



**ALUMNI AWARDS  
INDUCTION CEREMONY**

**APRIL 6, 2019**



# 2019 INDUCTEES

## ENGINEERING HALL OF FAME

C. PERRY BANKSTON	JERRY S. JOHNSON
ROBERT SHELLEY BLOUNT	JOSEPH C. MELLO
WILLIAM R. COLLINS, JR.	G. BEN TURNIPSEED
RAYMOND J. FRENCH	JOHN H. WOODY, JR.

## ACADEMY OF DISTINGUISHED ENGINEERING ALUMNI

DAVID P. CARLTON	SAMUEL S. LEE
R. THOMAS DYAL	CYNTHIA (CINDY) LODGE
ÓSCAR GALLEGO	DIERK REUTER
MARY A. GORDON	YANCY W. RIDDLE
DENNIS W. KELLY	FRANK E. WILLIAMS, III

## COUNCIL OF OUTSTANDING YOUNG ENGINEERING ALUMNI

ALLEN CHANG	LUCY PETTITT-SCHIEBER
MALLORY FREEMAN	STACIE SIRE
KEVIN C. MASSEY	

## DEAN'S IMPACT AWARD

OASIS WATER TEST, INC., ARJUN BIR, FOUNDER

## DEAN'S APPRECIATION AWARD

CHRIS KLAUS

# *the* CEREMONY

## WELCOME

STEVEN W. McLAUGHLIN  
*Dean & Southern Company Chair*

## CO-HOST

ADMIRAL JAMES A. “SANDY” WINNEFELD, JR. (AE '78)  
*Co-Founder, SAFE Project US*

## STUDENT SPEAKER

FATIMA SHERIFF (ME)

## INDUCTION

COUNCIL *of* OUTSTANDING YOUNG ENGINEERING ALUMNI  
ACADEMY *of* DISTINGUISHED ENGINEERING ALUMNI  
ENGINEERING HALL *of* FAME  
DEAN’S IMPACT AWARD  
DEAN’S APPRECIATION AWARD

## ACKNOWLEDGMENTS & CLOSING REMARKS

STEVEN W. McLAUGHLIN

# *the* MENU

## SALAD

### ***Mixed Baby Green Salad***

*goat cheese, spiced pecans, pickled shallots, seasonal berries,  
tarragon vinaigrette*

## PRE-SELECTED ENTRÉE

### ***Grilled Beef Filet***

*whipped potatoes, tobacco onions, jumbo asparagus, red wine demi*

### ***Seasonal Grilled Italian Vegetable & Portobello Mushroom Stack***

*fresh mozzarella, fresh tomato basil ragu, basil oil*

## DESSERT

***Biscoff Cheesecake, Chocolate Crumble, Dulce De Leche***

## WINE

***Canyon Road Cabernet  
Wither Hills Sauvignon Blanc***

# *from* THE DEAN

CONGRATULATIONS AND WELCOME to the 2019 College of Engineering Alumni Awards Induction Ceremony. Thank you for being a part of his celebration. Your professional success reflects well on your families, and on all of us here at Georgia Tech.

The College of Engineering has a long and proud history of producing outstanding graduates. Those being honored tonight, as well as those who have been honored at past ceremonies, are a great source of pride. Every day, you serve as living examples of the strong work ethic, problem solving ability, global impact, and leadership skills that are so much a part of Georgia Tech's culture.

I know of no other career that promotes the spirit of innovation like engineering. Few professions turn so many ideas into realities, and few have such a direct impact on people's everyday lives. The reputation of Georgia Tech and its graduates is enhanced by your professional accomplishments, and you help our college maintain excellence in engineering leadership.

Recognizing our most talented and successful alumni reaffirms that you, like many of those before you and thousands to follow, give life and reality to the legacy and contributions of the College of Engineering. The accomplishments that earned you this honor are impressive. While at Tech our job was to help prepare you to realize your fullest potential. Your achievements that earned you this honor are impressive. You are some of our most accomplished alumni and represent what we do well at Georgia Tech.

In the College, we inspire dreams, improve minds, ignite curiosity, and define the promise of tomorrow. For all that you have done and will continue to do, we commend, you. Tonight, we celebrate engineering, excellence, and you, our honorees. Congratulations on truly exemplifying a "Helluva Engineer."



**STEVEN W.  
McLAUGHLIN**

**Dean & Southern Company  
Chair, College of Engineering,  
Georgia Institute of  
Technology**

# *from* THE PRESIDENT



**G.P. "BUD"  
PETERSON**

**President, Georgia Institute  
of Technology**

WELCOME TO ONE OF THE COLLEGE OF ENGINEERING'S most important celebrations. Since the CoE Alumni Awards were created in 1994 under then-Dean John A. White's leadership, we have used this occasion to honor the many accomplishments of some of the Institute's most distinguished engineering alumni. Approximately 10,500 CoE alumni currently hold prominent business roles as CEOs, executives, VPs, CIOs, CTOs, presidents, or board chairs. Sixty-one percent of all Georgia Tech alumni are CoE graduates, a measure of how foundational the College is to the Institute's success.

