%
Total Contributions: \$16,113.57
Average Gift: \$383.66*

Ira S. Allen
Nicholas B. Argento
Susan K. Arisumi
Susan Barrows
Wendy J. Bergman
Joanna D. Brandt
Margaret O. Burke
Peter F. Burns
Rudolph C. Cane
Agnes O. Coffay

Michael Platto
David W. Porter
Hari C. Sachs
Sharon B. Samuels
S. J. Schoenfelder
Michael J. Sicuranza
Eric C. Sklarew
Laura A. Tang
Laszlo R. Trzkovich
Robert A. VanBesien
H. Von Marensdorff
Paul R. Weiner
Stephen P. Yeagle

1986

*Number of Donors: 43
Participation: 26.06%
Total Contributions: \$11,850.00
Average Gift: \$275.58*

Fouad Mahmoud Abbas
Marilyn F. Althoff
Stephanie Harris Applebaum
N. Eric Carnell
Eugenio Roberto Chinae
Eric J. W. Choe
Steven F. Crawford
Catherine Anne Daum
Stephen Michael Fanto
Barbara Burch Fleming
Scott William Fosko
Albert Sydney Hammond
Sangwoon Han

Honor Roll

Jose E. Dominguez
James V. Ferris
Brenda J. Forrest
Mark H. Fraiman
Nancy M. Hammond
Gregg L. Heacock
Abbott B. Huang
Jay C. Koons
Roger J. Levin
Carol A. McHugh
Richard D. Patten
Stephen M. Pomerantz
Jeffrey P. Ross
Gail M. Royal
David B. Schnitzer
Stanley Joonho Shin
Alane B. Torf
Raymond A. Wittstadt
Monford A. Wolf

1989

Number of Donors: 29
Participation: 20.28%
Total Contributions: \$8,560.00
Average Gift: \$295.17

John T. Alexander
Neri M. Cohen
J. William Cook IV
Steven R. Daviss
Mary Carmel Deckelman
Erin R. Drew
Brian John Eastridge
Marian V. Fleming
Clarita G. Frazier
Randolph B. Gorman
Niloufar Guiv
Ned H. Gutman
Ann S. Hagen
Stephen F. Hatem
Steven E. Hearne
Babak J. Jamasbi
Michael E. Lantz
Cheryl Dungan Leonard
Norman A. Lester
Joy L. Meyer
Jean Marie Naples
Mary E. Pagan
Merdad V. Parsey
David A. Riseberg
Lise K. Satterfield
David S. Scharff
David P. Smack
Patricia M. Sullivan
John N. Unterborn

1990

Number of Donors: 23
Participation: 17.04%
Total Contributions: \$10,705.00
Average Gift: \$465.43

Carolyn M. Apple
David H. Balaban
William Pierson Cook
Peter E. Darwin
John C. Davis Jr.
Karin M. Dodge
Maryrose F. Eichelberger
Carl E. Gessner
Marc S. Goldman
Mary K. Hoffman
Mark A. Mighell

Kenneth J. Oken
Martin I. Passen
Michael E. Rauser
Teresa Hoffman Rosen
Jeffrey Rosenfeld
Morris L. Scherlis
Dwayne T. Shuhart
Magesh Sundaram
James E. Thompson
Tuanh Tonnu
Marisa J. Werner
Brian M. Zimnitzky

1991

Number of Donors: 29
Participation: 20.56%
Total Contributions: \$4,886.00
Average Gift: \$168.48

Yared Aklilu
Renato G. Albaran
Michael Lynn Ault
Karen Elizabeth Brown
Elizabeth W. Capacio
Sally Bridgman Cheston
Beth Gail Diamond
Michael A. Dias
Kelly Lynne Fritz
Angela Sarah Guarda
Jennifer Hollywood
Thomas B. Kelso
Jeffrey Scott Masin
Lee Anne Matthews
Lorrie Regina Mello
Ari Nasser
Janet M. O'Mahony
Bertan Ozgun
John Michael Pabers
John Joseph Pagan
Zinon Mark Pappas
Martha Jane Pierce
Mary B. W. Porter
Cynthia Niemeyer Schaeffer
Christianne Schoedel
Linda E. Smiddy-Nelson
Kelly Smith
David Lee Taragin
Marjorie K. Warden

1992

Number of Donors: 27
Participation: 18.00%
Total Contributions: \$5,585.00
Average Gift: \$150.95

Eligio B. Aguhob Jr.
Linda Matsas Berger
Nechama Bernhardt
Catherine Booth Heilman
William Dubiel
Jeffrey Dubin
Annette Fineberg
Stuart Framm
David Gentry
Anthony H. Guarino
Jonathan Hamburger
Donna S. Hanes
Joseph C. Hsu
Todd Kihara
David Kossoff
Jonathan Krome
Jerome Lopez
Joseph L. Manley

Kendall Ann Marcus
Joyce Owens
Huong Pham
Lisa Kolste Rakowski
Ronald T. Rakowski
Monisha Deodhar Saste
Richard Heston Seidel
Joel Turner
Frederic Yeganeh

1993

Number of Donors: 23
Participation: 16.43%
Total Contributions: \$9,775.00
Average Gift: \$425.00

Steven Avezzano
Gregory M. Brouse
Susan Brouse
Angela Brown
Paulette Browne
Lisa Collazzo
Craig Colliver
Virginia Carangal Colliver
Kathryn M. Connor
Michael Cushner
Vinay K. Gupta
Marc Hamburger
Steven Hockstein
Barbara A. Hutchinson
Patricia Jett
Gregory Levickas
Andy Lieberman
Denis Lin
Gina Massoglia
Douglas Seeb
Susma S. Vaidya
Lore B. Wootton
Thomas H. Yau

1994

Number of Donors: 17
Participation: 13.82%
Total Contributions: \$4,720.00
Average Gift: \$277.65

Martine P. Adogu
Jeremy P. Finkelstein
Michelle A. Fontenelle-Gilmer
Demitrous Frazier
Stacy Dara Gittleson-Fisher
Thomas A. Hensing
Christopher S. Highfill
Deborah S. Hopkins
Claudia Krasnoff
Louis B. Malinow
Christopher P. Moore
Jay B. Penafiel
George A. Porter Jr.
Gail Fredericks Russell
Kenneth Sibila
Andrew Lawrence Smock
Eleni J. Solos-Kountouris

1995

Number of Donors: 23
Participation: 16.43%
Total Contributions: \$3,350.00
Average Gift: \$145.65

Melinda Battaille
Beth Marie-Arciprete Comeau
Kevin Dooley

Kim E. Goodsell
Gail Granof-Warner
Sanjay Jagannath
Meredith Josephs
Jana Kaplan-Fastow
Amsale Ketema
Mitesh Kothari
Katherine L. Layton
James Liszewski
Diana McClinton
Charlotte Harward Miller
William Lance Miller
Olayemi O. Osiyemi
Duke Pao
Theodore S. Takata
David Vroman
Deanna Vroman
Michael Warner
Scott Winiecki
Samuel Yoon

1996

Number of Donors: 25
Participation: 16.67%
Total Contributions: \$5,145.00
Average Gift: \$205.80

Christian Bounds
Rachel Burdick-Fissell
Lisa K. Cannada
Brian Cantor
Joy Collins
Michele Cooper
Marcia Cort
Teresa Cox
Stephen Fisher
Ellie Goldbloom
Carol Goundry
Janet Y. Higgins
Charles Brett Hofmann
Julie Hurlock
Sara Levin
Luis Llerena
Mary B. Martello
Lisa Miller
Robyn Miller
Jeanette Nazarian
Monica Sarang
Stephanie D. Silverman
Angela Delclos Smedley
Brenda Stokes
Walter Wojcik

1997

Number of Donors: 21
Participation: 13.73%
Total Contributions: \$5,230.00
Average Gift: \$249.05

Gregory Berman
Laurie Millar Bothwell
Ruwanthi Samaranyake
Campano
Chere Monique Chase
Regina Clark
Carol S. Cox
Kirk Foster
Rachelle Gajadhar
David Heydrick
Matthew Howie
Rachel Kramer
Lee Alexander Maddox
Thomas Maslen
Edward McCarron

Victoria C. Pierce
Elizabeth Reece
G. Anthony Reina Jr.
Debbie Spencer
Jane Wang
Eduards Ziedins
Matthew Zmurko

1998

Number of Donors: 23
Participation: 16.67%
Total Contributions: \$3,915.00
Average Gift: \$170.22

Paul E. Anderson
John T. Antoniadis
Aaron M. Bates
Brendan C. Berry
Mark G. Burnett
Michael R. Burton
Alexander M. Chudnovsky
John M. Cox
Jonathan E. Davis
Elizabeth D. Feldman
Anuj Gupta
Maryam Jaber
Erika S. Kenney
Thomas J. Kenney III
Jennifer C. Logan
Timothy J. McAveney
Otha Myles
Karen R. Raksis
Stasia S. Reynolds
Rachel Exelbert Schreiber
Drew J. White
Emily Cootauco White
Shannon J. Winakur

