SOUTHWESTERN MEDICAL

PERSPECTIVES

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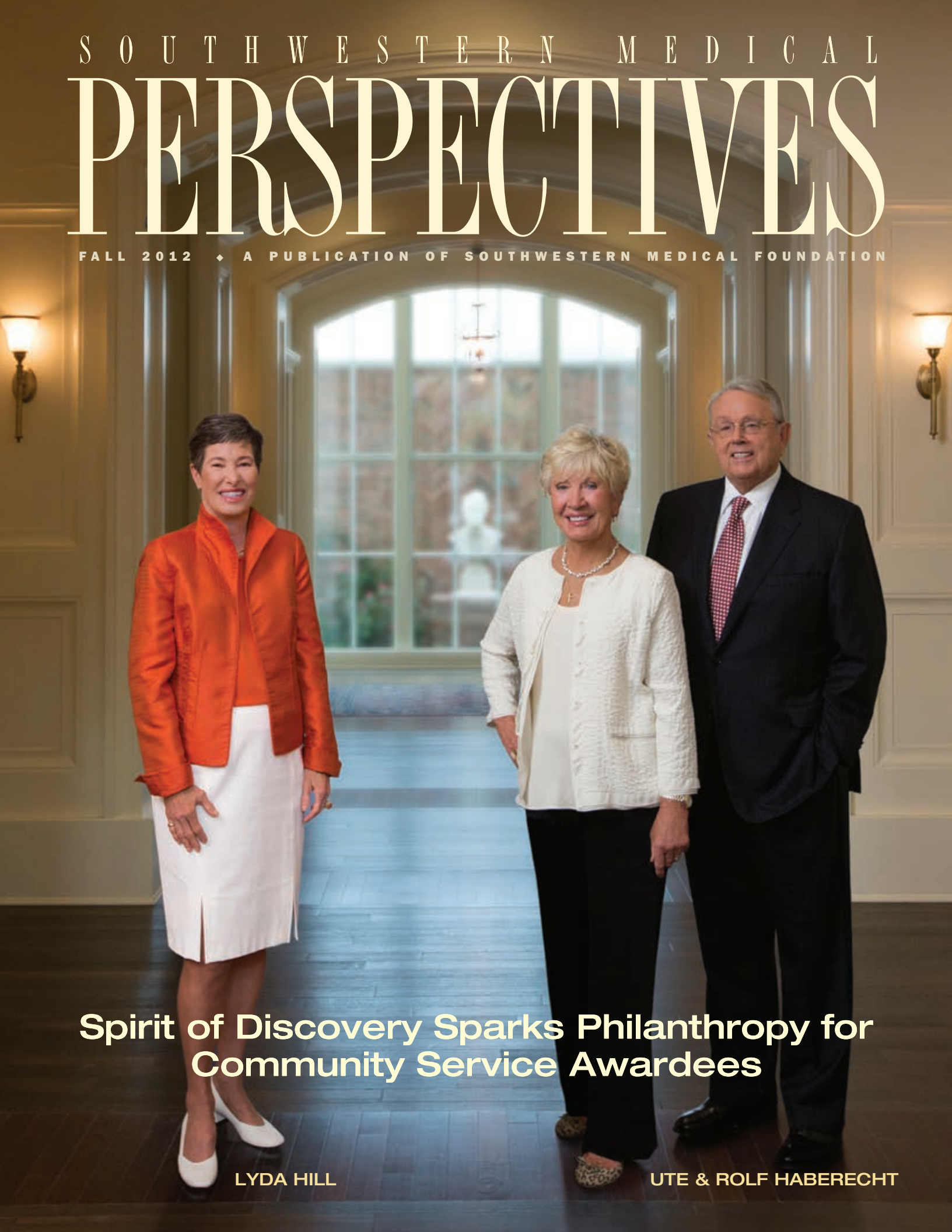

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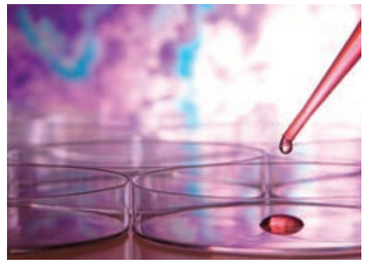

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Charles Cameron Sprague

Community Service Award

Each year Southwestern Medical Foundation honors select individuals who have provided extraordinary support in enhancing patient care, medical education and medical research in North Texas. This year the organization named three people, whose names have become synonymous with generosity and innovative leadership, as the 2012 recipients of its highest recognition, the Charles Cameron Sprague Community Service Award. Rolf and Ute Haberecht and Lyda Hill join an elite list of community leaders, whose dedication to Dallas have earned them the award.

In 1991 the Foundation created a community service award, which later was renamed the Charles Cameron Sprague Community Service Award, in honor of the Foundation's former president, CEO and chairman emeritus, and in recognition of the significant and lasting influence his service at UT Southwestern Medical Center and at Southwestern Medical Foundation had on medicine in Dallas.

Prior award recipients have included: Ruth Collins Altshuler, James W. Aston, Paul M. Bass Jr., Julie T. and Louis A. Beecherl Jr., H.R. (Bum) Bright, Nancy Brinker, Rita C. and William P. Clements Jr., Mary McDermott Cook, Joe M. Dealey, Robert H. Dedman Family (Nancy Dedman, Patricia Dedman Nail, and Rachael and Robert H. Dedman Jr.), Jerry Farrington, Earl A. Forsythe, F.B. Pete Goldman, Cecil H. Green, Nancy B. Hamon, Jess T. Hay, Adelyn and Edmund Hoffman, Sydney and J.L. Huffines, Vester Hughes, Nancy and Ray Hunt, J. Erik Jonsson, Robert Korba, George L. MacGregor, Margaret M. McDermott, Sammye and Mike A. Myers, Edith and Peter O'Donnell Jr., Margot and Ross Perot, Madeleine and T. Boone Pickens, Caren and C. Vincent Prothro, Charlene and Lee Raymond, Laura and Jack Roach, Ralph B. Rogers, Sarah M. and Charles E. Seay, Annette and Harold C. Simmons, Jean and Dr. Bob Smith, Gay F. and William T. Solomon, Charles Cameron Sprague, M.D., Jean and Tom Walter, and Donald Zale.

LYDA HILL:

Responsive to the needs of all, all over the world

A business entrepreneur, environmentalist, volunteer and innovative philanthropist, Lyda Hill is, quintessentially, an adventure-seeker. One of the most enterprising businesswomen in the country, she also is one of the most philanthropic, having pledged to give away her entire fortune – most of it during her lifetime.

Born into a family of Texas leaders – her grandfather was oil magnate H.L. Hunt – Miss Hill developed a lifelong thirst for knowledge and an ingrained desire to give back to the community in which she was raised.

President of LH Holdings, a real estate, tourism and venture investment firm, she is an inquisitive traveler and lifelong athlete who has trekked, skied and snorkeled in more than 100 countries. She credits her broad experiences, both at home and overseas, for keeping her grounded and "open to the incredible needs of others, all over the world."

President of the Lyda Hill Foundation, an organization that supports increased understanding of nature and science, the celebrated civic leader had her first foray into business development in 1967, when she founded Hill World Travel. The agency quickly became the largest travel agency in Dallas and was one of the largest in the country when she sold it 15 years later.

Her many real estate preservation projects include the award-winning redevelopment of the Fort Worth Stockyards, which transformed the area into a historic tourist attraction.

Countless nonprofit organizations have benefited from Miss Hill's leadership as chairman or president, including the Visiting Nurse Association of Texas, the Dallas Chapter of the World Presidents' Organization, the Crystal Charity Ball, the Junior League of Dallas, the Dallas and Texas Chapters of the American Heart Association, Easter Seals North Texas and the Women's Texas Golf Association. She chaired the Public Affairs Committee of the Southwestern Medical Foundation Board of Trustees for many years and now serves as an Honorary Trustee of the Foundation.

In addition to her volunteer leadership, she has made multiple seven-figure gifts to many Dallas organizations, including to UT Southwestern for the Lyda Hill Endowment for Systems Biology (see pages 22-23).

She has received numerous awards and honors, including the Betty Ford Individual Philanthropy Award from Susan G. Komen for the Cure; the Luminary Award from the Committee of 200; a Lifetime Achievement Award from the Volunteer Center of North Texas; and distinguished alumnus awards from the Hockaday School, Hollins University and Leadership Dallas.

In the 1980s she launched the Volunteer Connection, an enormously successful pilot project she created in the Dallas/Fort Worth area to promote volunteerism. The initiative, which was widely duplicated nationwide, received high honors from local and national leaders and earned the prestigious President's Volunteer Action Award. The project also earned Miss Hill a spot on the President's [Ronald Reagan's] Advisory Council on Private Sector Initiatives.

She describes her most recent business ventures as "philanthropreneurial." She is particularly proud of her work with the Garden of the Gods Park in Colorado Springs, where she summered as a child and still has a second home; her conservation efforts in the Arctic Ocean; and her new biomedical research company, Remeditex.

Spirited, candid, and unpretentious, Miss Hill sat down with us to talk about her past accomplishments and future ambitions.

Q: You are widely regarded as a trailblazer. You've already succeeded in so many different arenas, yet you continue to take on more every year. Where do you get your boundless energy?

You know, I think I was just born with it. I've never been a person who likes to sit still for very long. The older you get, the harder it is to stay in shape, so I exercise seven days a week and try to stay active year-round. I hike in the summer, ski in the winter, and do all kinds of things in between. I love a good challenge, and I try to stay on my feet. There are a lot of entrepreneurs like me, who don't like being in boxes, and I think that has continued to be one of the driving forces behind a lot of the things I do. I don't like being penned in.

Q: Who or what have been the greatest influences in your life?

In many ways I've modeled myself after my mother, who was always involved in so much. As a kid, I went along with her when she volunteered, and it just became a part of life. I remember her taking me to what is now Easter Seals, and how excited I was the day I got to crank letters through the postage machine. [The experience] also gave me the opportunity to work with disabled people, which I think made me look at things very differently.

Q: You've joined a handful of other great philanthropists, including Warren Buffett and Bill and Melinda Gates, in committing to giving away the majority of your wealth during your lifetime. Can you please explain how you arrived at such an important decision?

Warren Buffett and Bill Gates started an organization called The Giving Pledge last year with the realization that there were a whole lot of people who were philanthropic, but who might need peer support when deciding how and where to donate. They also thought they could encourage billionaires to become role models for others who are inclined to give. I was eager to join because I wanted to meet those folks and knew I could learn from them. I've also found that it's easier to make the money than it is to give it away right. We, as a group, can afford to do things that most people cannot, but with that comes a high level of responsibility. I have no qualms about giving all my money away, but I want to make sure it's done in a way that is truly impactful.

Q: How do you go about choosing a cause or organization to support?

I'm a bit of a risk-taker, so I sometimes seek out organizations that are underserved or projects that are off the beaten path. No matter who you are, I believe you have to look to the future, so I try to find ways that [my support] will help not just now, but 25, 30, 40, even 100 years into the future. I don't think people want handouts; they want opportunities to work, to preserve what they have, and to learn life skills. I always keep that in mind.

Q: You recently created a $100 million company, Remeditex, with the mission of developing early-stage biomedical science programs and making Texas an international hub for biotechnology. Please tell us about your passion for this field, and why you think it's so important for global advancement.

There's a big gap in getting work out of the lab and into a format that venture capitalists can invest in, so I created Remeditex as a means of filling that void. Scientists will tell you that, until you have someone who'll put some money into their research, it's not going anywhere. The reason for the gap is that the failure rate is so high, so most philanthropists simply won't take that level of risk, and traditional grants often run out before the research is commercially viable. Scientists refer to this gap in funding as the "the valley of death," because that's where so much research dies. We have many medical schools in Texas, but so much of the research being done just isn't seeing the light of day. I want Texas to be a hotbed of venture capital investments, and I want people to know that – if they want to invest in life science – this is where they need to be.

Q: The guiding principal behind the Lyda Hill Foundation is "Science is the answer." Can you please explain why this idea has become so central to your philanthropic life?

I truly believe that every issue our world faces – poverty, disease, climate change, or war – can be successfully approached in a scientific way. Whatever our problems are, science can help solve them. Even things that people don't conventionally link to science, like crime and other social issues, can be examined in a scientific way. I also think that science has so much to teach us – and it is often the one "truth" about which people can't argue.

