

A large, stylized, light gray star graphic is positioned in the lower-left quadrant of the page. It is composed of several overlapping, semi-transparent geometric shapes that form a five-pointed star. The background of the entire page is a light blue gradient with a large, faint, semi-transparent circular shape on the right side.

The Academy of Medicine, Engineering & Science of Texas

Celebrating Texas as the State of Science & Innovation

**2012 NEW MEMBER
WELCOME RECEPTION**

ABOUT TAMEST

The Academy of Medicine, Engineering and Science of Texas (TAMEST) was established in 2004 by Senator Kay Bailey Hutchison and Nobel Laureates Dr. Michael S. Brown and the late Dr. Richard E. Smalley to provide broader recognition of the state's top achievers in medicine, engineering and science, and to build a stronger identity for Texas as an important destination and center of achievement in these fields. TAMEST members include Texas' 10 Nobel Laureates and members of the three National Academies (Institute of Medicine, National Academy of Engineering and National Academy of Sciences).

In 2011, TAMEST welcomed 17 new members, representing the largest annual increase in the history of the organization. Six of these new members were Texans who were elected to one of the National Academies, and 11 became members when they relocated to the state. Additionally, three current members were elected to a second National Academy, bringing the number of TAMEST members with this distinction to 20. Also in 2011, The Methodist Hospital Research Institute joined TAMEST as the sixteenth institutional member.

86 members have been inducted into the National Academies or have relocated to Texas since the inception of TAMEST

WELCOME AND OPENING REMARKS

Dr. Stephen A. Holditch (NAE),
2011 TAMEST President

INTRODUCING NEW MEMBERS FROM INDUSTRY

American Bureau of Shipping

Dr. Donald Liu (NAE) *introduced by*
Dr. Stephen A. Holditch (NAE), Director,
Texas A&M Energy Engineering Institute

The Dow Chemical Company

Dr. James C. Stevens (NAE) *introduced by*
Dr. David Bem, Global R&D Director,
The Dow Chemical Company

Exxon Mobil Corporation

Dr. Jeffrey S. Beck (NAE) *introduced by*
Sara N. Ortwein, P.E., President,
Exxon Mobil Upstream Research Company

Rochal Industries

Dr. Joseph C. Salamone (NAE) *introduced by*
Ann Beal Salamone, President, Rochal Industries

INTRODUCING NEW MEMBERS FROM ACADEMIC AND RESEARCH INSTITUTIONS

The University of Texas MD Anderson Cancer Center

Dr. Ronald A. DePinho (IOM) *introduced by*
Dr. Francisco G. Cigarroa (IOM), Chancellor,
The University of Texas System

The Methodist Hospital Research Institute

Dr. Neal G. Copeland (NAS) and
Dr. Nancy A. Jenkins (NAS) *introduced by*
Dr. Mauro Ferrari, President and CEO,
The Methodist Hospital Research Institute

Rice University

Dr. José N. Onuchic (NAS),
Dr. Peter G. Wolynes (NAS) and
Dr. Edwin L. Thomas (NAE) *introduced by*
Dr. Daniel D. Carson, Dean, Wiess School of
Natural Sciences, Rice University

Baylor College of Medicine

Dr. Peter J. Hotez (IOM) and
Dr. Richard A. Gibbs (IOM) *introduced by*
Dr. Paul Klotman, President and CEO,
Baylor College of Medicine

The University of Texas at Austin

Dr. Keith P. Johnston (NAE),
Dr. Robert M. Metcalfe (NAE) and
Dr. Peter J. Rossky (NAS) *introduced by*
William C. Powers, Jr., President,
The University of Texas at Austin

The University of Texas Southwestern Medical Center

Dr. Bruce A. Beutler (NOBEL LAUREATE, IOM, NAS)
introduced by
Dr. Daniel K. Podolsky (IOM), President,
The University of Texas Southwestern Medical Center

Texas A&M University

Dr. Panganamala Ramana Kumar (NAE)
introduced by
Dr. Stephen A. Holditch (NAE), Director,
Texas A&M Energy Engineering Institute



DONALD LIU, PH.D.