1999

Number of Donors: 21
Participation: 15.33%
Total Contributions: \$18,233.57
Average Gift: \$868.27

Laurel L. Bell
Rachel G. Burgan
Seth M. Cohen
Mara Y. Dinitis-Pensy
Leslie Emmert-Buck
Lenny Feldman
Robert D. Flint Jr.
Thomas D. Horst
Charlotte M. Jones-Burton
Andrew C. Kramer
Thomas P. McIntyre
Susan S. McLaughlin
James L. Medina
Thuy D. Ngo
Katherine H. Noe
Maurice N. Reid
Anne E. Rothman
Mark G. Saba
Lisa M. Soule
Mallory Williams
Alla Zilberman

2000

Number of Donors: 22
Participation: 15.71%
Total Contributions: \$2,990.00
Average Gift: \$135.91

Shelley-Anne M. Bailey
Leslie M. Belloso

Honor Roll 2013

Honor Roll

Morgen Bernius
Tamara L. Burgunder
Esther E. Elliott
Amy R. Evenson
Marjorie S. Fridkin
Riple J. Hansalia
Sharon E. Hen
Joseph M. Herman
Gerard J. Hogan
Robert Lenz
Melissa K. Levine
Allison P. Niemi
Claudia U. Pfeil
Milad L. Pooran
Matthew D. Sedgley
Rivka Y. Stein
Bradley J. Wasserman
Katherine N. Wex
Jianping Yang
Thomas Chizen Yu

2001

Number of Donors: 18
Participation: 14.52%
Total Contributions: \$4,375.00
Average Gift: \$243.06

Allison W. Brindley
Christopher Calabria
Rajwinder S. Deu
Darren Feldman
Josh S. Forman
Camille Hammond
Joseph G. Hobelmann
Elizabeth Ives
Jakub Kahl
Eric Klineberg
Barton F. Lane
Richard Mackey Jr.
Robert Pargament
Chinh N. Pham
Igor Poltinnikov
Shahrazad Tabibi
Kathy J. Weishaar
Marcie O. Wertlieb

2002

Number of Donors: 21
Participation: 15.44%
Total Contributions: \$2,045.00
Average Gift: \$97.38

Karen L. Bauer
Ron Brathwaite
Ealena Callender
Jenna Choi
Majid Cina
Steven Epstein
Eve Fields
Daphne Friedman
Walid Gellad
Erin Gibbons
Matthew Hamilton
Daniel Kauffman
Amy Kimball
Roderick B. Kreisberg
Dean Meadows
Eugenia C. Robertson
Keith Robinson
Charles A. Sansur

Matthew Smith
Elissa C. Thompson
David J. Wang

2003

Number of Donors: 22
Participation: 17.74%
Total Contributions: \$2,911.00
Average Gift: \$132.32

Jared R. Berkowitz
Stephanie Borum
Thomas C. Dean
Todd W. Flannery
Julia B. Flukinger
Sharla Hart
Bridget A. Hilliard
Jeffrey T. Hobelmann
Nathaniel L. Holzman
John B. Jackson
Erica Johnson
Hilary Koprowski II
Jason Lee-Llacer
Mohammed Manasawala
Milford H. Marchant Jr.
Darryn Potosky
Jill Rathyen
Karen M. Sutton
Ann G. Tseng
Tasios Vakkas
Judy Wang
Mark H. Wernick

2004

Number of Donors: 15
Participation: 10.95%
Total Contributions: \$1,545.00
Average Gift: \$103.00

Mark H. Davino
Richard Ericson
Anis Frayha
Robert J. Habicht
Elizabeth Chase Hall
Christine Hayes Wu
Allison K. Hobelmann
Christopher Hydorn
Anne Marie Kelly
Michael Perraut
Kathryn S. Robinett
Jonathan Rogers
Amy S. Rogstad
Jordan Wolff
Willis Wu

2005

Number of Donors: 17
Participation: 12.50%
Total Contributions: \$1,736.00
Average Gift: \$102.12

Patrick R. Aquino
Alexandra D. Bentley
Natalie M. Branagan
Jason R. Cornelius
Timothy J. DeCapite
Michelle A. Folsom
Christopher K. Grybauskas
Keri N. Jacobs
Bryan J. Loeffler

Janelle M. Martin
Nora C. Meenaghan
Marissa J. Perman
Gita Pillai
Jennifer Roth Maynard
Daniela B. Smith
Holly E. Spanier
Regina F. Wong

2006

Number of Donors: 24
Participation: 17.14%
Total Contributions: \$1,928.00
Average Gift: \$80.33

James Baronas
Christina Bennett-Fee
Kathryn E. Berryman
James Bresce
Brian Delligatti
Mark Domanski
Laurence M. Edelman
Julie Fifer
Neda Frayha
Adam D. Friedlander
Rachel E. Garvin
Katherine Goetzinger
Leah C. Jones
David Lundy
Elise A. Malecki
Jeffrey T. Mason
Timothy Owolabi
Tameka Pyles
Sandra Quezada
Mark Schneyer
Cathleen Sybert Khandelwal
Jennifer Timmons
Michael Weisburger
Pamela Winterberg

2007

Number of Donors: 19
Participation: 12.26%
Total Contributions: \$1,405.00
Average Gift: \$73.95

Megan Hyle DeCapite
Kathryn Gloyer
Joshua Holyoak
Elisa Knutsen
Amanda Kramer
Bradley Kramer
Abigail Lenhart
Susan Mabrouk
Thomas Merkle
Megan Niziol Alcock
Mercy Okoye
Tania Peters
Selina Read
Chanda Reese
Cedric Regelin
Troy Sofinowski
Jennifer Sri
Theodore Sung
John Vu

2008

Number of Donors: 22
Participation: 15.49%
Total Contributions: \$1,155.00
Average Gift: \$52.50

Jodi Krumrine Bond
Eric Buchner
David J. Carlberg
James Gardner
Sarah Hale
Jason J. Heavner
Nadine Himelfarb
George Kochman
Josephine Kweku
Elizabeth Lechner
Daniel Lerman
Lisa Letellier
Jessica D. Lewis
Maria B. Mainolfi
Jeffrey Mayer
Priscilla Nelson
Eric Orlovsky
Erica Richards
Laura Silverstein
Gregory Small
Erik Strauss
Andrew Young

2009

Number of Donors: 27
Participation: 19.42%
Total Contributions: \$725.00
Average Gift: \$26.85

Narlin Beaty
Philip Brazio
Caroline Butler
Kevin Carter
Ling-Xin Chen
Andrew Ditto
John Douglas
Meghan Dubina
Nicole Gloff
Lindsay B. Goicochea
Cullen Griffith
Linda Hall
William Ide
Janice Leahy
Ian Loper
Alexander MacArthur
Shavonne Massey
Leonie Prao
Kristin Powell Reavis
Tianbo Ren
Mary Rhodes
Zachary J. Roberts
Michael Santiago
Na Shen
Elizabeth Smelter
Semhar Tewelde
Ethan Weinberg

2010

Number of Donors: 36
Participation: 22.64%
Total Contributions: \$1,065.00
Average Gift: \$29.58

Ijeoma E. Akunyili
Mariam H. Ayub
Jamil Bashir
Veronica Bustillo-Aruca
Rebecca Carter
Jordan Celeste
Sarah Ciccotto
Sabrina P. Felton
Gerald Gantt

Niloofar Ghassemzadeh
Nidhi Goel
Paulina Gorney Brown
Michael Grant
David Griffith
John Haines
David Halpin
Christian Halvorson
Aaron Ilano
Daniel Kang
Lisa Kebejian
Nicholas Kessides
Daniel MacArthur
Jonas Nelson
Fernanda Porto Carreiro
Christina P. Prather
Thomas Reznik
Casey Rice
Sara Schwab
Donald Slack
Melanie K. Slack
Samantha Smith
Oliver Tannous
Bryon Tseng
Alison Ward
Shani Woolard
Zombor Zoltani

2011

Number of Donors: 28
Participation: 18.92%
Total Contributions: \$876.00
Average Gift: \$31.29

Lindsay Appel
Michael Chang
Consuelo David
Andrea Desai
Charles Evans
Paul Goodman
Joshua Harris
Andrea Hebert
Sarah Hobart
Jeffrey Keenan
Nancy Lentz
Samuel Livingston II
Peter MacArthur
Deesha Mago
Heather Mezzadra
Caleb Nannes
Thao Nguyen
Catherine Njathi
Jeremy Pollock
Charles Rutter
Adam Setren
Brian Shiu
Michael Shteyman
Allison Siegel
Kathleen Stephanos
Jeffrey Willis
Amir Zahir
YuanPu Zheng

2012

Number of Donors: 34
Participation: 22.67%
Total Contributions: \$800.00
Average Gift: \$23.53