Q: You have served a leadership role at Southwestern Medical Foundation for nearly two decades and were instrumental in guiding the publication of *Perspectives* magazine. Why have you continued to support the organization?

I'm practical. I love and need to see results, and Southwestern Medical Foundation helps UT Southwestern deliver them in spades. It has created thousands of jobs, produced great science, and pushed the boundaries of technology over and over again. It is a wonderful part of our community and one of the best medical institutions worldwide. You never know what you have at home until you travel, and I've traveled quite a bit. We have a jewel here in Dallas, and I want more people to recognize it.

Q: If you could have the opportunity to solve one problem related to health and medicine, what would it be?

I guess it would have to be cancer, which has touched my life in a very personal way. I was diagnosed with breast cancer and had my first mastectomy 33 years ago, and my family has lost a number of people younger than I am to the disease. And, frankly, cancer impacts everyone in some way. It is such a complex disease that I also think that when we find the answer to cancer, we'll find the answer to a lot of other things.

Q: You are a lifelong athlete and a vocal advocate of physical fitness. Please explain why you feel so strongly about exercise?

Science tells us that exercise helps you live longer; it's as simple as that. When you're fit, disease comes later in life and is less likely to take you down. And, beyond that, exercise is one of the things that makes you feel good about yourself, particularly in light of all the dietary challenges that Americans face. I also believe that our attitude about aging has a lot to do with how we age, and there's a large segment of the population that needs a change in attitude. It's not the number of facelifts; it's the number of workouts that is going to make the difference. You're given this body, and what you put in is what you're going to get out.

Q: You created the Volunteer Connection in our community years ago, which promoted volunteerism throughout the Dallas-Fort Worth area. What motivated you to start the organization, and what was the philosophy behind it?

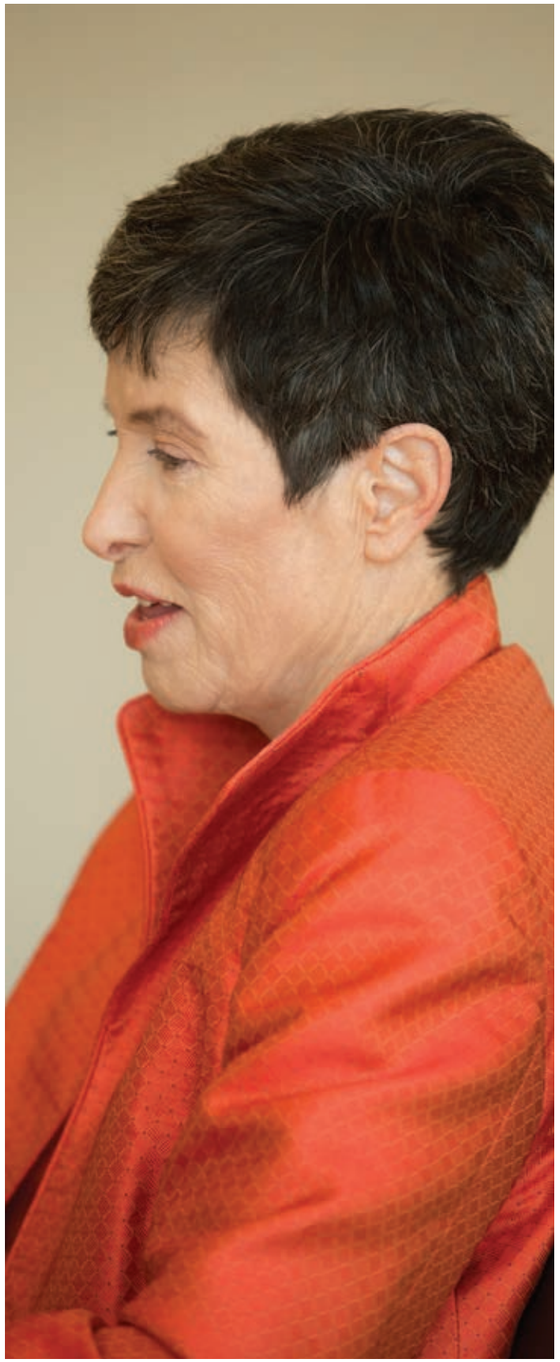
Everybody can volunteer; everybody can contribute. It's just a matter of figuring out what organization fits your priorities. Volunteer Connection really was created to solve a problem. In a mobile society like ours, there are a lot of people who want to volunteer, and a lot of agencies that need the volunteers, so we wanted to find a way to put them together. I initially just set out to prove that it could work, but it was so overwhelmingly successful that I didn't need to prove anything. The model eventually was replicated in 70 cities across America. Although the original Volunteer Connection is gone now, the need is still great, so we're creating a new organization – Voly – that will use social media to help people connect with each other and with volunteer opportunities. We need to reach young people and make them realize that the most fun you can have in life is to give to others. The real rewards come from what you give, not from what you get. It's an old saying, but anyone who has spent any time volunteering knows it's true.

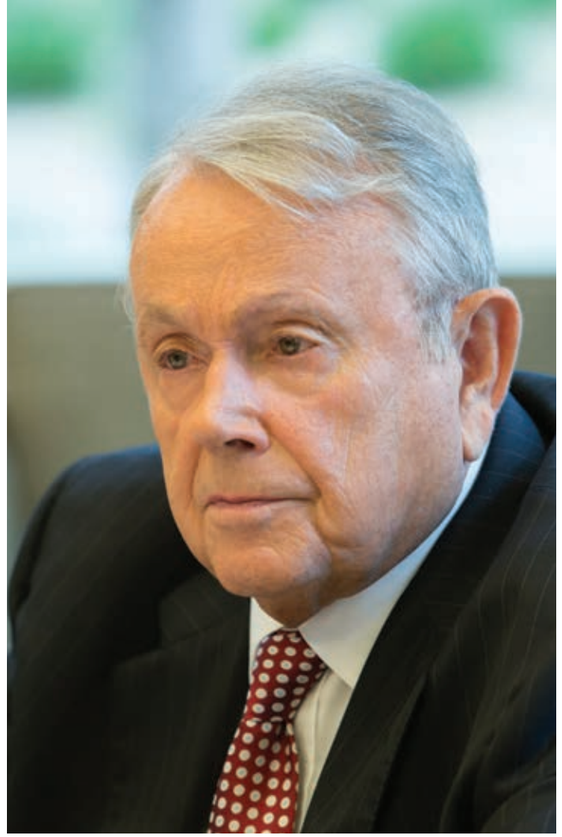
Q: What do you think the future holds for you personally?

I'm so excited, because there's so much to do. There's so much to learn. They say the older you get, the more you get like you – and I think that's definitely the case for me. I'm getting to explore things I've always loved – science and medicine. This is the next chapter in my life. The first, when I was young, was the learning chapter; and then I had the entrepreneurial chapter, when I concentrated on building businesses; and now I'm lucky enough to be in the philanthropy chapter.

Q: How do you feel about being honored with the Charles Cameron Sprague Community Service Award?

Being recognized by your peers is always the most special honor of all. I'm delighted that I've identified projects that people have wanted to be a part of through the years, and I've been fortunate to have led organizations that people have wanted to join. If you run in front of the band fast enough, you'll look like you're leading it! You have to get out there early! It is particularly wonderful to receive an award named for Charlie Sprague, who was a great leader. I'm also moved to be in the phenomenal company of all those who've received this wonderful honor ahead of me.





Ute and Rolf Haberecht:

Changing the world through technology

Fueled by imagination and an infectious enthusiasm for the wonder of invention, Dr. Rolf Haberecht and his wife, Ute, have spent much of their lives looking for ways to teach and inspire others.

With an unsurpassed passion for all things technological, the couple has infused the Dallas community with their creativity and commitment to educating the next generation of scientists.

Born and raised in Germany, the Haberechts made their home in Dallas more than 50 years ago, when Dr. Haberecht was recruited to work at Texas Instruments as a researcher. During his 22-year career with TI, he rose to corporate vice president, responsible for the company's worldwide semiconductor operations.

In 1984 he struck out on his own to co-found VLSIP Technologies, now a worldwide manufacturer of electronic medical modules. A lifelong inventor, he holds a number of patents, one of which is part of the Chip Collection in the Smithsonian.

Longtime champions of medical research, the Haberechts gave $1 million earlier this year toward construction of UT Southwestern Medical Center's new $800 million William P. Clements Jr. University Hospital. The couple has previously donated more than $4 million to the medical center, which has recognized them with the naming of the Rolf and Ute Haberecht Administration and Academic Center of the UT Southwestern Graduate School of Biomedical Sciences, the Rolf and Ute Schwarz Haberecht Deanship of the UT Southwestern Graduate School of Biomedical Sciences and the Haberecht Family Fund in Honor of Kern Wildenthal, M.D., Ph.D.

Perhaps their most personal project, the Haberecht Wild-Hare Idea Program, was created by the couple to foster speculative research based on innovative and controversial ideas. Begun by the couple more than a decade ago, the program has spawned many ideas, one of which has resulted in promising drugs to treat neurodegenerative disorders. These early-stage compounds may hold promise in fighting Parkinson's disease, Alzheimer's disease and cystic fibrosis.

Dr. Haberecht is a longtime member of the Board of Visitors for UT Southwestern University Hospitals & Clinics and the Southwestern Medical Foundation Board of Trustees. He is also a trustee of the Southwest Research Institute in San Antonio. He received his bachelor's degree from the University of Greifswald and a master's degree and doctorate in chemistry and physics from the Technical University in Berlin. Dr. Haberecht also holds a Master of Business Administration from Southern Methodist University.

Here, the couple reflect on their version of the "American Dream" and express their thoughts about the union of creativity and science.

Q: What brought you to the United States and, specifically, to the Dallas area?

Dr. Haberecht: It was my dream to live in this great country and pursue what is called the "American Dream." After completing university in Europe, I received an offer to work on semiconductor research in the U.S. I arrived in New York City via freighter! I eventually met Ute when I returned to Germany for a business trip, and we clicked. I had secured a junior engineering job at Texas Instruments in Dallas, and immediately after marrying, we moved to Texas. That was 51 years ago. Dallas became our home; we never moved away.

Q: Who or what have been the greatest influences in your lives?

Dr. Haberecht: I'd have to say my parents and grandparents, who stressed core values of education and integrity and reminded me to always do what I say I am going to do.

Mrs. Haberecht: Yes, I'd have to agree with Rolf. My parents and grandparents were big believers in working hard, doing your best, and giving back to others. I've tried to abide by those principles my whole life, and we've tried to instill those values in our children, as well.

Q: Dr. Haberecht, you've said that your career at Texas Instruments influenced your philosophy of giving back to the community. Can you please explain?

Dr. Haberecht: Yes, all of us at TI were very inspired to meet the challenging opportunities of exploring new semiconductor electronics, which changed the world and impacted everyone's lives. One day, Erik Jonsson, co-founder of TI, told me, "We are all coming to a point in our lives when we recognize that we have a responsibility to give back to our community with time and/or financial support." Ute and I understood his statement, and we took it from there.

Q: Dr. Haberecht, you are widely regarded as a true scientific pioneer and entrepreneur. Please explain how you developed your great interest in science and technology.

Dr. Haberecht: I have always been interested in connecting science and creation with reality, and I was lucky enough to have an opportunity to pursue my passion. I don't look at myself as a true scientific pioneer. I received a very strong education in basic science, which resulted in a job opportunity in the U.S., specifically to do basic research in the rapidly developing semiconductor industry – propelled by the transistor phenomenon discovered at Bell Labs. This discovery and field of research was advanced by Texas Instruments and others, who turned an amazing idea into a world-changing business.

Q: There is no question that technology has changed – and will continue to change – the world we live in. Dr. Haberecht, as an entrepreneur, you have explored technological applications in many different industries. How do you view technology's role in our society, and what inspired you to create your company, VLSIP?

Dr. Haberecht: Yes, technology has changed, is continuously changing, and will continue to change. One can look at this from a different angle, starting with the Industrial Revolution in 1765, with James Watts' steam engine. Next came Eli Whitney's cotton gin in 1793 and A.G. Bell's telephone in 1876. All of these were invented over a period of 111 years.