I extend my most sincere congratulations to those being honored here tonight. Our awardees serve not only as inspiration for our younger alumni and current students, but also as symbols of Georgia Tech's enduring reputation for excellence, innovation, and the way we prepare our graduates for leadership positions.

High standards, hard work, perseverance, and entrepreneurial drive are all hallmarks of Georgia Tech graduates. While tonight's honorees are at various stages in their careers, they share these characteristics. Each has had a significant impact in his or her respective fields, be it academia, government, or industry, and tonight I am exceedingly proud to see them be honored.

As living examples of the Georgia Tech ethos, tonight's honorees have something else in common: an unmatched technological education, along with the ability to think critically and address complex challenges, and the determination to improve the human condition and positively impact our world.

On behalf of the entire Georgia Tech community, I want to thank each of our award recipients for all you have done and continue to do for your own organization, the Institute, and our nation through your service and commitment to excellence. I hope you enjoy this exciting evening as we all celebrate the outstanding achievements of the College of Engineering Alumni Awards recipients.

# CO-HOST

**ADMIRAL WINNEFELD** graduated from Georgia Tech with a degree in aerospace engineering and served for 37 years in the United States Navy. He flew the F-14 Tomcat, instructed at the Navy Fighter Weapons School, also known as Topgun, and served as senior aide-de-camp to General Colin L. Powell. He subsequently commanded a fighter squadron, the amphibious ship USS CLEVELAND, the aircraft carrier USS ENTERPRISE, and the THEODORE ROOSEVELT Carrier Strike Group. As a flag officer, he commanded NATO Joint Command Lisbon, Striking and Support Forces NATO, the United States SIXTH Fleet, United States NORTHERN Command, and the North American Aerospace Defense Command, also known as NORAD. He retired in 2015 after serving four years as the ninth Vice Chairman of the Joint Chiefs of Staff and the United States' number two ranking military officer.



**JAMES A. "SANDY"  
WINNEFELD, JR.**

**Retired Admiral, U.S. Navy**

Admiral Winnefeld is a frequently published author and a director or advisory board member for several companies, including Enterprise Holdings, operating in a broad spectrum of business sectors. He currently serves as Distinguished Professor at the Sam Nunn School of International Affairs at Georgia Tech, where he is also a member of the Engineering Hall of Fame. He is on the Board of Visitors of the United States Naval Academy, and a senior non-resident fellow at the Belfer Center for Science and International Affairs, John F. Kennedy School of Government at Harvard University.

Admiral Winnefeld and his wife, Mary, are Co-Chairs of S.A.F.E. Project US (Stop the Addiction Fatality Epidemic), a national nonprofit committed to contributing in a tangible way to overcoming the epidemic of opioid addiction in the United States.



# COUNCIL *of* OUTSTANDING YOUNG ENGINEERING ALUMNI

The Council of Outstanding Young Engineering Alumni Award recognizes alumni who have distinguished themselves through professional practice and/or service to the Institute, the engineering profession, or society at large. They are on the “fast track” and have made rapid advancement within their organizations, and they have been recognized for early achievements by others within their profession, field or organization.

Allen graduated from Georgia Tech with a bachelor's degree in biomedical engineering in 2008 and went on to receive his master's degree from Boston University in 2012. He co-founded Vertera Spine, which was acquired by NuVasive, Inc. in September 2017. Through Vertera Spine, he launched two lines of product, and developed and scaled up patented manufacturing processes for the revolutionary porous PEEK technology platform. Currently Allen leads the development efforts to proliferate the remarkable surface technology on NuVasive's flagship XLIF lumbar interbody fusion device with the goal to continue improving patient outcomes.



**ALLEN CHANG**

**B.S.B.M.E. '08**

**Co-founder, Vertera Spine  
NuVasive, Inc.**



**MALLORY  
FREEMAN**

**Ph.D.I.E. '14**

**Lead Data Scientist**

**UPS Advanced  
Technology Group**

Mallory received her Ph.D. in industrial engineering from Georgia Tech in 2014. She earned her master's in operations research from MIT, and her bachelor's in industrial and systems engineering from Virginia Tech. Mallory is the Lead Data Scientist for the UPS Advanced Technology Group, helping develop UPS's smart logistics network. Prior to this role, she worked for UPS as a Senior Operations Research Analyst and as an Advanced Analytics Manager. While at Georgia Tech, she helped lead supply chain optimization projects for the UN World Food Programme. Mallory advocates for companies to leverage their data, their data scientists, and technology assets to make a difference in the world. Her TED talk on data philanthropy has over a million views, and she volunteers with the UPS Foundation's Humanitarian Relief and Resilience Program while maintaining her role on the Advisory Board for Neighborhood Nexus.