NATIONAL ACADEMY OF ENGINEERING: 2011

Retired Executive Vice President and Chief Technology Officer | American Bureau of Shipping

Dr. Donald Liu was elected to the NAE for creating finite-element techniques for ship structural designs and contributing principles for safer ships. Beginning in 1967, he worked with aerospace engineers at the University of Arizona to develop the first application of the finite-element method applied to ship structures. The associated computer program, dubbed DAISY (Displacement Automated Integrated System), was used to analyze the first ship by evaluating the entire structure using the finite-element method. At the American Bureau of Shipping (ABS), Liu and the ABS technology team developed the Dynamic Loading Approach to assess the structural strength of ships and then extended that pioneering approach with the development of the innovative SafeHull system, a dynamic-based ship design evaluation system founded on engineering first principles.



JAMES C. STEVENS, PH.D., D. LITT.

NATIONAL ACADEMY OF ENGINEERING: 2011

Research Fellow, Core Research and Development | The Dow Chemical Company

Dr. James Stevens was elected to the NAE for his contributions to the discovery and commercialization of polyolefin products. His primary field of research is in the area of new catalysts, particularly in the area of polyethylene, polypropylene, ethylene/styrene copolymers and the combinatorial discovery of organometallic single-site catalysts. He is the inventor of record on 90 issued U.S. patents and has been involved with the discovery and commercial implementation of Dow's INSITE™ Technology and Constrained-Geometry Catalysts, used in the production of over 2 billion pounds of polyolefins per year. In 1994, he was a co-recipient of the United States National Inventor of the Year Award. In 2002, The Dow Chemical Company was awarded the National Medal of Technology, based in part on the work of Dr. Stevens in the area of olefin polymerization catalysis.



JEFFREY S. BECK, PH.D.

NATIONAL ACADEMY OF ENGINEERING: 2011

Global Marketing Manager Polyethylene, Polyolefins Global Business Unit | ExxonMobil Chemical Company

Dr. Jeffrey Beck was elected to the NAE for the discovery and commercialization of selective, environmentally beneficial catalytic routes to major petrochemicals and for his leadership in industrial engineering. In 1989, he joined Mobil Technology Company where he created the commercial PxMax™ and XyMax™ catalyst platforms. In 2001, he was appointed Director of Catalyst Technology at ExxonMobil Research and Engineering Company and was responsible for establishing ExxonMobil's alliance in High-Throughput Experimentation (HTE) with Symyx™. He was later appointed Manager of Corporate Strategic Research and led a team that negotiated ExxonMobil's algae biofuels collaboration with Synthetic Genomics. In 2010, he was appointed Global Polyethylene Marketing Manager at ExxonMobil Chemical Company. Dr. Beck has received numerous awards including the Donald W. Breck Award (1994), the Thomas Alva Edison Patent Award (2003 and 2008) and the Eugene J. Houdry Award (2009). In 2007, he was named one of the American Chemical Society's Heroes of Chemistry. He holds 63 U.S. patents and has published 46 scientific articles.



JOSEPH C. SALAMONE, PH.D.

NATIONAL ACADEMY OF ENGINEERING: 2011

Chief Scientific Officer | Rochal Industries LLP

Dr. Joseph Salamone was elected to the NAE for his contributions to the advancement of ophthalmological devices and wound healing therapies, and for distinguished academic and professional service. He co-founded Polymer Technology Corporation, a company which commercialized the world's first high oxygen-permeable rigid contact lenses. In 1986, he co-founded Rochal Industries LLP, a San Antonio biomedical research company that has invented and licensed a number of revolutionary and useful wound and burn care products. Throughout his career, Dr. Salamone has developed more than 40 products and product lines in eye and wound care. That intellectual property has led to more than 200 U.S. patents (pending and issued) for products that have generated more than \$1 billion in commercial sales. In addition to his position at Rochal Industries LLP, Dr. Salamone is an adjunct professor of biomedical engineering at The University of Texas at San Antonio.



