



Tulane University

School of Science & Engineering

*2010 Alumni
Awards Celebration*

Thursday, April 8, 2010

Tulane University

School of Science and Engineering 2010 Alumni Awards Celebration

Lavin-Bernick Center for University Life
1834 Club

Welcome

Nicholas J. Altiero
Dean, School of Science and Engineering

Remarks

Yvette Jones
Executive Vice-President for University Relations & Development

Remarks

Nicholas J. Altiero
Dean, School of Science and Engineering

Presentation of Alumni Awards

Shepard Perrin, III
Chemical Engineering '83

Outstanding Alumnus Award

Monty Krieger, Chemistry '71

Outstanding Service Alumnus Award

Paul Flower, Civil Engineering '75

Outstanding Young Alumnus Award

Mohit Singh, Chemical Engineering '04



Monty Krieger

School of Science and Engineering
Outstanding Alumnus



Professor Monty Krieger has life-long connections to Tulane - his mother (Mildred) and father (I. Jay) were graduates (Newcomb, Tulane Law). At Tulane (B.S. in Chemistry, summa cum laude with distinction, 1971) he did research with Professor Cusachs (quantum mechanics) and Professor Fritchie (crystallography) and received the Merck Award, the Perry Medal, and was elected to $\Phi\text{H}\Sigma$ and ΦBK . He received Danforth and Woodrow Wilson Fellowships for graduate studies in Chemistry at Caltech with Professor R. Stroud (Ph.D. '76) and Caltech's McCoy Award for outstanding contributions to Chemistry. After postdoctoral training at Southwestern Medical Center with Professors M. Brown & J. Goldstein ('77-'81) he joined the faculty of Massachusetts Institute of Technology's Biology Department where he is the Whitehead Professor and a Senior Associate Member of the Broad Institute. He has won awards for undergraduate & graduate teaching and for research, including election to the U.S. National Academy of Sciences (2009). He has been a visiting professor at the University of Crete and the Weizmann Institute and is an author of the widely used textbook *Molecular Cell Biology*. In 2009 he joined Tulane's School of Science and Engineering Board of Advisors. He and wife Nancy have two sons, Jonathan and Joshua.



Krieger's research at the Massachusetts Institute of Technology explores how cells 'work', how the body protects itself from foreign pathogens, and cholesterol metabolism and its role in clogging of the arteries (atherosclerosis), a major cause of heart attacks and strokes. Krieger studies receptors, proteins residing on the surfaces of cells that 'recognize' or bind to key molecules in the surrounding fluid. His analysis of LDL ('bad' cholesterol) receptors identified genes that influence the inner workings of cells, mutations in which cause human disease. He identified and characterized several 'scavenger' receptors, proposing and helping establish that such receptors can play a key role in immune defense. He also discovered and characterized the first HDL ('good' cholesterol) receptor and its novel mechanism of delivering cholesterol to cells. Krieger's group showed this HDL receptor influences gastrointestinal, endocrine, reproductive and cardiovascular physiology, and protects against female infertility, certain blood disorders, and atherosclerosis. His work generated new methods for studying coronary heart disease and suggests that the HDL receptor is a potential target for pharmacologic prevention and treatment of cardiovascular disease.



Paul Flower

School of Science and Engineering
Outstanding Service Alumnus

Paul has worked in the construction and engineering fields since 1967. Prior to joining Woodward Design + Build, in 1970, Paul worked for Robert E. McKee General Contractors, Inc. in Atlanta, GA.

Paul received his Bachelor of Civil Engineering from Georgia Institute of Technology in 1968. He went on to attend the Tulane University, receiving a Master of Engineering degree in 1975.

He holds a professional engineering license in Louisiana. He holds construction licenses in Louisiana, Arkansas, Mississippi, Florida, and Alabama.

Paul is a member of ASCE, ACI, AISC, Vistage, and the Urban Land Institute. He is past president of the Associated Builders and Contractors and past board member of LABI and Trinity Episcopal School. He has also been active in United Way as Group Chairman for construction and industry, and active in other educational groups and charities, such as the Juvenile Diabetes Research Foundation (JDRF). In 2004, Paul served as Corporate Recruitment Chairperson for JDRF's annual Walk for a Cure. Presently, Paul serves on the Dean's Advisory Board for Tulane University's School of Science and Engineering and is a member of the Business Council of New Orleans and the River Region. Prior to his present role, Paul served in numerous positions as a Structural Designer, Project Manager, Estimator and Project Executive during his years with our firm. These projects encompass medical, commercial, industrial, historic restoration and multi-unit residential facilities. In 2004, Paul formed Woodward Interests, a real-estate development company. Woodward Interests has been responsible for the development of several large commercial projects in New Orleans.



Mohit Singh

School of Science and Engineering
Outstanding Young Alumnus



Dr. Mohit Singh is the founder, and the Director of Technology at Seeo, a Berkeley start up developing a new class of high-energy rechargeable lithium batteries that offer unprecedented safety and lifetime. With support from Silicon Valley's top venture firms (Khosla Ventures, Google.org) and the US Department of Energy, the team at Seeo is moving full speed toward revolutionizing electricity storage and delivery. Dr. Singh developed the technology through collaboration between UC Berkeley, and Lawrence Berkeley National Lab's prestigious BATT (Batteries for Advanced Transportation Technologies) program. During his stint at LBNL as a post doctoral fellow, Dr. Singh discovered a novel nano-structured polymeric electrolyte that was extremely safe, and stable against the battery electrodes. His work has been recognized worldwide through several awards including RD 100, and Going Green 100. The novelty of Seeo's approach has attracted the attention of several well known inventors. Pierre Lamond (founder National Semiconductor) and Atiq Raza (founder NextGen & RMI, former AMD President and COO) serve on Seeo's board. Dr. Steven Chu (Noble Laureate and the United States Secretary of Energy) and Dr. Paul Alivisatos (Director Lawrence Berkeley National Lab) have served on Seeo's scientific advisory board.



Prior to founding Seeo, Dr. Singh worked in the area of bio-plastics at Arkema Inc, a world leader in polymeric materials, and specialty chemicals. Dr. Singh received his Bachelors from Indian Institute of Technology, Bombay, India, in Chemical Engineering, and continued on to get his PhD in Chemical and Biomolecular Engineering from Tulane University in New Orleans, LA, examining self assembly of soft nano-materials, and their applications in template syntheses. Dr. Singh has several international publications, and patents, and is a leading authority in the field of energy storage.