Kevin received a bachelor's, master's and Ph.D. in aerospace engineering from Georgia Tech. He is presently leading a team supporting U.S. Air Force development of hypersonic weapon systems and advanced missiles at Eglin AFB with Leidos. Prior to Leidos, Kevin served as a Director at Raytheon in the Space and Intel group and was a Program Manager at DARPA where he led a \$225M effort and started a new effort to reinvent military ground vehicles. He also worked at GTRI as a research engineer on many different research programs, and taught Thermodynamics for the School of Mechanical Engineering. Kevin also spent three years in Melbourne, Australia as the Department Head for Aerospace Engineering and for Aviation, as well as a full professor at RMIT University. He has over 100 technical publications and has received numerous awards. Kevin and his wife, Sue, and their two children are settling into the 'salt life' in Florida, where they enjoy the beach and boating but also frequently travelling around the world.



**KEVIN C. MASSEY**

**B.A.E. '92, M.S.A.E. '94,  
Ph.D.A.E. '97**

**Hypersonics and High  
Speed Weapons Lead**

**Senior Supervisory  
Engineer, Leidos**



**LUCY  
PETTITT-SCHIEBER**

**B.S.Ch.B.E. '12**

**Well Integrity Engineer**

**BP Oil Industry**

Lucy Pettitt-Schieber graduated from Georgia Tech with a bachelor's degree in chemical and biomolecular engineering in 2012. She is currently a well integrity engineer for BP, where she maintains the structural integrity and reliability of BP's Gulf of Mexico wells, helping to deliver over 300,000 barrels of oil per day by developing relationships within different engineering disciplines at BP and with corporate partners. Since graduating from Tech, she has joined BP and rotated offshore to a drilling rig and also held various roles across a variety of disciplines within BP's Deepwater Gulf of Mexico Wells Organization, managing large project budgets and delivering oil and gas production to the business. As the Georgia Tech Chemical Engineering recruiting lead for BP, she supports the local Georgia Tech chapters of AIChE, WIE, and SWE. Lucy has presented at Society of Petroleum Engineers (SPE) conferences and enjoys putting her organizational skills to work volunteering at the Houston Food Bank, training her dog Winston to be a therapy dog, and cheering on the Yellow Jackets from Houston!

Stacie received her bachelor's degree in civil engineering from Georgia Tech in 1996. She later received a master's in both mechanical engineering and business administration from the University of Washington (UW). She also received certificates for aerospace manufacturing and advanced management from UW and Harvard Business School. Stacie started her Boeing career in 1997 as a design engineer for 777 fuselage structure. Stacie was a first level manager in loads & dynamics managing & product development along with configuration analysis leader for airplane development for 787 derivatives. As a senior manager, Stacie led the 787 systems stress team through certification and delivery and created the 787 Airplane Integration office. As a director and chief engineer, she led 767/777 Airframe which was a large integrated product team consisting of more than 800 people, while also serving as director of the BCA Airplane Configuration & Systems Engineering organization. Currently, she is the Director of Structures Engineering for Boeing Commercial Airplanes and sits on the Georgia Tech External Advisory Board for the School of Civil and Environmental Engineering.



**STACIE SIRE**

**B.S.C.E. '96**

**Director of Structures  
Engineering**

**Boeing Commercial  
Airplanes (BCA)**

# ACADEMY *of* DISTINGUISHED ENGINEERING ALUMNI

The Academy of Distinguished Engineering Alumni Award recognizes alumni who have provided distinguished contributions to the Institute, profession, field or society at large. Candidates are highly placed executives and are actively involved in engineering, management, industry, academia or government.



## **DAVID P. CARLTON**

**B.Ch.E. '79**

**Marcus Professor of  
Pediatrics, Emory  
University School of  
Medicine**

After receiving his bachelor's degree in chemical engineering in 1979 from Georgia Tech, David attended the Emory School of Medicine and completed his pediatric training in 1986. He then continued his clinical pursuits in neonatology and research training in developmental lung biology. Later, at the University of Utah, he continued his research in developmental lung biology, focusing on lung injury and water balance in the developing lung. In 2007 David was recruited to Emory as Marcus Professor of Pediatrics in Neonatology to lead the Division of Perinatal-Neonatal medicine for the University. In this position he directs divisional and clinical activities at Children's Healthcare of Atlanta–Egleston, Grady Hospital and Emory University Hospital–Midtown. A principal investigator with NIH, he leads clinical trials at Emory on improving the outcomes of infants requiring neonatal intensive care. David serves on the Board of Directors for the March of Dimes, the External Advisory Board of the Center for Children's Health, and on the Georgia Newborn Screening Advisory Committee. For his significant work, David is a 20-year recipient of the *Best Doctors in America* designation.