RONALD A. DEPINHO, M.D.

INSTITUTE OF MEDICINE: 2004

President; Professor, Department of Cancer Biology | The University of Texas MD Anderson Cancer Center

Dr. Ronald DePinho became president of The University of Texas MD Anderson Cancer Center in September of 2011, relocating from the Dana-Farber Cancer Institute where he was director of the Belfer Institute for Applied Cancer Science. He is internationally recognized for basic and translational research in cancer, aging and age-associated degenerative disorders. Dr. DePinho's laboratory has produced an array of discoveries leading to better methods of early cancer detection, improved cancer patient care and new cancer drug development. The range of his research includes cancer drug and biomarker development, cancer gene discovery, stem cell biology and development of genetically engineered mouse models to study cancer in humans. In 2010, Dr. DePinho was named a Fellow of the American Academy of Arts and Sciences.



NEAL G. COPELAND, PH.D.

NATIONAL ACADEMY OF SCIENCES: 2009

Director, The Methodist Cancer Biology Program; Dean of Cancer Biology, The Methodist Academy; Senior Member | The Methodist Hospital Research Institute



NANCY A. JENKINS, PH.D.

NATIONAL ACADEMY OF SCIENCES: 2009

Co-Director, The Methodist Cancer Biology Program; Dean of Genetics, The Methodist Academy; Senior Member | The Methodist Hospital Research Institute

Husband and wife research team Dr. Neal Copeland and Dr. Nancy Jenkins joined The Methodist Hospital Research Institute in October of 2011, relocating from the Institute of Molecular and Cell Biology (IMCB) at Singapore's Agency for Science, Technology and Research (A*STAR). Dr. Copeland was executive director of IMCB, and Dr. Jenkins served as deputy director of IMCB's Genetics and Genomics Division. Drs. Copeland and Jenkins have modeled many different types of human disease in mice, although the focus of their current research is exclusively cancer. In their research to induce different types of human cancer

in mice, their IMCB group recently discovered ways of manipulating the genetic structure of “Sleeping Beauty,” a mutagenic transposon, a sequence of DNA that can move around to different positions within the genome of a single cell. In moving around, a transposon can induce mutations in cancer-causing genes. The transposon then serves as a molecular tag to identify the cancer-causing genes, which then become targets for developing new therapies for treating cancer.



JOSÉ N. ONUCHIC, PH.D.

NATIONAL ACADEMY OF SCIENCES: 2006

Co-Director, Center for Theoretical Biological Physics; Harry C. & Olga K. Wiess Chair of Physics; Professor of Physics and Astronomy, Chemistry, and Biochemistry and Cell Biology | Rice University

Dr. José Onuchic joined the faculty at Rice University in July of 2011. He relocated from the University of California, San Diego (UCSD) along with the Center for Theoretical Biological Physics Co-Directors Drs. Herbert Levine (arriving in July 2012) and Peter Wolynes. Dr. Onuchic’s research looks at theoretical and computational methods for molecular biophysics, chemical reactions in condensed matter and gene networks. His research group introduced the concept of protein-folding funnels to show the types of amino acid sequences that can fold into a unique protein structure. Dr. Onuchic and his collaborators also created the concept of tunneling pathways and the methodology for reducing proteins into a combination of relevant tubes of pathways that provides a new way of designing electron transfer proteins. Currently he is broadening his interests to stochastic effects in genetic networks particularly in bacteria. Connections between bacteria decision-making in a colony with cancer are going to be explored. Dr. Onuchic is a Fellow of the American Physical Society, American Academy of Arts and Sciences (2009) and the Biophysical Society (2012).



PETER G. WOLYNES, PH.D.