Jordan L. Ambrose Margo
Janna Becker
John Bergquist
Earl Campbell III

Honor Roll

Honor & Homage

*Gifts were received in honor/memory
of the following:*

Blanche & Elijah Adams	Jean M. Jackson, '67
John E. Adams, '56	James P. Jarboe, '59
Larry Anderson, PhD	Dr. Gertrude Kornblau
Mark M. Applefeld, '69	Morton M. Krieger, '52
Anthony A. Bernard, '54	Mathew H. M. Lee, '56
Thomas P. Bigbee, '64	Judith Levin
Teresa Billet	Dr. Stephen Max
Dr. Cyrus Blanchard	David B. McIntyre, '55
Robert B. Bokar, '62	Jesse Mez, '06
Frank Borges '50	Paul G. Mueller, '55
Robert H. Breslin, '15	Jeff Noah Parri
Mitchell A. Cahan, MD, FACS	David H. Patten, '54
Frank Calia, MD, MACP	Larry Pitrof
Harold L. Daly, '50	Lois U. Plumb
John M. Dennis, '45	Edward F. Quinn, '69
Michael J. Dodd, '73	William Rappoport, '57
John C. Dumler, '32	Milson & Cathleen Raver
Dr. David Eitel	Roger & Nellie Reed
Gregory Emery, MD	Maurice M. Reeder, '58
Abraham Finkelstein, '27	Paul F. Richardson, '50
Harlan Firminger, MD	Ann Robinson '65
Dr. Leonard Frank	Harry Robinson Jr., MD
Jose R. Fuentes, '76	Charles S. Samorodin, '68
Kathy Garcia	Paul Schenker, '26
Milton ('38) & Ann Ginsberg	Charles Steven Shapiro
Mary Jane Gordon	Bernard R. Shochet, '83
Sheldon E. Griesman, MD	Ida Hallowell Sprinkel
RADM & Mrs. Robert S. Hatcher	Charlotte Dunn Steers
Joanne M. Hatem '81	Steven Steinberg, '77
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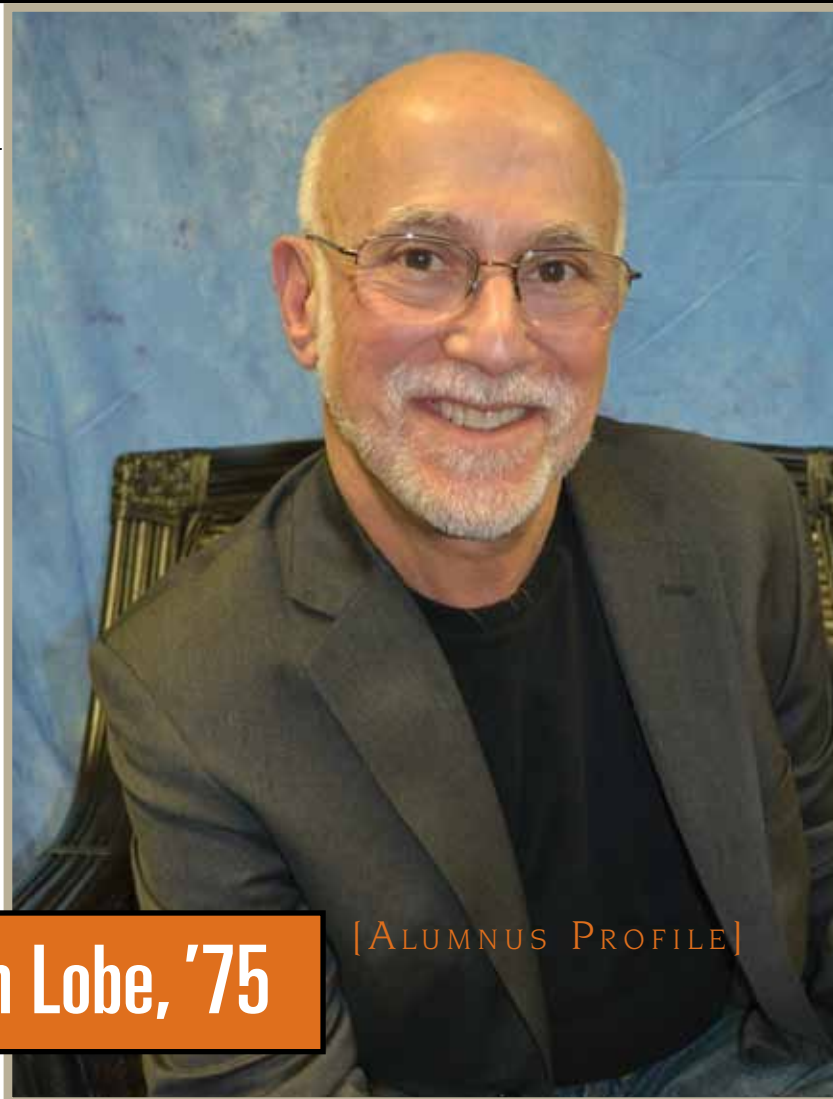
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By Rita M. Rooney

He developed one of the first instructional programs in the United States devoted to integrating complimentary and alternative medicine into the standard medical curriculum.



Thom Lobe, '75

[ALUMNUS PROFILE]

A Bold Perspective

AS A PEDIATRIC SURGEON, Thom Lobe, '75, battled the medical establishment to achieve a milestone in a ground-breaking though controversial procedure. Years later, he faced similar criticism when he insisted “aging is a disease we can treat effectively.” His contention in the first instance greatly minimized the trauma of surgery for the young. As for the latter, he proved the skeptics were wrong while helping to reverse the aging process for hundreds of patients.

It all began during the early days of laparoscopic gallbladder surgery. The procedure was acclaimed for being minimally invasive, requiring almost no recuperative time and little pain—in adult patients. Children, however, were off limits for such minimally invasive techniques. That troubled Lobe who believed strongly that pediatric patients would benefit as much as adults if considered candidates for laparoscopy. He tackled the issue among his peers, and ultimately became the first surgeon in this country, and among the first in the world to perform such procedures on children.

He recalls a conference he had with the parents of a nine-year-old male patient requiring an appendectomy when he was professor of surgery and pediatrics at the University of Tennessee Health Science Center. He explained the difference between traditional surgery and the more minimally invasive technique to the couple. The parents chose laparoscopy, and so Lobe operated on the child and, following the surgery, went on hospital rounds.

“A couple of hours later, I looked in on him, and he wasn’t in his room,” Lobe says. “I was understandably concerned until a nurse informed me the child and his parents were in the cafeteria. I went there to see how he was and found him eating a grilled cheese sandwich. The youngster’s only concern was that he wanted to play in his Little League championship game later that same day.”

As it turned out, the boy was able to do so, and the success of that surgery and subsequent others, removed forever any barriers to laparoscopic pediatric surgery. In time, the minimally invasive procedures he perfected, including pioneering robotic surgery in children, would earn Lobe three lifetime achievement awards on three continents. For Lobe, however, it was a hard fought battle to convince the medical community of his convictions. “There were some who argued my medical license should be revoked,” he says. “It was a scary time, but I knew I was right.” Several years later, he would face similarly strong opposition to his theories.

While on the University of Texas faculty, Lobe became one of the first surgeons to successfully separate a particularly difficult category of a Siamese twin birth connected at the biliary tract. He also perfected a procedure that included a complex reconstruction of the airway.

Research has always played an important role in Lobe’s career. Before becoming involved in minimally invasive techniques for children, he headed a research lab, working as a cell biologist studying septic shock in newborns. Currently, he is principal investigator or investigator on internal review board protocols for the use of stem cells for clinical conditions including osteoarthritis, diabetes mellitus, chronic obstructive pulmonary disease, erectile dysfunction and critical limb ischemia.

In recent years, Lobe, who continues to maintain his pediatric surgical practice, began applying lessons learned from treating children to the science of anti-aging. His experience with intravenous nutrition began in the late 1970s when he treated newborns who were unable to eat and take nourishment normally. As a staff member at St. Jude Children’s Research Hospital, he began working with stem cell transplantation when the field was in its infancy.

“My various experience in treating children led me to observe how quickly they heal compared to adults,” he says. “I began to explore the ways to extend and maintain youthful physiology and vitality well beyond what people think of as normal.”

Again the skeptics came forth, but Lobe was armed with confidence that his theories were valid. He applied his experience in nutritional and hormonal balance, as

well as stem cell therapies, to prove his belief in what he calls “the science of staying young.”

Today, Lobe’s practice has offices in Beverly Hills and Chicago. Called Regeneveda, it employs therapies based on the most up-to-date evidence from peer-reviewed medical literature, and focuses on reducing risk of cardiovascular disease, neurological degeneration, cancer, osteoporosis and diabetes.

“Our approach is both simple and scientific,” he says. “We evaluate a patient thoroughly and then design a customized personal program. We examine every aspect of a patient’s metabolism and hormonal imbalance before prescribing remedies and supplements.”

In time, the minimally invasive procedures he perfected, including pioneering robotic surgery in children, would earn Lobe three lifetime achievement awards on three continents.

After graduating cum laude from Maryland, Lobe served a residency in general surgery at Ohio State University, where he was chief resident, a residency in pediatric surgery at The Children’s Hospital in Columbus, Ohio, plus a visiting residency in pediatric urology at Massachusetts General Hospital. He is board certified in general surgery, pediatric surgery, laser medicine and surgery, medical acupuncture and medical hypnosis. He is an advanced fellow in anti-aging, function and regenerative medicine.