Tom received his bachelor's degree in electrical engineering from Georgia Tech in 1988 and earned his master's degree, also in electrical engineering, from Stanford University in 1990. He is currently a general partner at Redpoint Ventures, an early-stage venture capital firm that he co-founded in 1999. Over the last two decades, Redpoint has invested in more than 500 new technology companies, over 150 of which have had successful IPOs or acquisitions. Since 2007, Tom has overseen Redpoint's growth stage investing activities, where they successfully identified and helped build emerging technology leaders such as Twilio, Zendesk, Zuora, Sonos, Just-Eat and Stripe. Because of such investment career success, his name was included in the Forbes Midas List of the top 100 technology investors. Prior to co-founding Redpoint in 1999, Tom was a general partner with IVP. He is past president of the Western Association of Venture Capitalists and a former member of the Georgia Tech Advisory Board.



**R. THOMAS DYAL**

**B.E.E. '88**

**Co-founder & General  
Partner**

**Redpoint Ventures**



## **ÓSCAR GALLEGO**

**B.M.E. '91**

**European Director  
Digital & Chairman of  
the Board Spain Digital  
General Electric, Oil &  
Gas, Digital (BHGE)**

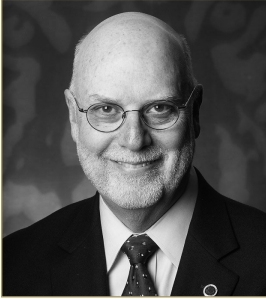
Óscar received his bachelor's degree in mechanical engineering from Georgia Tech in 1991 while simultaneously receiving his degree in mathematics and science from St. Andrews. He also earned an EMBA from the European University in Belgium and a Ph.D. in Economics & Business Science Cum Laude Unanimous from the Universidad Pontificia Comillas in Spain. In 1992 Óscar started working in manufacturing for Procter & Gamble in Belgium and came back to Spain as Global Account Manager for DHL. During this time he also worked as a consultant for Arthur D. Little. In 2001 he joined Hewlett Packard for 14 years and received a Global Account 2014 President's Quality Award. He left HP to co-fund as CEO a 3D printing start-up and received the 2016 EU BS Entrepreneur Award. Currently, Óscar is a European Director for General Electric Oil & Gas Digital (BHGE) and Chairman of the Board for General Electric Spain Digital. Óscar works part time as Professor at IESE, Universidad de Deusto and ICADE. He volunteers as Board Director of Tetramax, Industry 4.0 lead at DigitalES, Consejeros Invest President and a mentor in IMPACT (European accelerator).



Mary graduated in 1981 with a bachelor's degree in electrical engineering from Georgia Tech and a bachelor of science degree from Spelman College. She also holds an MBA from Virginia Commonwealth University. Mary's most recent role was Vice President at Altria, where she was a member of the Altria Leadership team facilitating the Quality Management System and the Safety, Health and Environmental Management System across the Altria family of companies. Since joining the company in 1987, she has held a variety of leadership positions, overseeing operations of 3000+ employees in facilities within North Carolina and Virginia. Mary has served on several boards, including Rowan-Cabarrus Community College board and Virginia Manufacturing Association. She has been recognized as one of the Outstanding Women in Business by the Charlotte Business Journal and as Remarkable Business Woman of the Year in Richmond by the Metropolitan Business League. She currently serves on the Board of Trustees for Virginia Union University and the Board of Governors for the Virginia Home for Boys and Girls. She was also instrumental in supporting Georgia Tech students pursuing degrees in engineering through her generous endowment.



**MARY A. GORDON**  
**B.E.E. '81**  
**Former Vice President**  
**Altria**



**DENNIS W. KELLY**

**B.M.E. '76**

**Inaugural Dean**

**Q. William Hammack  
School of Business at  
Oglethorpe University**

Dennis received his bachelor's degree in mechanical engineering from Georgia Tech in 1976, and he earned his master's degree in business administration from Harvard University in 1981. Immediately after graduation from Georgia Tech, Dennis held managerial positions with Procter & Gamble. He is currently the Inaugural Dean of the Q. William Hammack School of Business at Oglethorpe University. Prior to his appointment at Oglethorpe, Dennis served for seven years as the director of the Smithsonian's National Zoological Park and Conservation Biology Institute in Washington, D.C. and Front Royal, Virginia. In 2016 and 2017, Dennis served as the Chair of the Board of Directors of the Association of Zoos and Aquariums. He held the position of CEO of Zoo Atlanta from 2003 to 2010, and prior to Zoo Atlanta, he was President, CEO and Vice Chairman of Green Mountain Energy Co. He also held executive positions within Coca-Cola. Dennis is a veteran of the U.S. Army and currently serves on the board of the Woodruff School of Mechanical Engineering.