In 1879 Edison introduced the electric lights and ushered in the Electrical Age, a seven-decade span that saw the invention of the Benz gasoline engine, the electronic vacuum tube, and, in 1946, ENIAC [Electronic Numerical Integrator And Computer], a 100-foot long computer weighing 27 tons.

The invention of the transistor in 1947 ushered in the Electronic Age, which covered a three-decade span. This period gave us the first transistor radio, the microchip, the DOD [Department of Defense] Internet, the hand-held calculator, video games, wireless phones, the first international fax (six minutes per page) and the first implanted medical devices.

In 1977 we entered the Information Age, with Apple, IBM, single optical fiber and the World Wide Web. In 2000 the world had 600 million personal computers.

This brought us to the Bioelectronics Information Age, which – in a very short period of time – dramatically expanded to include miniaturization, major medical applications involving DNA, biocompatible implanted functions, and communications between the human body and doctors and researchers via electronic devices.

It's quite amazing when you understand how quickly things are changing. While it took more than a century for both the steam engine and the telephone to be invented, the world now is changing exponentially from decade to decade. The pace has just exploded.

It has always been my goal to participate as an entrepreneur in the ever-changing electronic world. With the unwavering support of Ute and our two children, I participated as an entrepreneur, co-founding VLSIP nearly 30 years ago. A large portion of the company's business is focused on medical devices used for cardiovascular disease, neuro-stimulation, and medical imaging, all of which are areas of enormous growth.

Q: The Wild-Hare Idea Program you established at UT Southwestern is among the medical center's most innovative and rewarding endowments. Can you please explain what motivated its creation?

Dr. Haberecht: Many great discoveries begin with imaginative, out-of-the-box ideas that are, as yet, far too controversial for traditional funding. Ute and I have always been impressed by the high quality of research being done at UT Southwestern, and this program is exciting because it provides an opportunity to help launch an idea that might otherwise disappear into the closet. Ute and I brought the Wild-Hare proposal to Dr. [Kern] Wildenthal and Dr. [Charles] Sprague nearly two decades ago, and it was enthusiastically accepted.

Mrs. Haberecht: We are very happy to see young scientists have a chance to explore where their novel ideas may take them.

Q: Mrs. Haberecht, you both have been great champions of education. Can you please explain the role that education has had in your own life, and tell us what educational opportunities you hope to create for others?

Mrs. Haberecht: My parents and grandparents were very much interested in books and education and instilled in my sisters and me the importance of both. I still hear my father's voice saying, "Education and books will open many doors for you and bring joy to your life." With this in mind, Rolf and I have supported education and educational institutions in the Dallas community such as the Lamplighter School, St. Mark's School, and the Episcopal School of Dallas with volunteer time and financial donations. Of particular interest to me was Erik Jonsson's visionary program to introduce computers to third and fourth graders at the Lamplighter School, in order to study student receptivity to learning with computers. The success of this project here in Dallas was reported on the front page of *The New York Times* in 1982, which was such a thrill for us. Today, computers are an integral part of everyday classroom life across the country, and we were very proud to be part of a pilot program that helped turn that wonderful idea into a reality.

Q: Dr. Haberecht, you have served a leadership role at Southwestern Medical Foundation for many years. Why have you continued to support the organization with such loyalty?

Dr. Haberecht: I have been privileged to serve at the Southwestern Medical Foundation in various leadership roles. This involvement has led to a great and sincere appreciation for, as well as loyalty to, both the Foundation and UT Southwestern. With the kind of high-quality research being done at the medical center, the possibilities are endless.

Q: What do you think the future holds for you personally – both as a couple, and as individuals?

Dr. Haberecht: We have our roots in the Dallas community. Our children, Michael and Caroline, were born and raised in Dallas. We fulfilled the American Dream here. Going forward, we will continue to support UT Southwestern and the Foundation and want to encourage others, including industries, to do the same.

Q: What was your reaction upon hearing that you were being honored with the Charles Cameron Sprague Community Service Award?

Dr. Haberecht: Ute and I do not expect accolades for the work we do, but this is a great honor that we are extremely proud to accept. After hearing of our nomination for this prestigious award, we were both humbled and practically speechless.

Mrs. Haberecht: Yes, this is a truly wonderful honor, made even more so because of how highly we think of Southwestern Medical Foundation's leadership. ■

the blossoming of BIOTECH

A profusion of patents is putting UT Southwestern discoveries on the landscape of investors.

WHEN DR. MICHAEL BROWN AND DR. JOSEPH GOLDSTEIN IN THE EARLY 1970S BEGAN THEIR RESEARCH ON THE LOW-DENSITY LIPOPROTEIN (LDL) RECEPTOR AND ITS ROLE IN CHOLESTEROL METABOLISM, THE SCIENTIFIC WORLD HAD NO IDEA THAT IT WOULD LEAD TO A NOBEL PRIZE.

Nor could the commercial world foresee the impact the discovery would have on the pharmaceutical industry – and the more than 20 million people across the globe who now take statin medications. Last year alone statins generated $34 billion in revenues; since being introduced two decades ago, statins have brought in a quarter of a trillion dollars.

Drs. Brown and Goldstein did not discover the statin drugs, however; that discovery was made by Dr. Akira Endo while at the Sankyo Co. in Tokyo. What Drs. Brown and Goldstein did was explain how the statins selectively lower LDL, or the "bad cholesterol." The mechanistic discoveries of the duo were used by Merck, Sharp & Dohme Research Laboratories in its rationale to develop the first commercial statin, which was approved by the Food and Drug Administration in 1987. Although Drs. Brown and Goldstein were instrumental in the development of statins, neither they nor UT Southwestern Medical Center shared in the enormous financial gains that went to the pharmaceutical companies.

At the time, Drs. Brown and Goldstein were not unlike other academic scientists who investigated the causes of disease and how to stem their course. Basic biomedical research at academic centers was barely a blip on the radar screens of investors, and the commercial potential of discoveries like Drs. Brown and Goldstein's often languished in relative obscurity in nonacademic circles.

In 1980 two senators looking to jump-start the promises held in biotechnology championed the Bayh-Dole University and Small Business Patent Act. Among other changes, it allowed universities conducting government-funded research to license inventions to industry, specifically to foster interactions between academia and the business community.

The Unmarked Road Ahead

"Most people didn't realize it at the time, but it was a major event in medical progress," recalled Dr. Kern Wildenthal, who became dean of UT Southwestern Medical School that year and six years later took over as president of the institution. "It meant that now institutions had an incentive to think about the commercial potential of their discoveries, and investigators did as well."

Under the new laws, institutions could determine how to divide the resulting income from a discovery. Once income exceeded expenses, the UT System agreed to let each institution and the researcher split the resulting income 50-50. Half of the university's income was split again, resulting in 25 percent for the originating lab and the remaining 25 percent for the general research fund. The percentages have subsequently changed slightly, but the basic idea remains – to create big incentives for the researchers and the university to uncover discoveries

Dr. Kern Wildenthal, who, along with Vin Prothro and Dean William Neaves, launched the biotech effort at UT Southwestern in the 1980s and has guided it to success for the past 30 years.

with a practical application – products such as medicines, instruments and equipment – and find ways to get them to the marketplace for the benefit of patients.

Excitement was high among just a handful of trailblazers as they started down the unmarked road ahead. But questions were voluminous. Foremost among them: How do you pick a winner? How do you know which discovery leads somewhere and, moreover, which of those that do lead somewhere can be turned into a product that others want to buy? Then, add to that the innumerable details of how to turn a discovery into an invention into a product into a sale – the monumental task faced by every entrepreneur.

Imagine all the pitfalls of scientific discovery and its rather ponderous processes of trial and error injected into the struggle to persuade capital investors to be willing to build a successful production and manufacturing company around those discoveries. Intimidating, certainly, but fortunately not insurmountable.

"The real challenge is to decide which unexpected result really is meaningful and which unexpected result is a mistake," said Dr. Brown, who now directs the Erik Jonsson Center for Research in Molecular Genetics and Human Disease. "Of course 99 percent of these observations are not significant. It's only the rare one that leads to a real breakthrough." Dr. Brown also holds the W.A. (Monty) Moncrief Distinguished Chair in Cholesterol and Arteriosclerosis Research and, along with Dr. Goldstein, who is chairman of molecular genetics, shares the Paul J. Thomas Chair in Medicine. They are both UT System Regental Professors.

In 1987, (from left) Vin Prothro, Dr. William Neaves and Philip O'B. Montgomery III stand in front of the land that will become UT Southwestern's North Campus.

UT Southwestern began by creating an Office of Technology and Development. It was a central hub designed to identify potential prospects and researchers, inform and educate those scientists to the potential commercialization of their discoveries, and start to navigate the capital investment waters to fund a venture.

Dallas Business Steps In

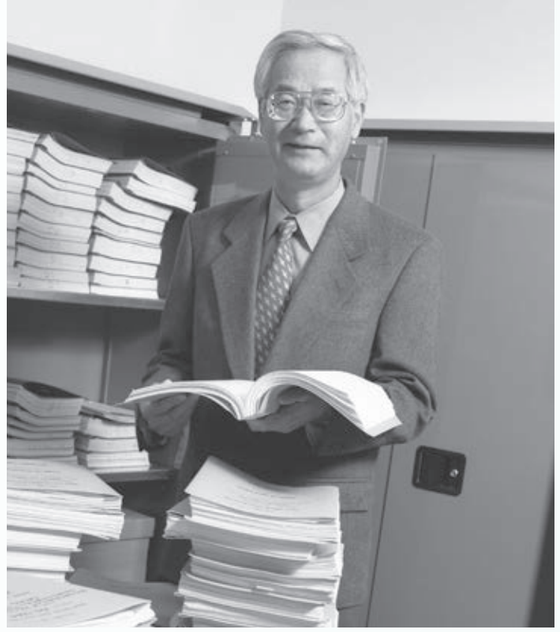
It was clearly a task larger than UT Southwestern could shoulder alone. Dallas' business community had already become aware that successful examples were regional efforts, where technology interests could cluster and generate the needed workforce. Dallas leaders naturally focused on the already maturing electronic and semiconductor industries, but stayed open when approached about the opportunity represented in biotechnology. By 1986 Dallas Mayor A. Starke Taylor had created a Biotechnology Task Force, headed by the late C. Vincent Prothro, a leading philanthropic force in the city and founder, chairman and CEO of Dallas Semiconductor Corp.

"The more seeds you sow, the more flowers are likely to bloom ... look carefully at your seedlings and nurture the most promising ones."

– Dr. Kern Wildenthal

After quickly assessing that UT Southwestern would be the natural centerpiece of any biomedical commercialization in Dallas, Mr. Prothro pulled together an intricate network of investors, ranging from the Cullum Companies and Trammell Crow Partners to Lomas & Nettleton Financial Corp. and Montgomery Companies, and civic leaders such as William T. Solomon, S. Roger Horchow, Peter O'Donnell Jr., Edwin L. Cox and Charles N. Prothro. From that emerged Dallas Biomedical Corp., which raised $12.5 million in equity financing to commercialize biomedical and biotechnological development projects. The private, for-profit corporation guaranteed its investors' principal and used only the interest earned on the principal as seed money for developing new products – more than $1 million annually at the time. It was one of the first organizations of its kind in the country.

A handful of companies evolved, but a downturn in interest rates left little to put into them and of that handful, only GeneScreen, a DNA testing company, turned a small profit. Dallas Biomedical eventually returned the principal and a modest dividend to investors, but not before UT Southwestern's biotechnology trailblazers had learned critical lessons for the next round.



Dr. Charles Y.C. Pak and his research team's findings culminated in the development of Citracal and Urocit-K.

"The modeling principle was sound. The more seeds you sow, the more flowers are likely to bloom. The lesson learned from the Dallas Biomedical experiment was, if you only have so much fertilizer to go around, look carefully at your seedlings and nurture the most promising ones," Dr. Wildenthal and his successor as dean of Southwestern Medical School, Dr. William Neaves, wrote later of the initial effort.

Beyond needing more projects from which to grow successes, they realized they would need more investment money, a longer time horizon to develop biomedical discoveries into FDA-approved products, and a cadre of biotech business managers.

Learning Along the Way

Dr. Charles Y.C. Pak had been recruited to UT Southwestern in 1972 to lead the General Clinical Research Center and to head a new division in mineral metabolism as part of the Department of Internal Medicine. Throughout his career, he has remained a world leader in the research and development of treatments for both kidney stones and osteoporosis.