NATIONAL ACADEMY OF SCIENCES: 1991

D.R. Bullard-Welch Foundation Professor of Science, Department of Chemistry | Rice University

Dr. Peter Wolynes joined the faculty at Rice University in July of 2011. He relocated from the University of California, San Diego (UCSD) along with the Center for Theoretical Biological Physics Co-Directors Drs. Herbert Levine (arriving in July 2012) and José Onuchic. At UCSD, Dr. Wolynes held the Francis Crick Endowed Chair in the Physical Sciences and was distinguished professor of chemistry and biochemistry and professor of physics. His primary research area is in theoretical chemistry, and he is most well-known for his work on the energy landscape theory of protein-folding, which shows how the forces within proteins guide them to their functioning structures. This theory has made possible the development of computer programs to predict the structures of proteins from their genetic sequences. In addition, Dr. Wolynes continues his work on many-body chemical physics, the glass transition and stochastic aspects of cell biology. In 2009, he was named a Fellow of the American Academy of Arts and Sciences.



EDWIN L. THOMAS, PH.D.

NATIONAL ACADEMY OF ENGINEERING: 2009

William and Stephanie Sick Dean of Engineering; Professor, Mechanical Engineering and Materials Science and Chemical and Biomolecular Engineering | Rice University

Dr. Edwin “Ned” Thomas joined Rice University in July of 2011, relocating from the Massachusetts Institute of Technology (MIT) where he served as head of the Department of Materials Science and Engineering. In 2000, he and his colleagues at MIT co-founded OmniGuide Inc., a Cambridge, Massachusetts, company that pioneered flexible carbon dioxide laser fibers for precision surgery. In 2002, he founded MIT’s Institute for Soldier Nanotechnologies (ISN) where research has resulted in products that benefit service men and women. Dr. Thomas’ research is currently focused on using 2D and 3D lithography and direct-write and self-assembly techniques for creating metamaterials with unprecedented mechanical and thermal properties. Dr. Thomas is an Inaugural Fellow of the Materials Society (2008), a Fellow of the American Physical Society (1986) and a Fellow of the American Academy of Arts and Sciences (2009).



PETER J. HOTEZ, M.D., PH.D.

INSTITUTE OF MEDICINE: 2008

President and Director, Sabin Vaccine Institute and Texas Children's Hospital Center for Vaccine Development; Professor, Pediatrics and Molecular Virology & Microbiology; Texas Children's Hospital Endowed Chair for Tropical Pediatrics; Dean, National School of Tropical Medicine | Baylor College of Medicine

Dr. Peter Hotez joined Baylor College of Medicine in August of 2011, relocating from George Washington University where he was the distinguished research professor, the Walter G. Ross Professor and chair of the Department of Microbiology, Immunology and Tropical Medicine. He is an internationally-recognized clinician and laboratory investigator in neglected tropical diseases and vaccine development. Dr. Hotez leads the only product development partnership for developing new vaccines for hookworm infection, schistosomiasis and Chagas disease, diseases affecting hundreds of millions of children and adults worldwide. Additionally, he leads a global policy and advocacy initiative for the control and elimination of neglected tropical diseases as well as the promotion of global vaccine diplomacy. Dr. Hotez is also leading efforts on an emerging problem of neglected tropical diseases in the U.S., especially in Texas and on the Gulf Coast.



RICHARD A. GIBBS, PH.D.

INSTITUTE OF MEDICINE: 2011

Director, Human Genome Sequencing Center; Wofford Cain Professor of Molecular and Human Genetics | Baylor College of Medicine

Dr. Richard Gibbs is a national and international leader in genome sequencing and is also recognized for his leadership in understanding the ethical and legal implications of sequencing individual genomes. In 1996, he established the Human Genome Sequencing Center (HGSC) that subsequently was chosen to be one of five worldwide sites to complete the final phase of the Human Genome Project. Current research within the HGSC is focused on the genomics of cancer, heart disease and autism. The HGSC is also part of the Human Microbiome Project and has an active bioinformatics program with research projects involving biologists and computer scientists. Problems under study focus on developing tools for generating, manipulating and analyzing genome data.