Rather than being a relocation from one divergent path to another, every new direction in Lobe’s career has been a natural progression from the one before it. He appears to be someone with an ability to look beyond and refocus with the kind of insight that questions where else specific knowledge might lead. His interest in integrating western and eastern medicine is one example. He developed one of the first instructional programs in the United States devoted to integrating complimentary and alternative medicine into the standard medical curriculum.

What’s next for Thom Lobe? While he obviously holds a special place in his life for children, and says he will always maintain his pediatric surgical practice, it is the almost virgin territory of anti-aging that has captured his attention. The field offers much of all that has molded Lobe’s career, including being subject to skepticism, a challenge he welcomes. As he puts it, “I’m 64 and have decided to devote the next 64 years of my life to reversing the aging process.” 🏠

[ALUMNUS PROFILE]

DISCOVERY

Philip Needleman, PhD '64

on His Terms

While at the WUMS, he co-discovered the first angiotensin antagonist for hypertension, and was personally responsible for discovery of the inflammation target cox-2 which led to the development of Celebrex to treat arthritis and pre-cancerous colon polyps.

Phil Needleman, PhD '64, has approached discovery from dual perspectives but always with a three-pronged demand. The challenge must be one that holds interest for him. It must be important, and it must be one from which he can learn something. In pursuing these self-imposed goals, he has made major pharmaceutical gains both academically and in industry, among them discovery of a drug that continues to relieve pain for millions of arthritis sufferers, with additional impact as pre-cancer treatment.

Needleman served as chair, department of pharmacology, at the Washington University School of Medicine (WUMS), St. Louis, for 25 years. He became associate dean for special projects and received the first alumni endowed professorship. While at the WUMS, he co-discovered the first angiotensin antagonist for hypertension, and was personally responsible for discovery of the inflammation target cox-2 which led to the development of Celebrex to treat arthritis and pre-cancerous colon polyps. In addition, he discovered the existence of a novel hormone, antriopeptin which communicates among the heart, kidney, adrenals and brain to orchestrate fluid, salt, and blood pressure regularity.

Most recently, Needleman agreed to serve on the newly organized dean's scientific advisory council at Maryland, an initiative of Dean E. Albert Reece, MD, PhD, MBA.

The council, he says, is very important to him. "I feel strongly about wanting to go back to Maryland and help Dean Reece in this effort," he says. "I admire what he is doing, and believe medical schools today are on a bridge to accelerate the transition from basic scientific discovery to the patient. What Reece is trying to do with this council is external peer review, and that is critically essential in today's world."

Reflecting on his career, Needleman says he was extremely happy in academia and might never have left had it not been for his inherent impatience to move the progress of needed drugs from the laboratory to the clinic.

"When I discovered cox-2, I knew I had to leave academia," he says. "Universities don't have the resources, the long range budgets or the experience in getting the regulatory approval necessary to bring fundamental discoveries to fruition."

Therefore, in 1989, he accepted Monsanto's offer of the position of chief scientist, with the benefit of being able to keep his laboratory and post docs at the WUMS. With a staff of 500, he had oversight of chemical agricultural research, as well as research and development, with a major role in determining corporate budgets.

In the early years, Celebrex had its highs and lows. A mutation had been discovered which necessitates surgical removal of the intestine to avoid carcinoma and death. While the mutation affected only a few hundred patients, it was learned that the specific polyps involved had massive levels of cox-2 and appeared in the spontaneous colon cancer that causes 40,000 deaths annually. This meant it was highly predictable that Celebrex would shrink the tumors, thereby reducing the death rate. Epidemiologic studies among thousands of patients confirmed this. However, no clinical trials were ever conducted as a result of the Vioxx scares that erupted at that time. As a result, while Celebrex is credited with enhancing the lives of millions of arthritis patients, and is approved for non-surgical treatment of pre-cancerous colon polyps, it has never been approved for treatment of colon cancer due to the absence of government trials.

"I am convinced that, had it not been for the situation with Vioxx, Celebrex would today be effectively used to treat colon cancer," Needleman says.

As a scientist, Needleman has always thrived on change. He enjoys the challenge of getting past the kind of entrenched thinking that slows progress. At Monsanto, he ran his department much like an NIH laboratory, with seminars and peer review. It was data-driven science and, since there is no tenure in industry, the principle was that one must continually produce.

His advice to academics considering a change to industry: "It should be fairly late in one's career," he says. "A scientist needs to be backed by accomplishment and confidence to resist compromising either principles or ethics."

In 2010, Needleman became interim president of the Donald Danforth Plant Science Center, as well as the St. Louis Science Center. Danforth is a non-profit scientific institution involved in the genetic engineering of plants

His advice to academics considering a change to industry: "It should be fairly late in one's career," he says. "A scientist needs to be backed by accomplishment and confidence to resist compromising either principles or ethics."



for human outcome, specifically to overcome the incidence of blindness and neurological disease in Africa. Today, his official title describes what he calls the only job at which he has not succeeded. "I am, without a doubt, the worst retirement failure in history," he reports.

Most, however, would not consider Phil Needleman retired. He divides his time among charitable and academic activity, venture capital and civic service. He is a member of the WUMS Board of Trustees, the WUMS National Council, and chairs the research and development national council. He serves on the science advisory committee of Ben Gurion University (Israel), the Barnes-Jewish Hospital Board of Trustees, and the Plant and Life Science Coalition. His numerous awards include the National Academy of Science Award for Industrial Application of Research, the NYU Applied Biotechnology Award, the John Jacob Abel Award of the American Pharmaceutical Society, the Research Achievement Award of the American Heart Association, the Washington University Distinguished Faculty Award, and the Washington University Second Century Award.

Today, one of the activities which he is eager to embrace is membership on Maryland's scientific advisory council.

"This council has the potential to make a really significant scientific impact," he says. "Dean Reece is realistic about discovery, and is instituting the kind of programs that attract remarkable resources. What is happening today at Maryland is beyond what I could have imagined when I was a student there. I believe that's because Reece understands the importance of

building a critical mass of good people."

Always the consummate scientist, Needleman switched gears somewhat when asked to name the proudest incident in his career.

"Marrying my wife of 53 years," he answers without hesitation. "In high school, I never took a book home. She began influencing me in college, and it is because of her that I became a good student, and am the person I am today." 🏛️

Endowed Professorships Fuel Academic Excellence

In 2013, the medical school invested three highly accomplished faculty members with endowed professorships, providing them with critical resources needed to sustain and expand promising research, launch innovative clinical initiatives, and educate and train future physicians. The honor associated with appointment to an endowed position has remained unchanged for 500 years and is recognized as one of the highest tributes that an institution can bestow upon faculty members who inspire students, advance the frontiers of knowledge, and make discoveries that change people's lives.

Endowed professorships remain a high priority because of the powerful impact they have on recruitment and retention of outstanding clinicians, scientists, and educators.

Once the endowment is established, the school stages an investiture ceremony to gather the academic community, donors, friends, board members, and other advocates. This relatively new tradition, started in 2007, features testimonials from the dean and mentors of the newly invested professor, as well as acknowledgment of the donor. They have become wonderful celebrations of academic accomplishment and philanthropy.

On March 5, **Kevin J. Cullen, MD**, director of the University of Maryland Marlene and Stewart Greenebaum Cancer Center (UMGCC), was invested as the Marlene & Stewart Greenebaum Distinguished



Top: From left, SOM dean E. Albert Reece, MD, PhD, MBA, Amy Greenebaum and husband Steve Burwen, Michael Greenebaum, Stewart Greenabaum and wife Marlene, Kevin Cullen, MD, UMMS ceo Robert Chrencik and UMMC ceo Jeffrey Rivest

Middle: SOM dean E. Albert Reece, MD, PhD, MBA, John A. Olson Jr., MD, PhD, and surgery chairman Stephen T. Bartlett, MD

Bottom: Peter Rock, MD, Thomas M. Scalea, MD, SOM dean E. Albert Reece, MD, Howard S. Brown, and Alan I. Faden, MD



On May 23, **John A. Olson, Jr., MD, PhD**, professor and vice chair of surgery, was invested as the Campbell and Jeanette Plugge Professor in Surgery. Olson specializes in endocrine and oncologic surgery with specific focus on diseases of the thyroid, parathyroid, adrenal, and breast.

Frederick W. "Fritz" Plugge IV, '57, established three endowed funds in the department as an expression of his gratitude to Maryland for his medical education and training. This professorship provides a lasting memorial to his parents for their unselfish support of his education.

On June 5, **Alan I. Faden, MD**, professor of anesthesiology, anatomy & neurobiology, neurosurgery, and neurology and director of the University of



Professorship in Oncology. Cullen, professor of medicine, specializes in head and neck cancer. Under his leadership, the UMGCC has received NCI designation, ranked 11th among all cancer centers nationally in 2012 by *US News and World Report*.