He and his research team in UT Southwestern's mineral metabolism group have carefully studied more than 3,000 kidney stone patients and another 3,500 individuals with osteoporosis during the past four decades. The findings culminated in the development of several drugs used worldwide – including Citracal for the prevention of osteoporosis and Urocit-K for the control of kidney stones – as well as widely recognized diagnostic methods for measuring the risk factors for kidney stones. His resume includes developing three FDA-approved orphan drugs for kidney stones, uncovering metabolic causes for stone formation, and devising a multitest kit for individuals at risk for forming kidney stones. In 1988 he received the United States Public Health Service Award for Exceptional Achievement in Orphan Products Development and the Bartter Award from the American Society for Bone and Mineral Research.

"Not only was Charlie Pak the first to realize the potential, have the interest and be successful, his inventions as a whole have produced more money than any other single individual, and his invention of Citracal is the single product that has produced the most money for the school," Dr. Wildenthal said.

In addition to funding his own research, Dr. Pak used a substantial portion of his personal part of the royalties to create the Charles Y.C. Pak Foundation, which has generously fueled innovative research by others at UT Southwestern. He is past director of the Charles and Jane Pak Center for Mineral Metabolism and Clinical Research, which he also helped fund and was named in his and his wife's honor. He continues to work part-time at UT Southwestern, devoting his attention to several additional research projects that he hopes to bring to the marketplace in the next several years.

"I did it for the research and the direct impact it could have on improving patients' lives," said Dr. Pak, who now directs the Neill Walsdorf Sr. Biotechnology Center in Mineral Metabolism and holds the Alfred L. and

"Not only was Charlie Pak the first to realize the potential, have the interest and be successful, his inventions as a whole have produced more money than any other single individual."

– Dr. Kern Wildenthal

Former UT Southwestern vice president for technology development Dr. Dennis Stone is now chief scientific officer and a director for Remeditex.

Muriel B. Rabiner Distinguished Academic Chair for Mineral Metabolism Biotechnology Research. "I also made a commitment early on to put a part of what I earned from my inventions back into research at the university."

Cultivating New Seedlings

Dr. Pak's success served as inspiration as well as guidance for UT Southwestern's next venture. Knowing they needed more seedlings to spread, UT Southwestern expanded the Office of Technology Development and launched a new initiative to engage faculty members and help them patent their discoveries.

During Dr. Stone's tenure, he and his team launched six start-up biotechnology companies that collectively raised more than $500 million in financing.

By the early 1990s, the initiative was showing results – a steady increase in patents, licensing agreements, and the resulting revenues from intellectual property. In almost all years, UT Southwestern has ranked first in Texas among all universities and medical centers in the number of its patent licenses and the income generated from them. Since 1984, more than 1,400 UT Southwestern researchers have been named as inventors on more than 1,800 invention disclosures, yielding a total of more than 500 issued U.S. patents. Revenues from more than 600 licenses for the use of technologies created at UT Southwestern have generated hundreds of millions of dollars in revenue for the institution and its scientists.

In 1998 Dr. Dennis Stone, former professor of internal medicine, physiology and biochemistry, was appointed vice president for technology development. His office was charged with directing licensing operations, overseeing the biotechnology development initiative and serving as liaison with pharmaceutical and biotechnology companies interested in partnership with UT Southwestern scientists. During Dr. Stone's tenure, he and his team launched six startup biotechnology companies that collectively raised more than $500 million in financing. Dr. Stone, who participated on the boards of directors of Eliance Biotechnology, Myogen, miRagen Therapeutics, MacroGenics, and Reata Pharmaceuticals, also served as the chairman of the UT System Board of Regents' Technology Transfer Commission and was vice chairman of the board of the Texas Emerging Technology Fund Life Science Regional Center of Innovation and Commercialization.

The Brightest Star

The formation of Reata Pharmaceuticals, an Irving, Texas-based biopharmaceutical company that launched in 2002, born from UT Southwestern research, along with statewide and international business partnerships, kicked off a new era and shines as its brightest star to date.

The public-private partnership was the culmination of a three-year effort to assemble top-tier technologies into a broader and more focused company. The company launched with seven sets of technologies, each of which could be an entity unto itself, and focused on technologies that can be advanced through a single management platform, explained Dr. Stone. Among Reata's founding scientists are Dr. Jef DeBrabander, professor of biochemistry in the Harold C. Simmons Comprehensive Cancer Center and holder of the Julie and Louis Beecherl Jr. Chair in Medical Science; Dr. Jonathan Graff, professor of developmental biology and molecular biology; Dr. Thomas Südhof, first director of UT Southwestern's Center for Basic Neuroscience and now a Howard Hughes Medical Institute investigator at Stanford University; Dr. Philip Thomas, professor of physiology and holder of the Ruth S. Harrell Professorship in Medical Research; and Dr. Jerry W. Shay, professor of cell biology and holder of the Southland Financial Corporation Distinguished Chair in Geriatrics.

Reata is now a leader in developing a novel class of oral anti-inflammatory drugs, Antioxidant Inflammation Modulators (AIMs), which are potent activators of the biological transcription factor Nrf2. The transcription factor controls the body's production of hundreds of antioxidants and is associated with protection against a broad range of diseases of inflammation and oxidative stress.

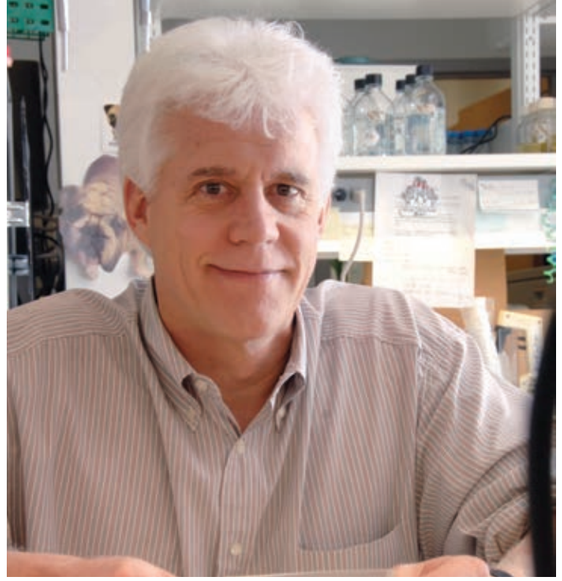
Reata's lead product, bardoxolone methyl, has been shown in Phase 2 studies to increase estimated glomerular filtration rate (eGFR) and improve several other markers of kidney function in patients with chronic kidney disease (CKD), which commonly occurs in patients with diabetes and hypertension. The disease affects more than 26 million Americans, including more than 450,000 patients with end-stage renal disease. CKD is a serious and progressive condition that ultimately leads to the need for dialysis or transplant and is also associated with a dramatic increase in the risk of cardiovascular disease and death. Bardoxolone methyl was advanced to a global Phase 3 study in patients with advanced CKD and type 2 diabetes in 2011. The primary endpoint the study will measure is time to either end-stage renal disease, defined by the need for dialysis or renal transplant, or cardiovascular death.

Behind this lead program, Reata is developing a portfolio of second-generation AIMs for additional diseases of inflammation and oxidative stress. Beyond kidney disease, a number of studies have demonstrated activity of Reata's AIMs in models of autoimmune, respiratory, cardiovascular, metabolic and central nervous system disorders, as well as organ transplant.

Since 1984, more than 1,400 UT Southwestern researchers have been named as inventors on more than 1,800 invention disclosures, yielding a total of more than 500 issued U.S. patents.

In December 2011, Abbott Laboratories and Reata announced a worldwide collaboration to develop and commercialize Reata's portfolio of second-generation oral AIMs. The global agreement includes a large number of molecules in a range of therapeutic areas, including pulmonary, central nervous system disorders and immunology. Abbott and Reata are equally sharing costs and profits for all new AIMs in all newly licensed indications, except for rheumatoid arthritis and certain other autoimmune diseases. The deal also includes a research agreement in which the companies will work together to discover new molecules that exhibit the same pharmacology as the AIMs already in Reata's pipeline.

BioCenter at Southwestern Medical District.



Dr. Eric Olson has helped found a series of biotech startups, including LoneStar Heart.

As part of the agreement, Abbott made a one-time license payment of $400 million to Reata, which had launched with just $5 million.

A New Biotech Park

UT Southwestern's efforts to advance biotechnology didn't rest on its laurels. Instead, in 2008 it seized on its growing patent base and the resulting revenue to break ground on a biotech park called "BioCenter at Southwestern Medical District," located on a 13-acre site – now 15.5 acres – at Forest Park and Inwood Road that was purchased with profits UT Southwestern received from its technology transfer program.

Within a year of announcing its launch, BioCenter at Southwestern Medical District received a Momentum Award from the Dallas Regional Chamber – its Technology Catalyst Award – which is presented to a company or organization working to develop and encourage new technology that yields economic growth.

BioCenter's core missions are to develop UT Southwestern technologies to the point of commercialization and to provide commercial space for existing or startup life-science companies based in the Dallas-Fort Worth region. Within BioCenter is a bioinstrumentation unit that is responsible for custom fabrication of instruments and devices for faculty and companies using the facility. Also located within BioCenter is a small incubator unit called Pipeline, a resource center that can house early-stage spinoff companies headed by faculty members. Companies that use Pipeline have access to common laboratory equipment, outfitted labs and the bioinstrumentation unit, as well as office space and cubicles. Experts are on hand to assist with financing issues and business plans. BioCenter received a five-year, $750,000 grant from Dallas-based AT&T in 2008 to foster development of Pipeline, which includes supporting entrepreneurship and faculty education about business issues.

Nurturing Promising Projects

In 2011, after BioCenter at Southwestern Medical District had opened, Dr. Stone left UT Southwestern to join Remeditex Ventures, a private entity that has taken on another unique niche in the biotechnology market by targeting investment in very early-stage, innovative projects that are judged to have commercialization potential. The firm's goal is to help investigators establish their commercial viability, making further investments more attractive to traditional venture capitalists. So rather than serving as a classic venture capital fund or an additional source for basic scientific discovery funding, Remeditex seeks to develop the "middle ground" and provide opportunities to promising projects in need of commercial validation, guidance and capital.

"There's a big gap in getting work out of the lab and into a format that venture capitalists can invest in, so I created Remeditex as a means of filling that void," explained philanthropist and entrepreneur Lyda Hill, the founder of Remeditex as well as president of the Lyda Hill Foundation, a philanthropic foundation that supports efforts to provide greater insight into nature and science. "I want Texas to be a hotbed of venture capital investments, and I want people to know that – if they want to invest in life science – this is where they need to be."

Dr. Stone, who serves as chief scientific officer and a director, said the company expects to have a number of UT Southwestern affiliations among its lineup.

"There is a true pent-up need that we have been able to take advantage of and help with," Dr. Stone said of Remeditex.

The company, which launched in 2011, began by investing more than $7 million in Peloton Therapeutics' efforts to develop cancer-related drug therapies. The company, founded by Dr. Steven McKnight, chairman of biochemistry at UT Southwestern, used the Remeditex funding along with $11 million in supplemental funding from the Cancer Prevention and Research Institute of Texas (CPRIT).

No novice to biotech development, Dr. McKnight left academia in 1991 to co-found Tularik, a San Francisco-based biotechnology company devoted to the discovery of drugs designed to treat disease through the regulation of gene expression. Dr. McKnight later moved from Tularik to UT Southwestern, bringing with him valuable knowledge of the workings of the biotech industry.

"There is spectacular biotech research going on at UT Southwestern, enough to foster dozens and dozens of companies."

– Dr. Steven McKnight

"Scientists are not necessarily businessmen. They may have a passion, but not experience. You have to find good leadership that has experience and someone who knows how to build a company," said Dr. McKnight, who holds the Sam G. Winstead and F. Andrew Bell Distinguished Chair in Biochemistry and the Distinguished Chair in Basic Biomedical Research.

Growing Successful Companies

Dr. Eric Olson, chairman of molecular biology and one of the world's leading experts in the developmental biology of the heart, has helped found a series of biotech startups. Dr. Olson directs the Nearburg Family Center for Basic and Clinical Research in Pediatric Oncology and holds the Pogue Distinguished Chair in Research on Cardiac Birth Defects, the Robert A. Welch Distinguished Chair in Science, and the Annie and Willie Nelson Professorship in Stem Cell Research.