Sam received his bachelor's degree in industrial engineering from Georgia Tech in 1990 and also holds an MBA from the Harvard Business School. Sam is the Chairman & CEO of Prospect Medical Holdings, Inc., a national integrated healthcare delivery services company. Based in Los Angeles, California, Prospect owns and operates hospitals, clinics, physician practices, outpatient centers, behavioral services, and medical groups with a total of 12,000 physicians operating in California, Texas, Rhode Island, Pennsylvania, New Jersey and Connecticut. Prior to founding Prospect, Sam was a partner at Kline Hawkes & Co., a healthcare services and technology venture capital firm; president & founder of SFS, a healthcare systems and revenue cycle management company; and a senior consultant with Andersen Consulting. Sam has served on the Boards of the Harvard Business School Healthcare Initiative, Georgia Tech ISyE Advisory Board, Vicente Capital Partners, California Science Center and the I Have A Dream Foundation. Sam is also active with the Young Presidents' Organization (YPO), a premier leadership organization of chief executives in the world.



**SAMUEL S. LEE**

**B.I.E. '90**

**Chairman and Chief  
Executive Officer**

**Prospect Medical  
Holdings Inc.**



**CYNTHIA (CINDY)  
LODGE**

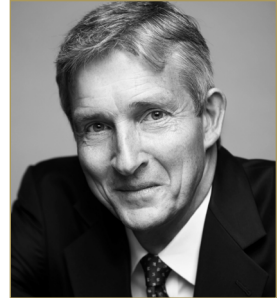
**B.Cer.E. '84**

**Associate Director,  
Office of Budget  
Planning and  
Integration**

**U.S. Geological Survey**

Cindy earned a bachelor's degree in ceramic engineering and a professional certification in logistics from Georgia Tech in 1984. She also received a master's in industrial engineering management from the University of Central Florida and an MBA from Nova Southeastern University. She is currently the Associate Director of the Office of Budget, Planning and Integration in the U.S. Geological Survey (USGS). Cindy came to the USGS after a 27-year career with the National Aeronautics and Space Administration (NASA) at the Kennedy Space Center and Washington D.C. Headquarters. Throughout her career, she has improved engineering methods with innovative enhancements, produced analytical studies for key agency programs, and evaluated and selected proposals for space systems. Named Engineer of the Year by the Society of Logistics for her work on the International Space Station, Cindy also received NASA's Exceptional Service Medal, Certifications of Commendation, and was presented with the "Silver Snoopy" award, a prestigious recognition given to only one percent of the space industry.

Dierk received his master's degree in aerospace engineering in 1987 and his Ph.D. in 1988 from Georgia Tech. He came to Georgia Tech on a World Student Fund Scholarship, became President of Graduate Student Government and was awarded the Monie A. Ferst Award for his thesis. Dierk became one of the pioneers for using math and computers to automate the trading of foreign exchange at Goldman Sachs and Deutsche Bank, resulting in nine patents. After the 2008 financial crisis, Dierk co-founded Lucid Markets in London. Lucid Markets was one of the pioneers of electronic market making in the global cash and futures markets. As phone and 'click-based' trading was replaced by computers, the cost of client trading decreased, and the industry changed dramatically. Critical to the success were carefully validated safeguards built into the decision-making of an infrastructure capable of trading millions of transactions per second. Today, Dierk is excited to contribute to the board of the School of Aerospace Engineering and create software to set new general aviation records. On the home front, he enjoys traveling with his wife Caroline.



## **DIERK REUTER**

**M.S.A.E. '87,  
Ph.D.A.E. '88**

**Co-founder**

**Lucid Markets**



## **YANCY W. RIDDLE**

**M.S.M.S.E. '98,  
Ph.D.M.S.E. '01**

**Chief Operations Officer  
Nearshore Technology**

Yancy received a master's degree in materials science & engineering in 1998 and a Ph.D. in MSE in 2001, both from Georgia Tech. He went on to receive postdoctoral degrees from the Norwegian University of Science and Technology and Worcester Polytechnic Institute, along with a business leadership degree from Harvard University. He is currently the chief operations officer of Nearshore Technology, which was voted one of the fastest growing private companies in the USA by Inc. Magazine in 2018. Yancy was previously the President and CEO of Sixth Sense, a medical technology integration provider. He has built his career on rigorous educational training and 20 years of manufacturing experience in the U.S., North America, Europe, Asia, India, the Middle East and parts of Latin America. Throughout his life, Yancy has traveled the world for business, gaining invaluable experiences and best-practices throughout all facets of international/intercultural business. He was inducted to Georgia Tech's Council of Young Leaders for significant contributions to technology and society and has served on a variety of business development boards, U.S. government national advisories, academic appointments and corporate boards.