KEITH P. JOHNSTON, PH.D.

NATIONAL ACADEMY OF ENGINEERING: 2011
M.C. (Bud) and Mary Beth Baird Endowed Chair; Professor, Chemical Engineering | The University of Texas at Austin

Dr. Keith Johnston was elected to the NAE for advances in the science and technology of particles and colloids used in drug delivery, biomedical imaging/therapy, microelectronics and energy applications. His research focuses on utilizing fundamental concepts in colloid and interface science and materials chemistry to design, synthesize and characterize nanocomposite materials for biomedical, pharmaceutical and energy applications. Other areas of research include: imaging and therapeutics for atherosclerosis and cancer; nanoparticle drug delivery for proteins and poorly water soluble drugs; nanocomposites for catalysis and energy storage, including supercapacitors, batteries and fuel cells; and subsurface science and engineering for enhanced oil recovery, imaging and CO₂ sequestration.



ROBERT M. METCALFE, PH.D.

NATIONAL ACADEMY OF ENGINEERING: 1997
Professor of Innovation and Murchison Fellow of Free Enterprise |
The University of Texas at Austin
Venture Partner | Polaris Venture Partners

Dr. Robert Metcalfe joined The University of Texas at Austin in January of 2011, relocating from Polaris Venture Partners based in Waltham, Massachusetts, where he remains a Venture Partner. He is well known in the world of technology, having invented today's local-area networking standard, Ethernet, while working at Xerox Palo Alto Research Center in the 1970s. In 1979, he founded 3Com Corporation (which IPOed in 1984 and was acquired by Hewlett-Packard in 2010), a company that sold early commercial versions of standard Ethernet and other Internet networking products. His research areas have included computer operating systems and networks, with his current research interest being entrepreneurial, technological innovation at scale. Among his many achievements, Dr. Metcalfe was named a Fellow of the American Academy of Arts and Sciences (1995), received the National Medal of Technology (2005) and was inducted into the National Inventors Hall of Fame (2007).



PETER J. ROSSKY, PH.D.

NATIONAL ACADEMY OF SCIENCES: 2011

Director, Center for Computational Molecular Sciences, Institute for Computational Engineering and Sciences; Marvin K. Collie-Welch Regents Chair in Chemistry, Department of Chemistry and Biochemistry; Professor, Department of Chemical Engineering | The University of Texas at Austin

Dr. Peter Rossky's research seeks to discover the fundamental molecular-level origins of chemical behavior in condensed phases, such as water's influence on biological assembly, the mechanism of energy migration in polymers and the factors controlling reaction rates in solution. His research group emphasizes realistic atomistic descriptions of complex molecular systems and focuses on the development and application of theoretical and computational approaches to structural and dynamic chemical processes. Current topics of emphasis fall in several areas of chemical physics, biophysical chemistry and materials science. Chemistry problems being addressed include the effects of the molecular environment and of intramolecular motions on molecular electronic dynamics, and aqueous solvation effects on molecular conformation and intersolute interactions, particularly in the context of biomacromolecules. He is a Fellow of the American Physical Society, the American Association for the Advancement of Science and the American Academy of Arts & Sciences (2004).



BRUCE A. BEUTLER, M.D.