Dr. Olson co-founded Myogen, which was acquired by Gilead Biosciences in 2006 and was one of the top five largest biotech acquisitions at the time. Dr. Olson also founded Miragen Therapeutics – a company dedicated to developing a new class of drugs that target microRNAs – based on intellectual property from UT Southwestern. Miragen has entered in a collaborative partnership with Les Laboratories Servier, a leading European pharmaceutical company, with upfront payments and milestones valued at approximately $1 billion.

Dr. Steven McKnight, with backing from Remeditex and CPRIT, founded Peloton Therapeutics.

Most recently, Dr. Olson helped found LoneStar Heart, a Texas- and California-based biomedical company developing new therapies to preserve and restore adequate heart function in patients with advanced heart failure. The privately held company is developing products to restore the failing heart's structure and function in collaboration with UT Southwestern, the Texas Heart Institute and a global network of leading clinicians. Its products include Algisyl-LVR, small molecule cardiac stem-cell modulators, and cellular and genetic therapies delivered as stand-alone treatments, or in combination with the company's proprietary biopolymer hydrogel matrix system.

LoneStar Heart most recently announced the advancement of a new therapy aimed at genetic reprogramming of cardiac fibroblasts into functioning heart muscle cells to treat damage following a heart attack and other forms of heart disease. The announcement followed a study conducted by UT Southwestern researchers that appeared in the journal *Nature*, demonstrating feasibility of the approach. The company has acquired exclusive worldwide rights to the new technology.

The success of these companies has laid the foundation for a burgeoning industry in the city. Within the next two years, Dallas is expected to host a satellite of the U.S. Patent and Trademark Office.

"Every successful biotech region began at some point and had to grow over a period of time. We are relatively small compared to long-established clusters of biotech companies in the industry, such as in Boston and the Silicon Valley, but we are growing," said Dr. Lawrence (Joe) Allred, UT Southwestern assistant vice president for venture development. "Will we expand at light speed? No, I don't think so. But I think it will continue to increase at a faster and faster rate."

Other trailblazers concur.

"It's like drilling for oil. It's risky and expensive," Dr. McKnight said. "But if you hit oil in the Permian Basin, you won't be drilling alone there. If there's one successful company, others will follow. It's encouraging. There is spectacular biotech research going on at UT Southwestern, enough to foster dozens and dozens of companies." ■

WILD RISKS

BETTING ON SOLID SCIENCE YIELDS SPECTACULAR REWARDS

Betting on the long shots in science can be risky, but if one wants to play the odds, researchers at UT Southwestern Medical Center have a powerful track record, proving that they are the ones to bet on.

Both the "Haberecht Wild-Hare Idea Program" and the "High Risk/High Impact Research Grant Program" were established by philanthropists who were convinced that taking a chance on the "long-shot" ideas of some of UT Southwestern's best minds may produce a spectacular payday in the health arena.

Philanthropists Dr. Rolf Haberecht and his wife, Ute Schwarz Haberecht, established the Haberecht Wild-Hare Idea Program in 1996 to foster speculative research based on innovative and controversial ideas. The program has spawned numerous visionary ideas, one of which has resulted in a novel drug that formed part of the base for establishing a new pharmaceutical company, Reata Pharmaceuticals, which has become very successful.

"I have always believed in imagination and innovation – in thinking differently and outside the margins of what is conventional," said Dr. Haberecht. "One of the great challenges with conducting research of any kind is that it's difficult to get funding when the research is novel and relatively unexplored. Ute and I understand that these young ideas can bring about great things, and we thought the Wild-Hare Program would be a good way to provide seed money for projects that otherwise might die before they got off the ground."

One Wild-Hare success story stars Dr. Jay Schneider, associate professor of internal medicine, who received $37,500 in 2004 for a "High Throughput Screen for Cardiogenic Small Molecules." Dr. Schneider proposed applying cutting-edge, high-profile technologies – differentiation of cultured embryonic stem cells and high throughput chemical library screening – to solving the fundamental problem of cardiac stem cell fate.

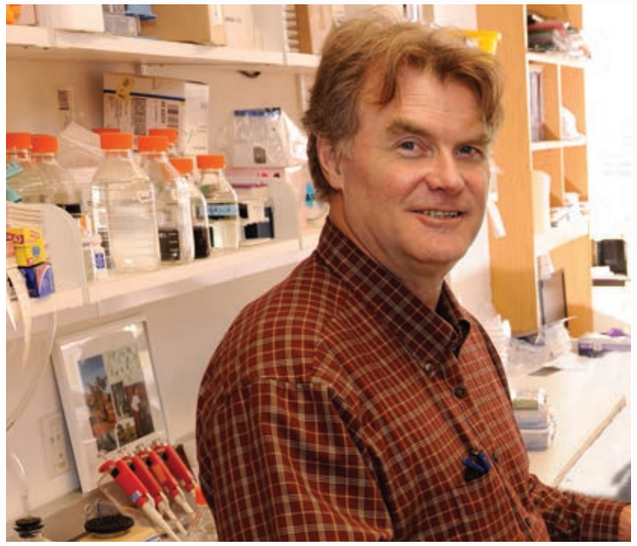
The chemical library screening was successful, yielding a veritable treasure chest of novel small molecules having confirmed biological activities in embryonic stem cells. This research led Dr. Schneider, along with Dr. Jenny Hsieh, associate professor of molecular biology, to create in 2008 a small molecule that stimulates nerve stem cells to begin maturing into nerve cells in culture. The development might someday allow a person's own nerve stem cells to be grown outside the body, stimulated into maturity, and then re-implanted as working nerve cells to treat various diseases.

Dr. Schneider had another brainstorm and used drug-treated blood stem cells to repair heart damage in an animal model, results that might point to methods for healing injuries from heart attacks or disease. Despite medical advances in treating and preventing heart attacks, once the heart is damaged it does not repair itself, said Dr. Schneider. "The clinical potential is enormous," he said of the findings, which were published in *Proceedings of the National Academy of Sciences*.

In a similar vein, the High Risk/High Impact Program was started in 2001 by an anonymous donor to "provide seed dollars for bold unconventional projects that are not yet mature enough for federal grant submissions."

"The idea is to fund a concept and give enough money to see if someone's idea has potential. It is literally a 'seed' program," said Dr. David Russell, vice provost and dean of basic research for UT Southwestern Medical School and a member of the National Academy of Sciences. "The National Institutes of Health expects a large amount of preliminary data – completion of 20 percent to 25 percent of the proposed research before you even submit a grant application. This has been true for the last 10 years. The desire to fund 'sure bets' has resulted in a shortage of funds for certain projects. The NIH is not likely to say, 'Let's take a flyer.'"

One of the most recent High Risk/High Impact grantees is senior faculty member Dr. Philip Thomas, professor of physiology and holder of the Ruth S. Harrell Professorship in Medical Research. He is proposing using ribonucleic acid as a sensor to follow metabolism and gene expression in cells.



Dr. Philip Thomas

Dr. Jay Schneider and Dr. Jenny Hsieh.

"This has never been done before," said Dr. Russell, who leads the committee that evaluates submissions. "Everyone who read the proposal was entranced with the creativity of the idea. Dr. Thomas has the necessary skills to put the idea into effect. It's brilliantly simple; that's the quintessential idea behind the program. When an application impresses all of the committee, it's almost certainly a winner."

Interestingly, Dr. Thomas was in the first group of grantees for the Wild-Hare Program 16 years ago. Then he proposed developing a new pharmacological approach to the treatment of genetic diseases caused by improper folding of mutant proteins. His study yielded results that were presented at several international meetings and contributed to the development of an assay – funded by another Wild-Hare grant in 1999 – for screening compounds for effect on protein folding in a novel genetic system. Results were published in *Nature Biotechnology*.

"These programs are very competitive – most recently attracting 37 applicants in the biannual request for proposals – with only a few funded in each year," said Dr. Russell, who holds the Eugene McDermott Chair in Molecular Genetics. "It's enough money to test an idea, but not enough money to follow it up. If the idea works, it can be funded through another agency. It's a sign of the times that we are getting lots of applications from senior faculty as well as junior faculty and trainees – all great ideas, all new ideas." ■

UNDERSTANDING BIOLOGICAL SYSTEMS

Lyda Hill, O'Donnell Foundation Gifts Expand Center

Supporters of UT Southwestern Medical Center often share common long-term goals with the researchers on campus, from finding cures for diseases to solving fundamental mysteries of biology.

Lyda Hill and the O'Donnell Foundation are two such ardent supporters who gave a combined gift of $12 million earlier this year to expand the work of scientists in the Cecil H. and Ida Green Comprehensive Center for Molecular, Computational and Systems Biology. The new Lyda Hill Endowment for Systems Biology was established by a gift from Miss Hill in response to a challenge grant from the O'Donnell Foundation.

Miss Hill, a self-described "philanthropreneur," has provided leadership to the nonprofit community for more than 35 years. The president of LH Holdings and an honorary trustee of Southwestern Medical Foundation, Miss Hill said she is confident that her gift will enable UT Southwestern to "attract great minds who will expand our understanding of science and its applications to daily life."

Established in 2004, the Green Center was initiated by a $12.8 million gift from the Cecil H. and Ida Green Foundation. Scientists affiliated with the center link basic research on molecules and cells with analysis of how entire biological systems function, both in health and in sickness.

Systems biology research draws on experts who work from small to large scales at the interface between physics, engineering, math, computer science and biology. They come together to create models of biological systems that consider not only how individual parts such as molecules, cells and tissues work together to create an organism, but also how those organisms react to one another and to changes in their environment.

DR. RAMA RANGANATHAN

"A fundamental problem that limits our understanding of living things is to explain how the process of evolution can put together and maintain such complex, high-performance systems."

"A fundamental problem that limits our understanding of living things is to explain how the process of evolution can put together and maintain such complex, high-performance systems," said Dr. Rama Ranganathan, director of the center and holder of the Cecil H. and Ida M. Green Chair in Biomedical Science. "The gifts by Lyda Hill and the O'Donnell Foundation reflect a clear understanding that in order to move forward in biological science and medicine, we need to solve this problem, and they are committed to being a part of the solution."

In the past seven years, Green Center researchers have met all the traditional benchmarks of success, including making important scientific discoveries, publishing papers that have significant impact, and attracting external research grants. In order to expand the scope of its programs, however, the center needed to recruit additional scientists, which in turn required an increase in its endowment, Dr. Ranganathan said.

The new gifts will allow the center to attract top-flight faculty whose research and scientific philosophies mesh with the conceptual framework of the center: testing the overarching hypothesis that there are common principles of biological design and evolution that cut across spatial scales.

"This hypothesis can't be tested by any one individual," Dr. Ranganathan explained. "For example, my research focuses on how proteins are put together, while other faculty members investigate genetic circuits within cells or the underling dynamics of the brain. We believe there are some common features in the designs of these systems that emerged through evolution."

Dr. Ranganathan earned his bachelor's degree in biomedical engineering from the University of California, Berkeley, and his medical and doctoral degrees from UC San Diego. He completed postdoctoral research at Harvard University and the Salk Institute for Biological Studies. He joined the UT Southwestern faculty in 1997.

Other faculty members with primary appointments to the Green Center for Systems Biology include Dr. Steven Altschuler, associate professor of pharmacology and a W.W. Caruth Jr. Scholar in Biomedical Research; Dr. Robin Hiesinger, associate professor of physiology and a Eugene McDermott Scholar in Medical Research; Dr. Gurol Suel, associate professor of pharmacology and a W.W. Caruth Jr. Scholar; and Dr. Lani Wu, associate professor of pharmacology and a Cecil H. and Ida Green Scholar in Biomedical Computational Science. All of these researchers joined the UT Southwestern faculty as part of the Endowed Scholars in Medical Science program.

The most recent addition to the Green Center is well-acquainted with scientific excellence and is well-known to UT Southwestern supporters: Nobel laureate and longtime faculty member Dr. Johann Deisenhofer, professor of biophysics and holder of the Virginia and Edward Linthicum Distinguished Chair in Biomolecular Science. He moved his activities to the center in June.