Frank received his bachelor's degree in civil engineering from Georgia Tech in 1981. He currently serves as Chairman of the Board, CEO & President of Williams Industries Inc. and Williams Enterprises of Georgia. Upon graduation from Georgia Tech, Frank joined the family business, which has become the largest steel erection operation in the eastern United States. The Williams' companies specialize in structural steel erection, installation of prestressed and precast concrete products, heavy hauling, crane rental and rigging. Major steel erection projects include the World of Coca-Cola, Georgia Aquarium, Philips Arena, College Football Hall of Fame, Capital One Arena, U.S. Botanic Garden, renovations at the Pentagon, and National Archives and major additions to prominent urban airports. Frank served on the Georgia Tech School of Civil and Environmental Engineering Advisory Board from 2004–2012. He is also a Board Member and past President of the Virginia/Carolina Steel Fabricators Association and serves as Board Chairman for the Northern Virginia Baseball Fellowship of Christian Athletes and the Vienna Baseball Foundation. He now lives in Vienna, Virginia, with his wife and son.



**FRANK E.  
WILLIAMS, III**

**B.C.E. '81**

**Chairman of the Board,  
CEO, & President**

**Williams Industries  
Inc., Williams  
Enterprises of Georgia**

# ENGINEERING HALL *of* FAME

Membership in the Engineering Hall of Fame is reserved for individuals holding an engineering degree or an honorary degree from Georgia Tech. Those chosen have made meritorious engineering and/or managerial contributions during their careers.



## **C. PERRY BANKSTON**

**B.A.E. '71, M.S.A.E. '73,  
Ph.D.A.E. '76**

**Project Manager**

**Jet Propulsion  
Laboratory, California  
Institute of Technology  
(Retired)**

Perry received a bachelor's degree from Georgia Tech in aerospace engineering in 1971. After a stint in the Naval Reserve, he returned to graduate school at Tech, completing M.S. and Ph.D. degrees. He joined NASA's Jet Propulsion Laboratory in 1978 and remained there until his retirement in 2016. During those 38 years, Perry had the privilege of supporting many of NASA's greatest space programs. In his first decade at JPL, he published in the fields of combustion, energy conversion and storage, and space power systems. After moving into management, Perry held management positions in support of Cassini, Mars Pathfinder and Mars Exploration Rovers, among many other NASA programs. He also led the formulation phase of the NuSTAR mission and initiated technology development programs in advanced optical systems for NASA and other agencies. He holds six patents in space power systems technologies and has received several awards, including the Aerospace Power Systems Award from the American Institute of Aeronautics and Astronautics (1999), the JPL Magellan Outstanding Senior Management Award (2014) and more. Perry has also served on the Georgia Tech Aerospace Engineering Advisory Council and the Alumni Association Board of Trustees.



Born and raised in Columbus, Georgia, Shelley Blount is a 1961 graduate of Columbus High School and a 1971 graduate of Georgia Tech with a bachelor's degree in textiles. His business career includes eight years with Milliken and Co., Blacksburg, South Carolina; four years with ZIMA Corporation, Spartanburg, South Carolina; and three years with Greenville Machinery Corporation, Greer, South Carolina. A U.S. Army veteran (1967–1970), in 1985 Shelley co-founded Jocassee Designs Inc. in Duncan, South Carolina and currently serves as Vice President and CFO. Since 1992 he has served as Chairman of several Board of Directors, including the Spartanburg Area Chamber of Commerce, The Palmetto Bank in Duncan, South Carolina and others. Shelley also served on the Board of Trustees of the Georgia Tech Alumni Association (July 2000–June 2003) and the External Advisory Board of the School of Polymer, Textiles and Fiber Engineering. Shelley and his wife Becky are loyal Georgia Tech supporters with season football tickets since 1990; 52 consecutive giving years to Roll Call; A-T Fund givers at the Alexander level; estate gift stipulations in their wills; and an endowment in their names at the School of MSE (PTFE). Shelley is a member of the Reidville Road United Methodist Church in Moore, South Carolina, where he has served as Chair of several committees.