NOBEL LAUREATE: 2011, INSTITUTE OF MEDICINE: 2008,

NATIONAL ACADEMY OF SCIENCES: 2008

Director, Center for the Genetics of Host Defense | The University of Texas Southwestern Medical Center

Dr. Bruce Beutler re-joined The University of Texas Southwestern Medical Center (UT Southwestern) in September of 2011, relocating from Scripps Research Institute where he was professor and chairman of the Department of Genetics. He first joined UT Southwestern as an internal medicine intern and neurology resident (1981–1983). He then spent three years at Rockefeller University (1983–1986), where he isolated tumor necrosis factor (TNF) and established its function as a mediator of inflammation. Returning to UT Southwestern in 1986 as a faculty member and Howard Hughes Medical Institute investigator, Dr. Beutler developed TNF inhibitors that were eventually used in the treatment of rheumatoid arthritis and other diseases. Moreover, by positionally cloning the mammalian LPS receptor, he identified the Toll-like receptors (TLRs) as sensors that alert the host immune system when infection is present. This discovery,

made in 1998, opened many new doors in immunology and earned him many accolades, including the Nobel Prize in Physiology or Medicine in 2011.

At the Scripps Research Institute between 2000 and 2011, Dr. Beutler developed one of the most robust gene discovery programs in the world, utilizing germline mutagenesis and phenotypic screening to dissect both innate and adaptive immunity, and other biological processes as well. Several “firsts” emerged from this program, including the development of numerous mouse disease models that predicted human diseases. A similar approach, empowered by new technologies, will be pursued at UT Southwestern, where Dr. Beutler and his colleagues will study many aspects of host defense, both as it is activated during infection and during neoplastic disease.



PANGANAMALA RAMANA KUMAR, D.Sc.

NATIONAL ACADEMY OF ENGINEERING: 2007

College of Engineering Chair in Computer Engineering; Professor,
Department of Electrical and Computer Engineering | Texas A&M University

Dr. P.R. Kumar joined Texas A&M University in August of 2011, relocating from the University of Illinois at Urbana-Champaign where he was Franklin Woeltge Professor in the Department of Electrical and Computer Engineering and research professor in the Coordinated Science Lab. He has made groundbreaking contributions that have helped to shape industrial practice and research in both semiconductor manufacturing and wireless networking. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). He has received the IEEE Control Systems Award, the Donald P. Eckman Award of the American Automatic Control Council and the Fred W. Ellersick Prize of the IEEE Communications Society. He is an Associate Fellow of The Academy of Sciences for the Developing World and is a Guest Chair Professor at Tsinghua University in Beijing, China. He was awarded an honorary doctorate by the Swiss Federal Institute of Technology (ETH) in Zurich and the Daniel C. Drucker Eminent Faculty Award by the College of Engineering at the University of Illinois.

TAMEST RECOGNIZES THE FOLLOWING MEMBERS WHO WERE ELECTED TO A SECOND NATIONAL ACADEMY IN 2011

Arthur L. Beaudet, M.D.

IOM: 1995, NAS: 2011

Professor and Chairman, Department of Molecular and Human Genetics, Baylor College of Medicine

George Georgiou, Ph.D.

IOM: 2011, NAE: 2005

Cockrell Family Regent's Chair in Engineering #9, Department of Chemical Engineering, The University of Texas at Austin

Luis F. Parada, Ph.D.

IOM: 2007, NAS: 2011

Diane & Richard C. Strauss Distinguished Chair in Developmental Biology, The University of Texas Southwestern Medical Center

OTHER TAMEST MEMBERS ELECTED TO TWO NATIONAL ACADEMIES

Michael S. Brown, M.D.

NOBEL LAUREATE: 1985, IOM: 1987, NAS: 1980

The University of Texas Southwestern Medical Center

C. Thomas Caskey, M.D., F.A.C.P.

IOM: 1989, NAS: 1993

Baylor College of Medicine

Robert E. Dickinson, Ph.D.

NAE: 2002, NAS: 1988

The University of Texas at Austin

Ronald W. Estabrook, Ph.D.

IOM: 1975, NAS: 1979

The University of Texas Southwestern Medical Center

Mary K. Estes, Ph.D.

IOM: 2005, NAS: 2007

Baylor College of Medicine

Alfred G. Gilman, M.D., Ph.D.

NOBEL LAUREATE: 1994, IOM: 1989, NAS: 1985

Cancer Prevention and Research Institute of Texas

Joseph L. Goldstein, M.D.