"This new Lyda Hill Endowment for Systems Biology will be recognized as the essential element for exceptional medical scientists whose research is providing new knowledge to understand human health," said Peter O'Donnell, chairman of the O'Donnell Foundation and one of Texas' most generous and far-sighted supporters of medical, engineering, and scientific research and education. "Our foundation's support and endorsement of this center represents our desire to help push forward the boundaries of scientific and medical inquiry. The research from this center will be the foundation for breakthroughs in cancer and Alzheimer's disease and the other most pressing medical needs of our time. I hope others will join us in this support of scientific innovation at UT Southwestern." ■

THE 'SPIRIT OF MEDICAL WISDOM'

TAKES HOLD IN DR. THOMAS HEYNE

Ho Din is a Greek acronym representing "the spirit of medical wisdom," and Southwestern Medical Foundation has given the award annually since 1943. The Ho Din Award, which includes a certificate, a key charm, and $7,500, honors Dr. Edward H. Cary, the first president of Southwestern Medical Foundation. Winners are recognized for exhibiting outstanding knowledge, understanding and compassion.

Dr. Thomas F. Heyne's vision has no borders. In the medical field, his career goal is to provide as much care as possible to "the poorest of the poor." In the spiritual realm, Dr. Heyne operates under the same 24/7 clock of joyful dedication and example-based leadership.

The Dallas native's thirst for ever-expanding experiences and knowledge, along with his faithful global health care sightline, helped make Dr. Heyne the 2012 recipient of Southwestern Medical Foundation's Ho Din Award – the highest honor given to a graduating student of UT Southwestern Medical School.

Linda Wertheimer Hart, vice chairman and CEO of The Hart Group and a trustee of Southwestern Medical Foundation, presented the award at commencement ceremonies June 1.

"Tommy Heyne is a force of nature," said Dr. Angela Mihalic, associate dean for student affairs. "He has been instrumental in the creation and invigoration of many student initiatives. His leadership, tenacity, commitment, and determination to leave no stone unturned in pursuit of his passions and goals are unparalleled.

"The most remarkable part is that his passions and goals are always centered on serving the poor and addressing health care disparities. Tommy has always chosen the road less traveled, and I believe he will make all the difference to patients across the globe."

Dr. Heyne, the sixth of eight children, grew up in a household steeped in medicine, strong faith, and service to the poor. His father is Dr. Roy Heyne, professor of pediatrics, who leads the Low Birth Weight Clinic at Children's Medical Center Dallas. His mother is Dr. Elizabeth Heyne, a physician assistant who recently returned to school to earn a doctorate of psychology.

"God has really blessed my family, and everyone feels the need to give back," the younger Dr. Heyne said. "My parents are incredible. They sacrifice everything for their children and their patients. I have seven siblings; two are doctors and two are Catholic nuns. Most have or will have doctoral degrees, and all use their talents to serve others."

Dr. Heyne, past president of the Dallas chapter of Alpha Omega Alpha, the national medical honor society, also earned the 2012 Rolland C. Reynolds Pathology Award. The Reynolds Award, which includes $1,500, honors the UT Southwestern pathology professor who was revered for his sincere interest in his fellow man and for his desire to make the world a better place.

"You meet a lot of students in the course of teaching at a medical school. There are some you will never forget. Tommy is easily at the top of this list," said Dr. Dan Sepdham, assistant professor of family and community medicine who was Dr. Heyne's mentor in the medical school's Sprague College. "Tommy is intellectually brilliant and a talented writer. Despite all of this, Tommy remains humble and very teachable. This is a truly rare combination of characteristics.

"Tommy has a servant's heart, and he really cares about people, especially the less fortunate. It has been a blessing and a privilege to know him."

The 2002 valedictorian of Dallas' Cistercian Preparatory School, Dr. Heyne graduated from the University of Dallas with a 4.0 grade-point average and degrees in biology and history before earning a Master in Theological Studies from the University of Oxford in England, also at the top of his class. He then went to Spain, completing a U.S. Fulbright Fellowship in religious studies, before starting medical school at UT Southwestern in 2008.

Despite more than a decade of attaining nothing lower than an "A" for academic work, he kept his aspirations in check.

"I began med school thinking 'C equals M.D.'; in other words, if I can just barely pass, I can still be a doctor," he said. "If I have accomplished anything, it is because of the prayers and support of my family, mentors and friends. The opportunities and help I have been given are totally undeserved."

Without hesitation, Dr. Heyne filled his days with studies and activities. He volunteered and translated at several local health fairs and clinics; helped organize events for the homeless; sent numerous donated medical supplies overseas; and volunteered as an assistant chaplain at Parkland Memorial Hospital. He also launched a new student group, the St. Basil the Great Society, to spur discussion of diverse topics such as AIDS in Swaziland or the symbiosis between religion and medicine in history. One of his humanities-based papers won first place in the 2011 Bander Essay Contest in Medical Business Ethics.

He graduated from UT Southwestern with a 4.0 GPA and has relocated to Boston for a combined internal medicine/pediatrics residency at Massachusetts General Hospital, the teaching hospital for Harvard Medical School.

"I didn't know I would enjoy medical school so much," Dr. Heyne said. "I didn't realize that it could be the best of Sherlock Holmes and Mother Teresa, wrapped in one profession. The best times were the days and nights on the Parkland wards. Caring for patients is a truly awesome and humbling privilege."

Winner of the 2010 Martin Luther King Jr. Scholarship for Community Service at UT Southwestern, Dr. Heyne also revived the Global Health Interest Group. During breaks in medical school, he made medical mission trips to Peru, Haiti, Honduras, Uganda, Ethiopia, India, and the poorest areas of Mexico.

"Mother Teresa's particular call to serve the 'poorest of the poor' and to do it with a cheerful smile has always resonated deeply with me," Dr. Heyne said. "There are certainly poor who need help in our city and in our country, but I feel a special call to help those in even more dire need overseas." ■

Dr. Heyne acknowledges the Ho Din Award at UT Southwestern's 2012 commencement ceremony, after receiving the award from Southwestern Medical Foundation Trustee Linda W. Hart. Presiding over the ceremony is Dr. Daniel K. Podolsky, president of UT Southwestern.

In Good Company

Annual meeting of trustees

Tony Hausler and Kristin Whitley with Paul Harris

Walt Humann with Dr. Donald Seldin

Larry Lebovitz with Kathleen Gibson

Bob Kaminski, Bob Dedman, Berry Cox and Mac Tichenor

2012 Annual Meeting of the Board of Trustees of Southwestern Medical Foundation

Foundation trustees and UT Southwestern officials gathered May 15 to review 2011 financial reports and to hear about the medical center's plans for the coming year, including progress on the construction of the William P. Clements Jr. University Hospital. But before the meeting got under way, Chairman of the Board William Solomon offered a stirring tribute to Dr. Kern Wildenthal, thanking him for his four years of service as president of Southwestern Medical Foundation. After the standing ovation for Dr.Wildenthal subsided, board members elected eight new trustees; voted on the recipients of the 2012 Charles Cameron Sprague Community Service Award, which will be presented at the annual dinner Oct. 3; and confirmed the 2012 Ho Din recipient.

Karen Shuford and Dr. Kern Wildenthal

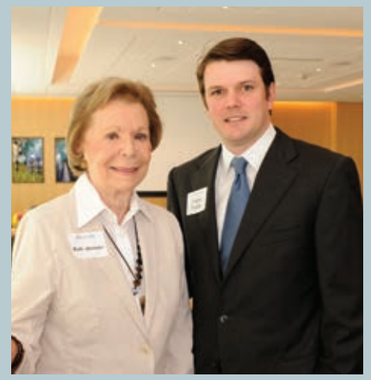
Sandra Estess and Gifford Touchstone

Mary Stewart Ramsey, Bill McIntyre and Marilyn Augur

Bill Solomon and Emmitt Smith

Robert Best, Dan Branch and Ralph Babb

Thomas Heyne, 2012 Ho Din recipient



Ruth Altshuler and Anders Fisher

Dr. Kern Wildenthal is honored by trustees.

Making a Difference

Southwestern Medical Foundation is grateful to the many foundations, corporations and individuals who provide generous support. These major contributions are just a few of the gifts received from friends of the Foundation and medical center.

From left, Robert H. Dedman Jr., Rachael Dedman, Nancy McMillan Dedman, W. Bobby Nail and Patricia Dedman Nail

DEDMAN FOUNDATION

The Dedman Foundation, a longtime benefactor of UT Southwestern, has donated $1 million to help build the medical center's new William P. Clements Jr. University Hospital.

The Dedmans, one of Dallas' most generous philanthropic families, have supported higher education, public charities, civic organizations and medical institutions for more than two decades. In 2009 the foundation gave Southwestern Medical Foundation a landmark $12 million to establish the Dedman Family Endowed Program for Scholars in Clinical Care at UT Southwestern. The gift was matched to create a $24 million endowment.

The Dedman Foundation was created in 1995 by the late Robert H. Dedman Sr. Its latest gift was made to Southwestern Medical Foundation as part of the medical center's *Building the Future of Medicine* campaign.

Robert H. Dedman Jr., chairman of the Dedman Foundation, said UT Southwestern is one of the foundation's principal beneficiaries because of its vital contributions to the region.

"Like many Dallas families, we believe in the importance of investment in the medical community," said Mr. Dedman, who serves on the *Building the Future of Medicine* campaign steering committee. "Having a state-of-the-art teaching hospital, also integrally involved in the best patient care, will benefit the entire Dallas community. The way the hospital is being designed will add to the quality of teaching new doctors and will impact patient care in a significant way."

The Dedmans and their foundation have made numerous gifts to other Dallas institutions, including to Southern Methodist University's Dedman School of Law, Dedman College Interdisciplinary Institute in the Dedman College of Humanities and Sciences, and Dedman Center for Lifetime Sports. The Dedman School of Hospitality at Florida State University is named in honor of Robert H. Dedman Sr., who died in 2002. UT Austin established the Dedman Merit Scholars program, thanks to the family's support.

Robert H. Dedman Sr. founded Dallas-based ClubCorp, a leading operator of golf courses, private clubs and resorts, in 1957. He received numerous honors throughout his career, including Texas Entrepreneur of the Year in 1976, Dallas Humanitarian of the Year in 1980, Texas Business Hall of Fame in 1987, and the Horatio Alger Award in 1989.

Nancy McMillan Dedman was married for 49 years to the late Mr. Dedman. She has served on the UT Southwestern University Hospitals & Clinics Board of Visitors, the board of the Shelter Ministries of Dallas, and the Salvation Army Advisory Board. She also is a supporter of the Dallas Museum of Art, the Texas Ballet Theater, and the AT&T Performing Arts Center. She was honored with the Annette G. Strauss Humanitarian Award in 2004.

Robert Dedman Jr., former chairman of the board of ClubCorp, is the general partner of Putterboy, Ltd., and president and chief executive officer of the Dedmans' family office, DFI Management, Ltd. He serves on the boards of trustees of Southwestern Medical Foundation, SMU, the Hockaday School, Advanced Placement Strategies, the O'Donnell Foundation and the Dallas Museum of Art.

Mr. Dedman's wife, Rachael, is actively involved in the Crystal Charity Ball and serves on the boards of Boys & Girls Clubs of Greater Dallas, Meadows School of the Arts at SMU and the Sweetheart Ball, an event that provides funds for heart research to UT Southwestern.

Patricia Dedman Nail is the daughter of Nancy Dedman and the late Mr. Dedman. She spent 15 years in private practice as a psychotherapist and has taught at SMU. She has been involved in Dallas Contemporary.

The Dedman family was named recipient of the 2009 Charles Cameron Sprague Community Service Award.

SHIRLEY POLLOCK

A longtime friend of UT Southwestern, Shirley Pollock bequeathed $1 million to Southwestern Medical Foundation to further support research into cancer of the intestinal tract.

The gift will be added to the Lawrence S. Pollock Jr. Center for Intestinal Cancer Research, which was established in 2001 with a $1 million gift from the Pollock Foundation.

Mrs. Pollock's husband, Dallas business and civic leader Lawrence Pollock Jr., was chairman of the board of Pollock Investments and head of Pollock Paper, a company his father founded nearly 90 years ago. Mr. Pollock died of cancer in 2000. Mrs. Pollock died in 2008.