**ROBERT SHELLEY  
BLOUNT**

**B.T.E. '71**

**Co-founder, Vice  
President and CFO**

**Jocassee Designs Inc.**



**WILLIAM R.  
COLLINS, JR.**

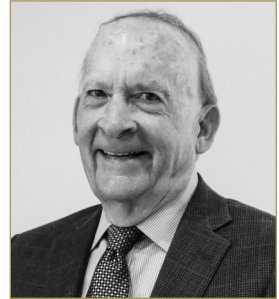
**B.M.E. '57,  
M.S.Mgt. '63**

**CEO**

**Collins and Arnold  
Construction, LLC  
(Retired)**

Bill earned his bachelor of mechanical engineering in 1957 and an M.S. in management in 1963 from Georgia Tech. He is a retired CEO of Collins and Arnold Construction, LLC, a company that builds retail and commercial facilities throughout the South. Born and raised in Atlanta, Bill served a stint in the U.S. Army before going to work for The Pinkerton and Laws Company for 32 years. He was president and chairman when he left in 1992 to start his own company. His previous business endeavors include ownership of 26 Burger King Restaurants, farming 6,000 acres, and ownership of over 15 self-storage facilities. An emeritus member of the Georgia Tech Foundation's board of trustees, Bill has received the Joseph M. Petit Alumni Distinguished Service Award and the Academy of Distinguished Engineering Alumni. He has also served on the Governor's Board of Community Affairs. Collins and his wife, Jackie, reside in Milton and have three children, five grandchildren and one great-grandchild. Two of his children, his son-in-law, two grandchildren and both of their spouses are graduates of Georgia Tech, and another granddaughter is currently a first year student at the Institute.

Before receiving his bachelor's degree in mechanical engineering in 1961 from Georgia Tech, Ray was awarded an academic scholarship to Stanford University Engineering graduate school. He earned a master's degree with a specialization in thermodynamics from Stanford in 1962. Ray immediately began work on the Apollo Lunar Landing Program, continuing the Aerospace Engineering career that he began under the Georgia Tech Industrial Co-Operative Engineering Program in Dallas, Texas. In the mid-1960s he led a corporate/NASA engineering/software team that created a solution to a mission critical thermodynamics problem on the Apollo spacecraft — which performed flawlessly on all Apollo missions from 1968–1972. Ray's subsequent four-decade career in Aerospace Engineering and Corporate Executive Management included additional leadership positions in manned spaceflight programs beyond Apollo, including the NASA Space Shuttle and the International Space Station, which is currently in earth's orbit. His other program management activities included those for earth orbital rocket launch vehicles, orbital teleoperation maneuvering spacecraft and ballistic missile interceptors. In 1999 Ray retired from his position as Director of Space Programs for a division of Lockheed Martin Corporation in Dallas, Texas. He and his wife, Elaine, have been married 57 years and currently live in the San Diego area.



**RAYMOND J.  
FRENCH**

**B.M.E. '61**

**Director of Space  
Programs**

**Lockheed Martin  
Corporation (Retired)**



## **JERRY S. JOHNSON**

**B.E.E. '57**

**Chairman and CEO**

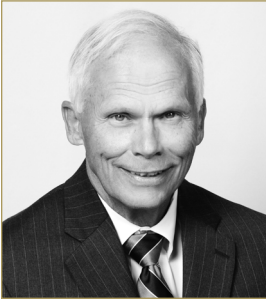
**Adcor Electronics  
(Retired)**

Jerry earned his bachelor's degree in electrical engineering from Georgia Tech in 1957 and earned an MBA from Georgia State University. He worked for Georgia Power through the Co-Op Program during his undergraduate work at Tech and continued to work there after graduation. Jerry's career lead him into commercial and industrial sales positions with Cincinnati Gas and Electric and Honeywell Industrial Products. In 1970, he and two former Tech classmates purchased Adcor Electronics, a residential security alarm equipment manufacturer, where he served as Sales Manager, Vice President of Marketing, Chairman and CEO, retiring in 1983. After 10 years of retirement, Jerry moved to Alamogordo, New Mexico. There he was a civic leader, philanthropist and founding partner of a venture focused on subdivision development and real estate financing. Through his philanthropic work, he established an endowment fund for the New Mexico Rails-to-Trails Association and a scholarship fund administered by the Alamogordo Rotary Foundation. Dedicated to the Tech Co-Op Program, Jerry established a scholarship fund to assist current and future Tech Co-Op students. He moved back to Georgia two years ago to be near his wonderful family.