The Greenebaum Family, Stewart, Marlene, Michael, and Amy are among Baltimore's most well-known and respected families. Through their philanthropy and civic leadership, the Greenebaums have affirmed their deep commitment to Baltimore and improved countless lives.

Maryland Center for Shock, Trauma and Anesthesiology Research, was invested as the David S. Brown Professor in Trauma. Established by Howard S. Brown in honor of his father, the professorship was created to recognize the outstanding care his daughter Esther Ann Adler received at Shock Trauma from **Thomas M. Scalea, MD**, the Honorable Senator Francis X. Kelly Distinguished Professor in Trauma Surgery, and director of the program in trauma. 🏛️

Applicable Exclusion Portability and Estate Planning




This column is prepared by Ken Pittman, a senior vice president and senior wealth planner at PNC Wealth Management. Pittman provides wealth planning services and can be reached at 410.626.2104 or at kenneth.pittman@pnc.com

For married individuals, the Tax Relief, Unemployment Insurance Reauthorization, and Job Creation Act of 2010 added a new portability provision that allowed a surviving spouse to take advantage of any unused applicable exclusion amount, the amount of property that can be sheltered from federal estate and gift tax, of a spouse that died in 2011 or 2012. Shortly thereafter, the American Taxpayer Relief Act of 2012 permanently extended the portability of the unused applicable exclusion amount and established an inflation adjusted lifetime applicable exclusion amount of \$5,250,000 (2013). The portability provision would seem to make estate planning simpler and there may be a lesser need to employ the commonly used A/B trust structure, but there are a few tradeoffs to consider.

The utilization of the portability tactic may alter traditional estate planning approaches. Prior to the acts of 2010 and 2012, many married couples set up an A/B trust arrangement for estate planning purposes. When executing this plan, the assets of the first spouse to die would be transferred in an amount equal to the applicable exclusion amount to a “B” or credit shelter bypass trust, to benefit the surviving spouse and their children, thereby bypassing the surviving spouse’s estate and avoiding the associated potential federal estate taxes. The remaining balance of the estate of the first spouse to die would be transferred to the surviving spouse outright or by using an “A” or marital trust, and would qualify for the federal marital estate tax deduction. Although these assets would be includable in the surviving spouse’s estate, the spouse’s applicable exclusion would shield (at least in part) the assets from federal estate taxation. When utilized properly, this A/B trust structure ensured that neither spouse’s applicable exclusion amount went unused. Under the portability provision, an individual’s assets could be transferred entirely to the surviving spouse and the estate could elect to transfer the unused applicable exclusion amount to the surviving spouse. The surviving spouse would then have an applicable exclusion amount equal to the sum of his or her own applicable exclusion amount plus the transferred amount, which could then be used to reduce or eliminate the federal estate or gift tax liability. Given this scenario in 2013, it may be possible for a surviving spouse to establish a \$10,500,000 applicable exclusion amount to shelter property from federal estate and gift taxes.

There are several considerations associated with using the portability provision for estate planning purposes, including:

1. if an individual re-marries after the death of a spouse, the unused applicable exclusion amount of the previously deceased spouse will no longer be available,
2. the unused applicable exclusion amount that is transferred to a surviving spouse is not indexed for inflation; if the property transferred to a spouse appreciates after the death of the first spouse, the ultimate value of the property could exceed the unused exclusion amount and could trigger a federal estate tax liability, and
3. to make the unused applicable exclusion election, a federal estate tax return will need to be filed even if no federal estate tax is owed.

Given recent tax law changes, estate plans and related documents may need to be revised. Each person’s situation is unique, and these issues can be complex. For guidance on these matters, you would be well served by seeking advice from qualified estate, tax and wealth planning professionals. 

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Samuel C. Chew, Class of 1858

120 Years Ago

In 1893, the Medical Alumni Association Board of Directors established The Trustees of the Endowment of the University of Maryland, Inc. Headed by **Jacob Michael**, class of 1873, and **Samuel C. Chew**, class of 1858, the Trustees became a subsidiary group responsible for investing endowment gifts to benefit the University and reduce its dependence on tuition revenues.

75 Years Ago

In 1938, **Francis C. Hertzog**, class of 1917, became one of the first medical examiners with the Civil Aeronautics Board. He issued a pilot medical certificate to famed pilot Douglas "Wrong Way" Corrigan prior to the latter's misdirected flight from New York to Dublin (rather than Long Beach, Calif.)



Francis C. Hertzog, Class of 1917



Israel Weiner, Class of 1953

25 Years Ago

In 1988, **Israel Weiner**, class of 1953, was named first chairman of the Maryland State Board of Physician Quality Assurance. The position was created as a result of a merger between the state's physicians licensing board and the medical disciplinary agency. Weiner, a neurosurgeon, served two terms as chair.

recollections

A look back at America's fifth oldest medical school and its illustrious alumni

student Activities

Class of 2017 is 63% Female

This year's entering class of 163 is slightly larger than recent classes and continues its female majority, this year at 63%. Members come from more than 70 colleges and universities, ranging in age from 21 to 32. The average grade point average was 3.76 and MCAT score of 32.

At a Glance

MD Program

Total Applications	4,925
Applicants Interviewed	574
Acceptances Offered	337
Class Size	163
Percentage Male/Female	37%/63%
Percentage Maryland Residents	73%
Percentage Underrepresented in Medicine	11%
Age Ranges	21-32
Colleges/Universities Represented	73
Average Science GPA	3.72
Overall GPA	3.76
Average MCAT Score	32

MD/PhD Program

Total Applications	194
Applicants Interviewed	36
Acceptances Offered	25
Class Size	3

MD/Master's Program

Total Applications	108
Applicants Interviewed	20
Acceptances Offered	13
Class Size	4

Four Selected to MAA SAC

Four members from the Class of '17 were named to the Medical Alumni Association Student Advisory Council. **Kerry Campbell, Charlotte Deck, Brooke Farquhar** and **Angelina She** joined 12 continuing members to help organize MAA-sponsored student activities and serve as the conduit between the Association and their class. 🏛️



Members of the MAA Student Advisory Council in attendance at a recent meeting include Stephen Biederman, '15, Sona Chaudhry, '14, Miranda Gordon-Zigel, '16, Sheila Razdan, '16, Tara Barry, '16, Crystal Bae, '16, Brooke Farquhar, '16, Angelina She, '16, Kerry Campbell, '17, Andrew Dubina, '14, Charlotte Deck, '16, Alanah Webb, '14 and David Kim, '15



- ◆ Are you a physician in the University of Maryland medical community?
- ◆ Would you be interested in hosting an event to meet and share your experiences with medical students, and even potentially serve as a mentor?

LinkMD serves to create **professional networking** opportunities for first and second year medical students with residents, faculty, and alumni of UMD in **casual, out-of-classroom encounters**. Events vary from dinner, mini-golf, watching the big game, or another activity of your preference!

For more information or to set up an event, please e-mail the LinkMD team at LinkMaryland@gmail.com or visit our website at linkmdblog.wordpress.com

1930s **1938: Joseph M. George Jr.**, of Las Vegas reports that he continues to enjoy reading the *Medicine Bulletin* magazine and is doing well at 100 years old.

1940s **1947: Jose G. Valderas** of Keller, Tex., says he's grateful for the excellent education he received at Maryland including residency training in OB-GYN from 1950 to 1953. He has been retired since 1996 after practicing at St. Agnes Hospital most of his career. **1948: John R. Shell** of Madison, Miss., reports that he's discovered the secret to golf enjoyment at his age: quit keeping score.

1950s **1950: Miriam S. Daly** of Albion, Mich., continues coordinating Red Cross blood drives and is involved in community activities. She mourns the loss of sister-in-law **Mary Daly, '55**, on April 14. **1952: Jonas Rappoport** is president of the Maryland Continuing Care Residents Association, and he is a resident of Broadmead, a CCRC located in Hunt Valley. **1953: Rafael Longo** of San Juan apologizes for not attending the 60th reunion in May and asks that his classmates keep in touch. **1956: Charles Sanislow** of Midland, Mich., reports that his hospital and its affiliates are now part of the University of Michigan Health System, an exciting partnership for Sanislow, his colleagues and patients. **1957: Paul A. Mullan** and wife Carol of Baltimore sadly report that son Paul passed away in February due to a brain tumor. **1958: Gaylord L. Clark** continues living on his family farm in Stevenson, Md., marketing eggs, "Carriage House Farms," which can be purchased on the farm or at local markets. With all children out of the nest, he invites classmates to visit.