"Shirley Pollock was a very bright, forthright woman, and clearly the matriarch of her family," said Dr. Eugene Frenkel, professor of internal medicine and radiology, and friend and medical advisor to Mrs. Pollock. "She combined social skills with significant financial savvy. Family members with inflammatory bowel disease led her to explore the sequel of these problems, and that eventually expanded into an interest in gastrointestinal cancer. She felt that these diseases did not get the recognition they deserved, saying they were 'far too unglamorous to discuss.'

"She wanted her efforts (and finances) to have a positive impact and wanted action and results from her participation and interests. She pressed me to stimulate our respective teams in gastroenterology and oncology to move with crisp focus and speed. All was done with charm and wit, but with a background of serious intent."

Dr. Frenkel started UT Southwestern's first division of hematology/oncology and served as its chief for 30 years. He holds the Elaine Dewey Sammons Distinguished Chair in Cancer Research, the Raymond D. and Patsy R. Nasher Distinguished Chair in Cancer Research, and the A. Kenneth Pye Professorship in Cancer Research, all established in his honor.

Shirley Pollock

Mrs. Pollock's philanthropic ventures extended to a wide variety of civic organizations, including the Dallas Museum of Art, the Visiting Nurse Association, Friends of the Dallas Public Library, the Meadows Museum at Southern Methodist University, and Planned Parenthood. She was a longtime trustee of Southwestern Medical Foundation.

Through the years, the Pollocks and the Pollock Foundation have given more than $3 million to aid programs at UT Southwestern. In addition to the Center for Intestinal Cancer Research, the foundation established the Pollock Family Center for Research in Inflammatory Bowel Disease with a $1 million donation in 2000. In 2008 Mrs. Pollock created the Shirley P. Pollock Scholarship Fund at Southwestern Medical Foundation with a $50,000 gift.

PATRICIA ALFORD BOX

As a nurse, Patricia Alford Box knew the value of quality medical care and dedicated her life to helping others. Her desire to create a lasting legacy inspired her to leave her entire estate to Southwestern Medical Foundation, a bequest totaling $407,352.

Her generosity will support research into chronic lymphocytic leukemia at UT Southwestern. It was a disease she was all too familiar with and which claimed her life in May 2011 at age 78 after a lengthy and courageous battle. Chronic lymphocytic leukemia is a type of cancer in which the bone marrow makes too many lymphocytes (white blood cells). It is the second-most common type of leukemia in adults.

A lifelong Texan, Ms. Box was born in Beaumont and moved with her family to the town of Springhill at an early age. After high school, she attended nursing school at the Parkland Memorial Hospital School of Nursing, which Texas Woman's University took over in 1954.

Ms. Box started her first job as a nurse at Roy H. Laird Memorial Hospital in Kilgore and then moved to Good Shepherd Medical Center in Longview. She later worked as an occupational health nurse at the Joseph Schlitz Brewing Co. in Longview for 33 years until her retirement.

A self-described "workaholic," Ms. Box was known to say that she never met a stranger. She enjoyed reading and gardening and dedicated much of her time to volunteering at her church, Trinity Episcopal Church, in Longview. Her passion for helping patients during her lifetime will now be perpetuated through the clinical advances her gift will make possible.

VIN AND CAREN PROTHRO FOUNDATION/ PERKINS-PROTHRO FOUNDATION

Two family foundations with deep UT Southwestern roots, the Vin and Caren Prothro Foundation and the Perkins-Prothro Foundation, have made a joint $250,000 gift to Southwestern Medical Foundation to support construction of the medical center's new William P. Clements Jr. University Hospital, scheduled for completion in 2014.

The late Vin Prothro and his wife, Caren, have been instrumental in helping UT Southwestern reach some its most defining milestones. Mr. Prothro, the founder, former chairman and CEO of Dallas Semiconductor Corp., played a pivotal role in helping the medical center obtain the land for its North Campus. A plaza connecting three biomedical buildings on the North Campus, named the C. Vincent Prothro Plaza and Gardens, was dedicated in honor of the business and civic leader in 2001, one year after his death.

"I know Vin loved his association with UT Southwestern and all who have made it the institution it is," said Mrs. Prothro. "I especially appreciate the leadership of Joe Prothro, chairman of the Perkins-Prothro Foundation, in agreeing to participate in this project. We are all glad to make this investment in the new Clements Hospital, which will be state-of-the-art when completed."

Mrs. Prothro has continued to serve as a civic and philanthropic leader at Southwestern Medical Foundation, where she is a longtime trustee, and at other institutions throughout Dallas. She has earned numerous honors for her civic contributions, including the prestigious Linz Award, the most prestigious civic award in Texas.

In 2002 the Dallas-based Vin and Caren Prothro Foundation gave $5 million to endow the C. Vincent Prothro Center for Research in Basic Neuroscience at UT Southwestern. In 1985 Mr. Prothro personally raised $12.5 million in venture capital to launch Dallas Biomedical Corp., a company that invested in startup biotech initiatives at the medical center during the 1980s and early 1990s. He also served for more than a decade as chairman of the Friends of the Center for Human Nutrition, which contributed more than $2 million under his leadership for nutrition research at the medical center. The couple also made several personal gifts to the medical center over the years and received Southwestern Medical Foundation's Charles Cameron Sprague Community Service Award.

Mr. Prothro's parents, Charles and Elizabeth Perkins Prothro – who founded the Perkins-Prothro Foundation in Wichita Falls, Texas – began the family tradition of philanthropy and service decades earlier. The elder Mrs. Prothro was the daughter of the late Joe J. and Lois Perkins, who were founding contributors to Southern Methodist University in 1913, and later, in the early 1940s, endowed the SMU Perkins School of Theology, named in their honor. She died in 2009, after giving millions to educational institutions across Texas – most notably to SMU, where she created and fortified countless programs.

Patricia Alford Box

Caren Prothro

Dixie Jones cares for patient Anne Dalton.

Charles Prothro, who died in 2001, was the owner of the Perkins-Prothro Co., which he founded prior to World War II with his father-in-law, to manage the family's oil, natural gas and cattle ranching interests.

DIXIE S. JONES FOUNDATION

Dixie Jones, a registered nurse who earned her degree from St. Paul School of Nursing in Dallas, wanted to ensure that children suffering from debilitating, life-threatening health ailments would receive the care they needed. After her death in April 1991, the Dixie S. Jones Foundation Testamentary Trust was designed to do just that.

Through the efforts of her lifelong friend and estate administrator, Willetta Stellmacher, the Dixie S. Jones Foundation has made numerous donations to charitable children's causes. Most recently in 2012, gifts were made to a variety of organizations, including $150,000 to Southwestern Medical Foundation.

After working in the pediatric department of New York City's Bellevue Hospital Center, Ms. Jones' desire to help children and their families live the best lives possible under the most dire of circumstances led her to establish the Jones Children's Haven, a residential permanent care facility in Dallas. She worked to improve the care of children afflicted with maladies such as Down syndrome, spina bifida, chronic encephalitis and cerebral palsy.

ROSALEE AND JAMES MCCONNELL

Rosalee and James McConnell, the parents of a highly respected former UT Southwestern faculty member,

Rosalee and James McConnell

bequeathed $150,000 to endow a professorship in Alzheimer's disease research at the medical center.

The gift to Southwestern Medical Foundation, which was made in the form of a charitable remainder trust, has created the Rosalee G. and James M. McConnell Professorship in Alzheimer's Disease Research.

The McConnells' son, esteemed urologist Dr. John McConnell, served on the faculty of UT Southwestern from 1984 to 2008, where he held positions as chairman of urology and executive vice president for health system affairs.

Mr. McConnell died in 2002, shortly after his wife was diagnosed with Alzheimer's.

Concerned for their mother's welfare, Dr. McConnell and his siblings, David McConnell and Julie Holt, began exploring investment options and making plans for her future health care needs.

"My parents had both worked most of their career for Amoco, which eventually became BP," explained Dr. McConnell, who left UT Southwestern in 2009 to become the president and CEO of Wake Forest Baptist Medical Center in North Carolina, an academic medical center that includes the highly regarded Wake Forest School of Medicine as well as one of the most prestigious health systems in the Mid-Atlantic region. "We learned at the time of my father's death that they essentially had their entire life savings in the form of highly appreciated BP stock, which – if liquidated – would have been a major capital gains tax event. Working with Southwestern Medical Foundation, we set up a charitable remainder trust, to which we donated most of our mother's stock. Over the next eight years, the remainder trust provided the income needed to pay for Mom's skilled-nursing facility requirements and other needs.

"My brother, sister and I were attracted to the guaranteed nature of the income for Mom, as well as the opportunity to help other families who are dealing with Alzheimer's disease through patient care, research and education. Both of my parents had a place in their hearts for UT Southwestern and a real appreciation for the value of research, so my family felt that this contribution would be a fitting tribute to both of them. Mom's initial diagnosis of Alzheimer's was made at UT Southwestern, and our family is very grateful for the professional care she received."

Mrs. McConnell died in 2010.

Mr. McConnell had his college dreams short-circuited by World War II. Pursuing his love of science, he became a quality-control laboratory technician for a small refinery in rural Kansas, where he and his wife raised their family. He eventually joined Amoco, where, at the time of his retirement, he was directing analytical testing services at the company's large research facility in suburban Chicago.

Once the couple's children were through grade school, Mrs. McConnell went to work as an administrative assistant at Amoco, and ultimately retired as assistant to the president of the company's research and development division. ■

Strong Support

The Foundation's Board of Trustees added eight new members to its roster at its annual meeting in May. These civic and business leaders have committed their talents and resources to enhancing medical research, education and patient care in North Texas, and now they are sharing those talents with the Foundation.

Robert W. Best

When Robert W. Best moved to Dallas to head Atmos Energy Corp. as chairman, president and CEO in 1997, he was aware of how well UT Southwestern is regarded throughout the country.

"It is known as a place of excellence," said Mr. Best, who now serves as executive chairman for Atmos, one of the nation's largest natural-gas distributors with 3.2 million customers. "Its scientists, faculty and students are held in the highest regard."

When asked to join the Southwestern Medical Foundation board, the medical center's prestigious national reputation as well as his wife's experience as a UT Southwestern patient led him to accept the post.

"My wife had the opportunity to see some of the doctors there, and we were impressed with their responsiveness and professionalism," he added.

Mr. Best has been active in numerous civic, industry and charitable organizations, including acting as past chairman of the American Gas Association and its foundation, as well as the Dallas Regional Chamber of Commerce. He is a board member and past chairman of The Senior Source in Dallas and remains on the advisory board of the Maguire Energy Institute at Southern Methodist University's Cox School of Business. He is a current director of the State Fair of Texas. He also served as a director of the United Way of Metropolitan Dallas and the SMU Tate Lecture Series.

He received his undergraduate degree from Indiana State University and a law degree from the University of Indiana in 1974. He has served as general counsel and in various top positions at a number of natural gas firms.

Eric Johnson

As a new Texas legislator, State Rep. Eric Johnson has taken a particular interest in education, serving on the House Committee on Higher Education as well as the special House and Senate Joint Oversight Committee on Higher Education Governance, Excellence and Transparency.

He has served as a tutor and mentor in the Dallas schools, frequently speaking to classes on career day, and launched the West Dallas C.A.M.P. (Community Ambassador Mentoring Program) a year before his 2010 election. The program pairs West Dallas elementary school students with mentors who can help prepare them to succeed inside and outside of school.

The Harvard University graduate knows the value of education, and this belief is one of the reasons he joined the Southwestern Medical Foundation board.

"UT Southwestern and its graduates play an incredibly important role in our community. I am very honored to have the opportunity to support their work by joining the Foundation board," Rep. Johnson said.

The Dallas attorney received his law degree from the University of Pennsylvania in 2003 after graduating *cum laude* from Harvard in 1998. Rep. Johnson owns his own Dallas law firm and practices in the fields of public finance, commercial banking, corporate finance and technology.

Rep. Johnson was elected in a special election April 2010 and re-elected to the post in November 2010. He also serves on the House Committee on Appropriations. His honors include being named the Dallas Regional Chamber's first ever recipient of the Courage in Public Service Award.

He and his wife, Nakita, live in Forest Hills.

Pauline Medrano

Dallas City Councilwoman Pauline Medrano put development of the Southwestern Medical District high on her list of priorities during her seven years on the city council. So accepting a post on the Southwestern Medical Foundation board was a logical move.