NOBEL LAUREATE: 1998, IOM: 1987, NAS: 1980

The University of Texas Southwestern Medical Center

Helen H. Hobbs, M.D.

IOM: 2004, NAS: 2007

The University of Texas Southwestern Medical Center

Thomas J.R. Hughes, Ph.D.

NAE: 1995, NAS: 2009

The University of Texas at Austin

Steven L. McKnight, Ph.D.

IOM: 2005, NAS: 1992

The University of Texas Southwestern Medical Center

Eric N. Olson, Ph.D.

IOM: 2001, NAS: 2000

The University of Texas Southwestern Medical Center

Bert W. O'Malley, M.D.

IOM: 1993, NAS: 1992

Baylor College of Medicine

Nicholas A. Peppas, Sc.D.

IOM: 2008, NAE: 2006

The University of Texas at Austin

Darwin J. Prockop, M.D., Ph.D.

IOM: 1992, NAS: 1991

Texas A&M Health Science Center

Ellen S. Vitetta, Ph.D., M.D.

IOM: 2006, NAS: 1994

The University of Texas Southwestern Medical Center

Jean D. Wilson, M.D.

IOM: 1994, NAS: 1983

The University of Texas Southwestern Medical Center

Huda Y. Zoghbi, M.D.

IOM: 2000, NAS: 2004

Baylor College of Medicine

NOBEL LAUREATES OF TEXAS

Dr. Bruce A. Beutler
Nobel Prize in Physiology or Medicine, 2011
The University of Texas Southwestern Medical Center

Dr. Michael S. Brown
Nobel Prize in Physiology or Medicine, 1985
The University of Texas Southwestern Medical Center

Dr. Robert F. Curl
Nobel Prize in Chemistry, 1996
Rice University

Dr. Johann Deisenhofer
Nobel Prize in Chemistry, 1988
The University of Texas Southwestern Medical Center

Dr. Alfred G. Gilman
Nobel Prize in Physiology or Medicine, 1994
Cancer Prevention and Research Institute of Texas

Dr. Joseph L. Goldstein
Nobel Prize in Physiology or Medicine, 1985
The University of Texas Southwestern Medical Center

Dr. Dudley R. Herschbach
Nobel Prize in Chemistry, 1986
Texas A&M University

Dr. Russell A. Hulse
Nobel Prize in Physics, 1993
The University of Texas at Dallas

Dr. David M. Lee
Nobel Prize in Physics, 1996
Texas A&M University

Dr. Steven Weinberg
Nobel Prize in Physics, 1979
The University of Texas at Austin

In Memoriam

Dr. Norman E. Borlaug
Nobel Peace Prize, 1970

Mr. Jack St. Clair Kilby
Nobel Prize in Physics, 2000

Dr. Alan G. MacDiarmid
Nobel Prize in Chemistry, 2000

Dr. Richard E. Smalley
Nobel Prize in Chemistry, 1996

IN MEMORIAM

TAMEST remembers the following members who passed away in 2011 for their contributions to the advancement of medicine, engineering and science.

Dr. Neal R. Amundson
NAE: 1970, NAS: 1992
University of Houston

Dr. Thomas D. Barrow
NAE: 1974
Thomson Barrow Corporation

Dr. John D. Baxter
IOM: 2003, NAS: 2003
The Methodist Hospital Research Institute

Dr. Lewis R. Binford
NAS: 2001
Southern Methodist University

Dr. Donald J. Blickwede
NAE: 1976
Bethlehem Steel Corporation

Mr. Harry E. Bovay, Jr.
NAE: 1978
Mid-South Telecommunications Company

Dr. Robert C. Earlougher, Jr.
NAE: 1996
Marathon Oil Company

Mr. Robert H. Widmer
NAE: 1977
General Dynamics Corporation

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TAMEST gratefully acknowledges the Founders of the Endowment and the Legacy Circle for their extraordinary commitment to securing the future of Texas as a national leader in science and technology.

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