1960s **1964: Albert M. Gordon** of Annapolis, Md., is semi-retired, spending time with wife Susan and family in Maryland and at their second home in Naples. His patients drive from Millersville to Edgewater to see him. Gordon also likes to exercise in his home gym and travel. **1966: Stuart L. Fine**

is enjoying life in the Colorado mountains after 18 years at Johns Hopkins and 20 years at Penn. He is still engaged in research and education, spending time at the University of Colorado Medical Center. Fine traveled to Galapagos in June with children and grandchildren, and he looks forward to the 50th reunion of his class in a few years. ♦ **Robert E. Leibowitz** of Brigantine, N.J., sadly reports that wife Diane died in June 2012. **1967: John Wm. Gareis** and wife Dolores of Lancaster, Pa., recently celebrated their 50th wedding anniversary. ♦ **Sheldon L. Markowitz** of Austin recently completed his 40th year of internal medicine practice and looks forward to another four or five years of full-time work. ♦ **Alan S. Pristoop** of Owings Mills, Md., reports that his first grandchild was born February 25 to son Rafi and his wife. Both are attendings on the teaching staff of the University of Michigan in Ann Arbor. **1968: Morton B. Blumberg** is living full-time in Snowmass Village, Colo. ♦ **Charles S. Samorodin** of Ruxton, Md., reports that granddaughter Sasha has started a residency training program for small animal neurosurgery at the Purdue University after graduating from Cornell Vet School. ♦ **Jon M. Valigorsky** of Pittsfield, Mass., was honored as physician of the year by Berkshire Medical Center at its annual physician recognition dinner May 16. **1969: Roberta M. Braun** of Stevensonville, Md., in retirement enjoys spending time with nine grandchildren (all nine years and under). All three children graduated from Maryland and practice with her dermatologist husband, **Martin, '70**. ♦ **Edward J. Kosnik** of Columbus, Ohio, sustained a second aortic dissection requiring a five-month hospitalization. He returned to work as a pediatric neurosurgeon in February at the Medical University of South Carolina (MUSC), after serving as chief of pediatric surgery at Nationwide Children's Hospital in Columbus. Kosnik's daughter is chief resident in neurosurgery at MUSC.

1970s **1970: Thomas F. Kline** of Raleigh, N.C., continues going strong in the practice of geriatrics. ♦ **Robert I. White** of Westfield, Mass., recently went duck hunting with class-

mate **Joseph Michalski**. **1971: Ralph E. Seligmann** reports that he is healthy and enjoying his IM practice in Scottsdale, Ariz. **1972: Edgardo L. Yordan Jr.**, of Riverwoods, Ill., is professor of GYN oncology at Rush University Medical Center. **1974: William Crawford III**, and wife Jane of Sheboygan, Wis., report daughter Allison is training in internal medicine at Brown University after receiving her medical degree from the University of Illinois College of Medicine where their son Andrew is beginning his medical studies. Crawford continues to enjoy the practice of medicine at the Aurora Sheboygan Clinic. **1975: George L. Drusano** of Windermere, Fla., received the Cubist-ICAAC (Inter-science Conference on Antimicrobial Agents and Chemotherapy) Award for his application of pharmacokinetic and Pharmacodynamic modeling to antiviral and antimicrobial drug development. ♦ **Louis Fox** of Dallas reports daughter Alyssa is entering the University of Texas Law School after graduating from Southern Methodist University. ♦ **Kenneth V. Iserson** of Tucson announces the release of his latest book *The Global Healthcare Volunteer's Handbook: What You Need to Know Before You Go* in January 2014. Iserson, professor emeritus at the University of Arizona, is about to serve for one month as visiting professor at the Georgetown, Guyana, emergency medicine residency program. **1976: Melvin Sharoky** of Tampa, Fla., reports that daughter **Catherine, '13**, has started a seven-year residency program in surgery at the University of Pennsylvania after graduating from Maryland in May. ♦ **Sherry L. Werner** of San Antonio enjoys spending time with her two young grandsons. She is professor of pathology at UTHSCSA, focusing on renal pathology, teaching and research. **1977: Joseph Braun** of Clearwater Beach, Fla., is doing full-time medical legal consulting. Daughter Tara has started Baylor School of Medicine. ♦ **Rona B. Eisen** of Bethesda, Md., is happily retired and reports that she was one of the "uninjured" participants of the Boston Marathon. **1979: Richard A. Lebow** of Hunt Valley, Md., has completed 32 years of full-time ER practice at Union Memorial

Hospital. ♦ **Owen Lee** of Newark, Ohio, reports that daughter Jenny is training in family medicine after graduating from medical school.

1980s ♦ **1980: Mehtap Atagun Aygun** of Baltimore reports that none of her children chose medicine as a profession. However, son Jake is vice president at Ponder & Co, a company specializing in the management of bonds for healthcare corporations. Daughter Serva is a medical malpractice defense lawyer, and Talia is avoiding medicine altogether on the beach at UCSB. ♦ **Kenneth C. Kunze** of Atlanta is vice president and chair of the physician leadership practice at Tyler & Company, a healthcare executive search firm. A gastroenterologist, Kunze earned a master's degree in medical management from Tulane University. Prior to this appointment, he was senior VP and deputy chief of staff for WellStar Health System. ♦ **Roger J. Robertson** of Chambersburg, Pa., reports that son **Tom** is a third-year medical student at Maryland. **1981: Samuel Smith** of Baltimore received *Baltimore* magazine's top doctors award for reproductive endocrinology for the fourth consecutive year. He reports daughter Maya recently received nurse of the year honors from the University of Miami Hospital. **1982: Charles Lucey** of Killeen, Tex., who specializes in occupational and preventive medicine, raises sheep and chickens in the Texas hill country. ♦ **Charles E. Sheehan III** of Ellicott City, Md., is president of Ellicott City Primary Care Medicine. He has special interest in international/travel medicine and is a volunteer providing free medical care in rural India. Sheehan is also involved in the


planning and building of a health center in Anupshahr, and he invites anyone interested in volunteering to contact him.

♦ **Corina J. Waldman** of Parkland, Fla., reports that son **Ian** will graduate from Maryland next May. It has been an incredible experience for him and surprisingly nice for her to "return home." **1984: Martin L. Schwartz** of Irondale, Ala., is president of the medical staff at Saint Vincent's Birmingham. He was recently inducted into the American Sports Medicine Fellowship Society. **1989: John J. & Maura Hanrahan** of Park City, Utah, recently celebrated their 25th wedding anniversary. ♦ **William E. Venanzi** of Centerville, Ohio, retired as a colonel from the U.S. Air Force after 25 years of service. He deployed four times to the Iraq and Afghanistan theaters of operation. For the last four years he was chief medical officer of the 88th Medical Group, Wright Patterson AFB, Ohio, responsible for all the clinical activity of 415 providers at the Air Force's second largest hospital.

1990s ♦ **1991: Jason A. Dominitz** lives in Seattle with wife Josephine and four children. He is national director for gastroenterology services for the Veterans Health Administration and is acting GI section chief at the VA Puget Sound Health Care System. Dominitz spends considerable time as co-chair of a VA study comparing colonoscopy to annual fecal immunochemical testing for reduction in mortality from colorectal cancer in 50,000 veterans. ♦ **Jill Clark Sorbera** of Lodi, Calif., reveals that the class of '91 remains a much-loved group of people to her. **1992: Ronald Rakowski** of Frederick, Md., reports that after 12 years

practicing emergency medicine at Frederick Memorial Hospital, he is now providing internal locums support with TeamHealth. The move follows the non-renewal of a contract between his group, EPA, and Frederick Memorial that had spanned nearly 35 years. **1994: Jeremy P. Finkelstein** of Houston is section chief of emergency medicine at the Methodist Hospital and now contracts with nine hospitals to provide ER physician and mid-level staffing services. He spent the summer in Italy with wife Caroline and boys Max, age 11, and Alex, age nine. **1999: Mallory Williams** of Toledo, Ohio, is chair of the National Medical Association Surgical Section, Drew-Walker Resident Research Forum.

2000s ♦ **2004: Robert G. Davidson** and wife **Ashley, '06**, of Baltimore welcomed Luke, their second son, on July 11. **2006: Kerri Wenzel Brackney** and husband David of Middletown, Pa., announce the birth of Adelyn Alivia, their second daughter, on May 20. Brackney is on the part-time faculty in the department of OB-GYN at Penn State Hershey. **2007: Ryan Housam Fitzgerald** and husband Jason of Metuchen, N.J., announce the birth of daughter Kennedy born March 1.

2010s ♦ **2010: Ije E. Akunyili** of Bellaire, Tex., reports that she and **Jordan Celeste** were elected to the board of the Emergency Medicine Residents' Association, Akunyili as vice speaker and Celeste as president-elect. ♦ **Mary Desi** joined a four-person practice in Shrewsbury, Pa., after completing residency training in family medicine at York Hospital. She and husband Jonathan have two children—Catie, age two, and Tammy, age one. 

Our Medical Alumni Association

Mission: The Medical Alumni Association of the University of Maryland, Inc., in continuous operation since 1875, is an independent charitable organization dedicated to supporting the University of Maryland School of Medicine and Davidge Hall.

Board Structure: The MAA is governed by a board consisting of five officers and nine board members. Each year more than 100 alumni participate on its seven standing committees and special anniversary class reunion committees.