"I understand the importance of a first-rate medical/research institution for the city of Dallas," she said.

Ms. Medrano, now serving as mayor pro tem, took the lead in getting Motor Street renamed Medical District Drive and has enthusiastically supported infrastructure needs for the area. The lifelong Dallas resident said her father, community activist Francisco "Pancho" Medrano, set her on the path of community service, and her motto is "your success is determined by how many you help."

She received a Bachelor of Arts from UT Arlington in 1976 and graduated from Leadership Dallas, a program aimed at training young professionals to take leadership positions. She has served as a district sales manager for GTECH Corp., district director for the Texas Department of Agriculture and as a congressional aide to former U.S. Rep. Martin Frost.

Ms. Medrano chairs the Public Safety Committee and formerly chaired the Domestic Violence Task Force for the city of Dallas. She is a director on the boards of the National Association of Elected Officials and Friends of Esperanza "Hope" Medrano Elementary School, which is named in honor of her mother.

David B. Miller

David B. Miller brings his considerable investment savvy and his support for higher educational institutions to the Southwestern Medical Foundation board.

The managing partner and co-founder of EnCap Investments began his career with Republic National Bank of Dallas, ultimately serving as vice president and manager of the bank's wholly owned subsidiary, Republic Energy Finance Corp. From 1988 to 1996 he was president of PMC Reserve Acquisition Co., a partnership owned by EnCap and Pitts Energy.

Mr. Miller graduated from Southern Methodist University with bachelor's and master's degrees in 1972 and 1973 and continues to be a strong SMU supporter, serving on its board of trustees and the executive board of the Cox School of Business.

He and his wife, Carolyn, established the David B. Miller Family Foundation in 2006 and have made contributions to SMU and numerous charitable causes. Their philanthropy included establishing a scholarship fund for U.S. military veterans, as well as an annual scholarship because of their strong desire to help students achieve their dream of attending SMU in the midst of economic challenges.

Mr. Miller is a former starter on the SMU varsity basketball team and a member of its 1971-72 Southwest Conference co-championship team. In 2002 he was appointed to the National Petroleum Council, an advisory body to the Secretary of Energy.

Guillermo Perales

Dallas businessman Guillermo Perales heads a restaurant franchise business that ranked among the top 50 Hispanic companies in the nation even before it added 51 Arby's Restaurants to its menu of franchises this past July.

His Sun Holdings, listed as the 29th largest Hispanic firm in the U.S. before the purchase, now manages 171 Burger King, 72 Popeye's, 48 CiCi's Pizza, 33 Golden Corral and seven Del Taco restaurants, in addition to the Arby's units.

Mr. Perales, CEO and president of Sun Holdings, started his business with just one Golden Corral restaurant in Dallas in 1997. His restaurants today are spread across eight states with most in the Dallas, Houston, and Orlando and Tampa, Fla., markets, and account for nearly 10,000 jobs.

During the years Mr. Perales has been growing his restaurant business, he has made a commitment to communities like Dallas, where he acquired and operates restaurants.

"I have long felt that a business cannot truly thrive without taking an active hand in cultivating strong communities," Mr. Perales said. Serving on the Southwestern Medical Foundation board, as well as numerous other civic, educational and restaurant industry boards, is a part of that philosophy.

He co-founded the Latin American/DFW Fund for Latino-based programs and initiatives. To help keep Latino students in school, he created a Certificate of Achievement Award Program. His restaurants give away almost 5 million free meal certificates every year to students because he believes "improving education among Latinos is crucial."

Mr. Perales graduated with high honors from the Instituto Tecnologico y de Estudios Superiores de Monterrey, then earned a master's degree from Texas A&M University.

Kelly E. Roach

Kelly E. Roach attended the University of Colorado Boulder, where he received a Bachelor of Arts in Political Science, then earned his Juris Doctor from Oklahoma City University in 1992. Upon graduation, he joined his father John "Jack" Roach in the practice of law. The firm focuses primarily on oil and gas law, estates and trusts.

Mr. Roach has served on various local youth sports boards and committees, including the YMCA and the North Dallas Chamber of Commerce. In 2003 Mr. Roach was appointed to the board of directors of Hamon Charitable Foundation and recently became president of the foundation.

His father was the longtime attorney and friend of Jake L. Hamon and his wife, Dallas philanthropist Nancy Hamon. Mrs. Hamon was a generous supporter and contributor to various art, education and health causes in the city of Dallas, including making significant contributions to the Dallas Museum of Art, UT Southwestern, Children's Medical Center Dallas and the Booker T. Washington High School for the Performing and Visual Arts.

The Hamon Charitable Foundation, through its board of directors, has recently pledged a significant grant to the Children's Medical Center Research Institute at UT Southwestern.

"Serving on the Southwestern Medical Foundation board was a natural fit," said Mr. Roach. "UT Southwestern was a primary interest of Nancy Hamon. I hope the continued relationship with UT Southwestern and the Hamon Charitable Foundation will benefit not only the residents of North Texas, but also will enable the medical center to continue to be recognized as a world leader in medical research. The Hamon Foundation strives not only to continue furthering the causes and interests of Mrs. Hamon, but also will focus on those philanthropic endeavors that were important to her husband, Jake L. Hamon."

Mr. Roach, a native Dallasite, is a member of the State Bar of Texas and the Dallas Bar Association. He and his wife, Holli, reside in Dallas. They have three sons, one in college and two in high school.

Emmitt Smith

As president and CEO of Emmitt Smith Enterprises, Mr. Smith has created a multifaceted company involved in construction, real estate, marketing the Emmitt Smith brand, and – along with his wife, Pat – the Pat & Emmitt Smith Charities. Its core businesses include E.J. Smith Construction, which specializes in heavy highway development, such as bridges and commercial construction, and ESmith Legacy, which deals in commercial real estate.

His third annual Emmitt Smith Celebrity Invitational Golf Tournament raised more than $500,000 this year for the charity. As a result, the charity was able to select 10 deserving children for the inaugural class of its TEAM 22 program. The program will provide a year-round curriculum for underserved students, offering them opportunities such as summer camp, educational trips and leadership training.

"Our motto is: Building Bridges to Open Doors," Mr. Smith said. "Emmitt Smith Enterprises is about bringing people together and creating opportunity."

The former Dallas Cowboys star running back earned his fame for scoring touchdowns on the football field. Mr. Smith played for 12 seasons with the Cowboys, contributing to three Super Bowl victories for the Dallas team. He retired in February 2005 and was inducted into the Pro Football Hall of Fame in 2010. He is the NFL's all-time leading rusher with 18,355 yards.

As a performer on "Dancing With the Stars," he still wanted to get the ball – the mirror-ball trophy. He won that trophy in November 2006 and will try to conquer the dance floor again in the upcoming "Dancing With the Stars: All-Stars" competition pitting past DWTS contenders against each other.

He graduated from the University of Florida with a bachelor's degree in public relations.

Catherine Blaffer Taylor

Catherine Blaffer Taylor, a native Dallasite, has lived in many places and held a variety of jobs from draftsman to mother and entrepreneur.

She was born in Dallas while her father was in the Armed Services during World War II, and, when he returned, the family moved first to Washington, D.C., then to Houston. In 1968 she received a bachelor's degree in architecture from Cornell University and started as a draftsman in Boston and later in New York City, where she worked for the renowned architect Philip Johnson.

After being laid off during an economic downturn, she moved back to Houston and began a "surprisingly profitable" business as a swimming instructor working out of her parents' backyard pool. A short time later she married. She and her then husband, a lawyer, moved to New York, then back to Texas, where she raised her son and two daughters in Midland.

Eventually Ms. Taylor returned to Dallas where she handled various investments, including motels, rent houses, oil and gas properties, banks, parking lots and timberland that she purchased or inherited. One daughter, K.T. Taylor, is a bronze sculptor, and the other, Christie Taylor, is a student working on her Ph.D. in microbiology. Her son, Van Taylor, serves as a State Representative from Plano in the Texas House of Representatives. His interest in politics is shared by his mother, who serves as precinct chairman in her Devonshire neighborhood.

In addition to politics, Ms. Taylor's primary passions are the fine arts and medicine. She is an active member of the Meadows Museum at Southern Methodist University. As a breast cancer survivor, she is especially interested in other women who deal with cancer. Having been a patient at several medical centers in Texas, she said, "What sets UT Southwestern apart from the others is the unfailingly kind, patient and supportive staff. The doctors and nurses have a level of commitment that puts them above and beyond. It is their deep concern for the well-being of their patients that makes UT Southwestern the outstanding institution that it is today." ■

By Randal Daugherty

Planned Giving

Expiring tax law creates financially favorable opportunity to give

Congress passed a tax law in 2010 that increased the amount a person could give to loved ones from $1 million to $5 million without incurring any gift tax. For 2012, the amount has increased to $5.12 million per person. This means a couple can give up to $10.24 million now to family members without owing any gift tax. Estate planning advisors are encouraging their clients to take advantage of this opportunity to make significant gifts to family before the law is scheduled to expire at the end of 2012.

Leverage a significant gift tax exemption through a charitable lead trust

A charitable lead trust is a powerful estate-planning tool that works in concert with the $5.12 million exemption to allow one to address philanthropic goals and pass assets to family members at little or no transfer costs. Through a charitable lead trust, a donor can provide a current gift to Southwestern Medical Foundation for the benefit of UT Southwestern Medical Center for a predetermined number of years and then transfer assets to his or her heirs at greatly reduced costs. In fact, a charitable lead trust can leverage the current exemption so that one can pass more than $5.12 million to loved ones without paying any gift tax.

Even in strong economic times, the charitable lead trust is an attractive estate-planning option. These economic times are far from normal. There are several factors that make today an ideal time, perhaps the best time ever, to consider a charitable lead trust:

- The gift and estate tax exemptions are set to expire at the end of 2012.
- The low-interest-rate environment produces higher tax deductions on gifts to lead trusts.
- As the investment environment improves, trust assets may grow. Any appreciation of the trust will pass to family members without any additional gift or estate tax.

A charitable lead trust can be established by transferring assets such as cash, stock, bonds or income-producing real estate to a trust that will last for a predetermined number of years. The trust will provide a gift of a select amount annually to Southwestern Medical Foundation and then, when the trust terminates, distribute principal to heirs named in the trust at little or no transfer cost.

The following is a scenario that may be applicable to many as we draw near the end of the year and the tax law expires. It involves someone who wants to use all of his gift tax exemption before year's end.

Scenario

Dr. Smith has made several gifts to family members within the past year. He meets with his estate-planning attorney to discuss how to utilize the remaining $2.5 million of his $5.12 million exemption. He also wishes to make a major gift to Southwestern Medical Foundation to advance work at UT Southwestern. His attorney shows him how, through a charitable lead trust, he can leverage the unused portion of his exemption and pass much more than the remaining $2.5 million to his family, while at the same time making a significant gift to UT Southwestern.

Because he is willing to transfer enough assets to use his remaining exemption, Dr. Smith can transfer $8 million into a charitable lead trust without triggering any gift or estate tax. This is how it works: He specifies that UT Southwestern will receive $400,000 a year from the trust for the next 15 years; then, at the trust's termination, his children will share equally in the trust principal. By making a gift to Southwestern Medical Foundation of $6 million over the next 15 years, he is entitled to a charitable gift tax deduction of $5,546,040 and will owe no tax on this amount. The taxable gift that Dr. Smith has made to his children has been reduced from $8 million to $2,453,960. He can use his remaining $2.5 million exemption against this taxable gift, therefore owing no gift tax.

Assuming the trust investment returns 7 percent annually during the 15-year trust term, the trust will have $12,020,644 for Dr. Smith's heirs at its termination. When the trust expires, the assets in the trust, including any appreciation of those assets, will pass to his children without any gift or estate taxes. ■

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A Springboard to the Future of Biomedical Commercialization

The first building of the four-building complex known as "BioCenter at Southwestern Medical District" opened its doors in 2010 on a 15.5-acre site on the UT Southwestern East Campus. Designed to be an engine for development and marketing of innovative treatments and medical device technologies, BioCenter will eventually comprise four connected buildings, as shown in this rendering. The complex will include 400,000 square feet of laboratory and office space customized for biotechnology and medical device companies, many of which will be involved in the commercialization of UT Southwestern discoveries.