Membership: Annual dues are \$85 and are complimentary the first four years after graduation or through the completion of training. Dues are waived for members reaching their 50th graduation anniversary or have turned 70 years of age. Members receive the quarterly alumni *Bulletin* magazine, have access to on-line first- and second-year classroom lectures, can obtain contact information of classmates and colleagues, and are invited to social events including the annual Reunion. Revenues

support salaries for two full-time and five part-time employees, as well as general office expenses to maintain the alumni data base, produce the magazine, stage social events, administer a revolving student loan fund, and oversee conservation of Davidge Hall and maintain its museum.

Annual Fund: The association administers the annual fund on behalf of the medical school. Gift revenues support student loans and scholarships, lectureships, professorships, capital projects—including Davidge Hall conservation—plus direct support to departments for special projects and unrestricted support to the dean.

The Morton M. Krieger, MD, Medical Alumni Center is located on the second floor of Davidge Hall, 522 W. Lombard Street, Baltimore, MD, 21201-1636, telephone 410.706.7454, fax 410.706.3658, website www.medicalalumni.org, and email maa@medalumni.umaryland.edu

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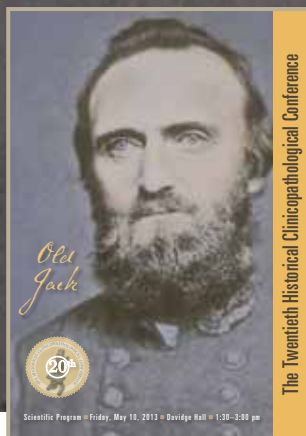
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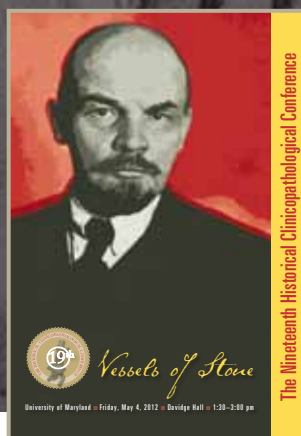


Also available are DVDs from past conferences. Each DVD is \$18. Please specify which CPC you'd like and mail a check to: Medical Alumni Association 522 W. Lombard St. Baltimore, MD 21201-1636 or visit our website: www.medicalalumni.org

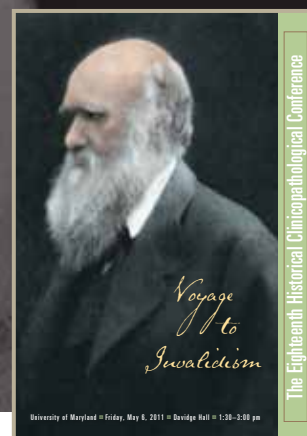
2013 Stonewall Jackson



2012 Vladimir Lenin



2011 Charles Darwin



in memoriam

Seymour Deehl, '36

Family Practice
Maplewood, N.J.
December 8, 2011

Dr. Deehl interned at Elizabeth General Hospital and Alexian Brothers Hospital in Elizabeth, N.J. He maintained a family practice there for more than 50 years, retiring in 1989. Survivors include wife Laura, three sons and three grandchildren. He was preceded in death by son Lowell.

Florence H. Gottdiener, '38

Obstetrics & Gynecology
Menlo Park, Calif.
June 16, 2006

Dr. Gottdiener returned to Poughkeepsie, N.Y., after training, practicing obstetrics & gynecology there until retirement in 1979. She was active in the Dutchess County Maternal Welfare League, a forerunner of Planned Parenthood. She resigned her post from the local hospital in 1952 after being refused permission to operate a family planning clinic, but returned the following year after the hospital reversed its decision. She moved to Menlo Park after retirement to be with family. Gottdiener enjoyed gardening, reading, cooking and travel. She was a member of the Silver Circle of the John Beale Davidge Alliance at Maryland after establishing a scholarship to benefit needy students. Gottdiener was preceded in death by husband Elvin and daughter Donna, and she is survived by two daughters, three grandchildren and three great-grandchildren.

John E. Way, '38

Surgery
Beaufort, N.C.
March 21, 2011

During World War II, Dr. Way served with his wife (an Army nurse) in the 97th Evac Hospital Unit and participated in D-Day, Battle of the Bulge, and later assisted survivors of concentration camps in Germany. After his military discharge, Way settled in Beaufort and established a practice, serving the community of Carteret County for more than 60 years. He was preceded

in death by wife Martha and is survived by two sons, five grandchildren and 10 great-grandchildren.

Albert Heyman, '40

Neurology & Internal Medicine
Washington, D.C.
February 10, 2012

After training Dr. Heyman spent nine years practicing in Atlanta where he held a joint appointment at Emory University and the Georgia Department of Health. In 1954, he joined the Duke University faculty in Durham as an associate professor of neurology and served as professor from 1961 to 1986. Heyman's studies on stroke led to the reformulation of estrogen-based birth control pills, making them safer for young women, and his epidemiological studies raised awareness of the risk of stroke in African Americans. In 1979, his focus shifted to Alzheimer's disease, and his research standardized the way the disease was diagnosed throughout the world. Heyman received numerous teaching and lifetime achievement awards. He was a collector of fine prints, drawings and rare books. He was preceded in death by wife Dorothy and is survived by two daughters, six grandchildren and six great-grandchildren.

Sybil Corbett Bennett, '42

General Practice & Dermatology
Valdosta, Ga.
July 29, 2012

After training, Dr. Corbett Bennett practiced general medicine in Jasper, Fla. Later she specialized in dermatology, ending her practice as a general practitioner in 1955. Corbett Bennett was a talented floral decorator, serving as president of the Garden Club of Georgia. In 1979, she helped decorate the White House for the visit of China's vice premier. Other hobbies included gardening, sewing, knitting, needlework and cooking. She was preceded in death by husband, Van, '42.

Louis H. Shuman, '42

Internal Medicine
Catonsville, Md.
August 3, 2013

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410.706.7454.

Los Angeles County Hospital was the site of Dr. Shuman's internship, followed by residency training at Gallinger Municipal (D.C. General) Hospital. He served in the military as a captain with the U.S. Marines. Shuman practiced internal medicine and held a faculty appointment as assistant clinical professor at Georgetown University Medical School. He was a member of John Beale Davidge Alliance Elm Society, the school's society for major donors. Preceded in death by wife Bernice, Shuman is survived by four children and six grandchildren.

Robert Z. Berry Sr., '43M

Otolaryngology, Head & Neck Surgery
Halethorpe, Md.
June 19, 2009

Upon graduation, Dr. Berry interned and received residency training at Mercy Medical Center, before serving in the U.S. Navy from 1945 to 1946. He returned to Baltimore where he remained in practice until retirement in December 1998. He had privileges at Mercy, Bon Secours, Church Home, Good Samaritan and St. Agnes hospitals. Berry enjoyed gardening, hunting and fishing, and he was a volunteer caller during the MAA phonathon in Davidge Hall during the 1980s. Wife Rita preceded him in death, and survivors include three children and 11 grandchildren.

Joseph C. Matchar, '43M

Internal Medicine & Geriatrics
Deerfield Beach, Fla.
June 23, 2013

Kings County Hospital in Brooklyn was the site of Dr. Matchar's internship, and he received residency training at Maryland and Lutheran hospitals. A product of Maryland's accelerated three-year curriculum during World War II, Matchar served in France in a U.S. Army psychiatric unit and was later discharged with the rank of captain. He practiced internal

medicine and geriatrics in Baltimore for more than 50 years, serving as chief of the aging center at Sinai Hospital from 1961 to 1972. In addition, Matchar had privileges at Maryland and Northwest Hospital Center. He retired in 1996 and then worked until age 83 reviewing charts for the Social Security Administration. Matchar was a volunteer for the Medical Alumni Association phonothn in Davidge Hall until relocating to Florida in 2002. He enjoyed painting and writing. His wife Evelyn preceded him in death, and Matchar is survived by three children, including daughter **Deborah Shlian, '72** (spouse Joel, '71), and son David, '80.

Wilbur H. Foard, '44

Family Medicine
Manchester, Md.
August 12, 2013

After an internship at Maryland, Dr. Foard spent two years in the U.S. Army. Upon his return, Foard set up a family medicine practice in Manchester where he remained until retirement. He served on the staff at Carroll County General Hospital in Westminster. Foard enjoyed photography and was preceded in death by wife Martha. Survivors include three children, five grandchildren and one great-grandchild.

Claude F. Bailey, '45

Obstetrics & Gynecology
Elizabeth City, N.C.
May 27, 2013

Dr. Bailey interned at Mercy Hospital and received residency training at Mercy and Maryland. He practiced OB-GYN in Elizabeth City and was on the staff at Albemarle Hospital.

Thomas G. Barnes II, '45

General Surgery
Ridgeland, Miss.
May 17, 2012

Dr. Barnes served both internship and residency training in surgery at Maryland. He practiced privately around the Greenville, Ga., area with privileges at King's Daughters Hospital and Delta Medical Center. He and wife Susan had four children.

Alfred D. Bonifant, '46

Family Practice & Anesthesiology
Silver Spring, Md.
January 14, 2013

After graduation Dr. Bonifant interned at Emergency Hospital in Washington, D.C., before serving with the U.S. Army for two years. He returned to Maryland to complete training, and then practiced at Montgomery General Hospital, serving in the community for more than 40 years. He enjoyed farming, golf and real estate development. Survivors include wife Betsy, two daughters, nine grandchildren and 13 great-grandchildren. He was preceded in death by daughter Betsy and son Alfred II.

Gladys M. Allen, '47

Obstetrics & Gynecology
Salisbury, Md.,
November 6, 2012

Dr. Allen interned at the Women's Medical College of Pennsylvania in Philadelphia (Drexel University) and received residency training at the associated Women's Hospital of Philadelphia. She spent the following five years working at a mission hospital in Assam, India, the country of her birth. In 1959, Allen returned to America, opening a private practice in Salisbury. In 1974, she became a public health officer in Wicomico County and, two years later, became the public health officer in Somerset County. Allen retired in 1986.

Morton Smith, '50

Internal Medicine & Endocrinology
Teaneck N.J.
June 19, 2013

Upon graduation, Dr. Smith received training at Michael Reese Hospital in Chicago, and he went on to become professor of medicine at New York Medical College. He enjoyed music, books and medical journals, enrolling in non-credit classes at the local university, and playing bridge. Smith was preceded in death by wife Margie and is survived by one son and one granddaughter.

Earl B. McFadden, '51

Psychiatry
Franklin, N.C.
May 28, 2012

During World War II, Dr. McFadden served as a U.S. Navy line officer aboard the USS Pierce. He maintained a private psychiatry practice in Greenville, S.C., from 1969 to 1993. McFadden enjoyed hunting, fishing and making and playing musical instruments. He played in the Gospel Travelers band for 10 years. Survivors include wife Betty, four children and 11 grandchildren. One son preceded him in death.

Edward N. Sipple, '51

Radiology
Wilmington, N.C.
October 4, 2012

Prior to medical school, Dr. Sipple served in the U.S. Army 23rd Infantry Division, better known as the Americal Division formed immediately following the attack on Pearl Harbor and spent a number of months in the southwest Pacific Theater. After medical school and training, he practiced radiology in Bar Harbor, Maine, and upon retirement settled in Wilmington, N.C. Survivors include wife Mary, one daughter and two grandchildren. He was preceded in death by son Edward.

William S. Dunford Jr., '52

Surgery & Urology
Cedar City, Utah
June 13, 2013

Dr. Dunford interned and received residency training with the U.S. Public Health Service and remained there until 1962. Assignments took him to Seattle, Portland, Ore., Baltimore and Lexington, Ky, serving as chief of both specialties at each service. For the next 25 years he was in private practice in Bountiful, Utah, and served as chief of urology for South Davis Community and Lakeview hospitals. Dunford retired in 1987. He participated in two church medical missions, one to Tonga where he served as an advisor to the hospital system. Dunford enjoyed travel, adventuring to Alaska, Africa and Eastern Europe. Dunford was preceded in death by wife

in memoriam

Berniece and one great-grandson, and he is survived by four children, 12 grandchildren and 24 great-grandchildren.

Mary V. Daly, '55

Internal Medicine
Jackson, Mich.
April 14, 2013

Dr. Daly practiced internal medicine for 51 years, primarily in Albion but also in Parma, Eaton Rapids and Springport. She enjoyed gardening, raising cattle, training border collies and watching NASCAR. Daly was preceded in death by brother Harold, '50, and is survived by sister-in-law Miriam Daly, '50.

William Dvorine, '55

Dermatology
Baltimore
July 3, 2013

During his career, Dr. Dvorine served as chief of dermatology at St. Agnes and Bon Secours hospitals and was a consultant at Sinai, Kernan and Springfield Hospital Center. In 1994, he published *Dermatologist's Guide to Home Skin Treatment*. Survivors include two children and five grandchildren.

Sidney M. Lytton, '55

Psychiatry
Atlantic Beach, Fla.
July 13, 2013

Survivors include wife Carol, six children and 13 grandchildren.

Harvey R. Butt Jr., '57

Anesthesiology
Annapolis, Md.
October 10, 2012

Prior to medical school and during World War II and the Korean War, Dr. Butt served in the US Merchant Marine where he rose to the rank of chief engineer. Monmouth Memorial Hospital in Long Beach, N.J., was the site of his internship after medical school graduation, followed by residency training at Ohio State University in Columbus, Ohio. From 1960 until retirement in 1990, Butt was an anesthesiologist on the staff of Anne Arundel Medical Center in Annapolis. He enjoyed sailing on the

Chesapeake Bay and travel. Survivors include wife Barbara, two children and five grandchildren.

Harold J. Hettleman, '57

Obstetrics & Gynecology
Baltimore
March 30, 2013

Dr. Hettleman practiced OB-GYN in the Pikesville, Md., area. Survivors include wife Elayne, four daughters and nine grandchildren.

Herbert E. Brooks, '57

Family Medicine
Bonifay, Fla.
August 23, 2013

Dr. Brooks practiced family medicine in Bonifay, serving as chief of staff at Holmes

County Hospital. He was past president of the Florida Academy of Family Physicians. Survivors include wife Fang Lin, three children and eight grandchildren.

Thomas J. McGeoy Jr., '61

Urology
Dale City, Calif.
February 16, 2013

Nijole B. Carozza, '63

Internal & Occupational Medicine
Baltimore
August 15, 2013

Dr. Carozza practiced occupational medicine at Baltimore Gas & Electric. She served on the Medical Alumni Association Board of Directors from 1995 to 1998. Carozza was preceded in death by husband Frank, '62.



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By Richard Colgan, MD,
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in memoriam

William Signor III, '65
Leonardtown, Md.
July 5, 2013

William J. Marek, '66
Public Health
California, Md.
June 14, 2013

Prior to medical school, Dr. Marek worked for two years as a federal agent for the U.S. Food and Drug Administration. Upon medical school graduation he trained in internal medicine at South Baltimore General Hospital and then became director of the nursing home administration Medicaid program for the Maryland State Department of Health and Mental Hygiene.

Four years later, after earning a master's in public health at Johns Hopkins, Marek served as health officer for St. Mary's County, a position he held until retirement in 1996. Appointments included the Med Chi Public Health Committee and the nursing home physician training committee. He was a founding member of the Walden Sierra Board and Three Oaks Homeless Shelter Board, as well as founder and first president of the Wildwood Village Condo Association. Marek enjoyed researching Civil War medical history and family genealogy. Survivors include wife JoEllen, one son and five grandchildren.

Barry N. Vogelstein, '76
Orthopaedics
Baltimore
July 2, 2013

Survivors include wife Eve, five children and one grandchild.

Grania Feddis-Anderson, '83
Surgery
Huntington Beach, Calif.
August 11, 2013

Dr. Feddis-Anderson practiced surgery with Kaiser Permanente in Downey, California, specializing in minimally-invasive techniques involving the abdomen and related organs. Survivors include husband Miles and two children. 🏠

On-line Classroom Lectures for Alumni

Dues-paying members of the Medical Alumni Association are invited to view **On-line Classroom Lectures**. These include many of the first- and second-year presentations available to students as taught from Taylor Lecture Hall in the Bressler Laboratory, as well as recordings of grand rounds. In addition, the MAA Annual Historical Clinicopathological Conferences and a few historical lectures by Theodore E. Woodward, '38 are available for viewing. Enrich your education by visiting the MAA website and registering today: www.medicalalumni.org.



Recent additions to the offerings ➡

- **Pharmacogenomics: From Discovery to Implementation in Patient Care**
Alan R. Schuldiner MD, associate dean and director, program of personalized and genomic medicine, professor and head, division of endocrinology, diabetes and nutrition
- **I like Chocolate and I like Teaching (The Potential Beneficial Effects of Eating Chocolate)**
Gary D. Plotnick, MD, professor of medicine, division of cardiology
- **Bugs and Drugs: Remarkable Achievements, More Challenges**
Harold C. Standiford MD, clinical professor of medicine, division of infectious disease

MedicineBulletin

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Friday, May 2, 2014

8:30-10:30 am	Open House & Check-in
8:30-9:30 am	Continental Breakfast
9:00-9:45 am	Hospital Tour
10:00-11:00 am	School of Medicine Update, Dr. E. Albert Reece, Dean
11:30 am-1:00 pm	Harry & Vivian Kramer Awards Luncheon & Business Meeting
1:30-3:30 pm	Afternoon Check-in
1:30-3:00 pm	21st Historical Clinicopathological Conference
3:30-5:00 pm	School of Medicine Tour
Evening	Class Parties, classes ending in "4" and "9"

Saturday, May 3, 2014

8:30 am-1:30 pm	Open House & Check-In
8:30-9:30 am	Continental Breakfast
9:30-10:30 am	Campus Walking Tour
10:45-11:45 am	Restoring Davidge Hall: An Update
11:30 am-2:00 pm	Complimentary Picnic, Davidge Hall
12:15-1:15 pm	Lecture: Historic Green Mount Cemetary
1:30-4:00 pm	Excursion to Fort McHenry
Evening	School of Medicine Gala