Joe graduated from Georgia Tech in 1980 with a bachelor of science degree in Health Systems. He later earned an MBA in Finance from Golden Gate University. Most recently Joe served as President and Chief Operating Officer for DaVita Medical Group — a \$4B operating division of DaVita Inc. — having returned to DaVita after several years as a private investor and consultant. From 2000 to 2009 he served as Chief Operating Officer of DaVita and grew the company financially from \$1.7B to \$7.0B. Prior to DaVita, Joe served in senior management at various large health care services organizations, including COO at both MedPartners and Caremark. He was also a partner in the health care consulting group at KPMG. Joe currently serves on the board of directors for privately held health care businesses. Additionally, he served on the boards of multiple public companies in health care and financial services. Active in local and national nonprofit organizations, Joe has remained diligently engaged in Georgia Tech throughout the years, serving on the H. Milton Stewart School of Industrial and Systems Engineering Board of Advisors and the Georgia Tech Advisory Board.



**JOSEPH C. MELLO**  
**B.I.E. '80**  
**President and COO**  
**DaVita Inc. (Retired)**



**G. BEN  
TURNIPSEED**

**B.C.E. '69**

**Chairman**

**Turnipseed Engineers**

Ben graduated from Georgia Tech in 1969 with a bachelor's degree in civil engineering (co-op plan). As both a cooperative student and after graduation, Ben worked for three engineering firms that specialized in environmental, water and wastewater engineering. In 1978 he founded G. Ben Turnipseed Engineers Inc. Since its founding, the firm has specialized in meeting the water needs of small- to medium-sized cities and counties in Georgia and South Carolina. Serving more than 100 cities and counties, the firm has designed more than 120 water and wastewater treatment plants. In 2002 Ben was inducted as a Distinguished Alumni by the Georgia Tech College of Engineering and in 2011 became a Life Member of both the Water Environment Federation and the American Society of Civil Engineers. The company name was changed to Turnipseed Engineers in 2015 when Ben became Chairman after being President for over 37 years. Ben has served on the School of Civil and Environmental Engineering Advisory Board, and both the firm and Ben have been active in providing endowed scholarships for students in engineering, public administration, or majors involved with water and wastewater treatment.

In 1952 John earned a bachelor of chemical engineering degree from Georgia Tech. Immediately he entered the U.S. Navy and served as an as Operations and Electronics Officer on an experimental ship. After active duty, he joined the Process Development staff of E. I. du Pont's Fibers Division where they developed nylon polymer. Three years later John moved to a family business, Steward, Incorporated, a producer of dielectric and ferromagnetic materials. The company specialized in electromagnetic absorbers, developing products particularly useful in suppressing interference for the information processing industry. He received his Professional Engineering License in 1970 and subsequently earned a Master of Science Degree in Engineering Management from the University of Tennessee at Chattanooga. In addition to his professional work at Steward, John served as Chair of the Chattanooga-Hamilton County Air Pollution Control Board and maintained community compliance with the requirements of the Clean Air Acts of 1970 and 1972. After Steward grew into a world-wide producer of magnetics with plants in Mexico and China, in 2007 it was acquired by United Kingdom conglomerate Laird Technologies, Incorporated.



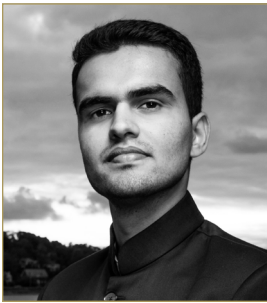
**JOHN H. WOODY, JR.**

**B.Ch.E. '52**

**Director of Engineering  
Steward, Inc. (Retired)**

# DEAN'S IMPACT AWARD

In the College of Engineering, we are committed to a multicultural, multidisciplinary, sustainable and international engagement by our students. The Dean's Impact Award recognizes the efforts of those graduates who are focused on developing globally-relevant, locally-sustainable designs and innovations that meet societal challenges across the world. These alumni embrace engineering for having big impact and who have a vision to find solutions focused on the world's grand challenges.



## OASIS WATER TEST, INC.

**Arjun Bir**

**B.S.C.E. '18**

**Founder**

Arjun joined Georgia Tech in 2014 as an undergraduate civil engineering student and began working with Dr. Joe Brown to broaden access to clean drinking water in the developing world. After two years of leading the development of low-cost water purification devices, his focus switched to accessible water testing methods. In 2016, Arjun led a capacity-building exercise focused on the use of low-cost water tests for UNICEF and the Government of Bolivia at UNICEF's national headquarters in LaPaz.

This experience inspired him to design the Oasis water test, a simple and inexpensive device that enables anyone, irrespective of age or educational qualification to test water for microbial contamination. By offering an alternative to the tedious and expensive standard method, the Oasis test enabled large scale water quality monitoring and crowd sourcing of water quality data for the first time. Field trials conducted in partnership with UNICEF and universities across the world, including Georgia Tech, established the test as a powerful and accurate device. Arjun founded the company headquartered in Bangalore, India to take these tests to the market, and was awarded the 2018 MIT Water Innovation Prize for his work.

Originally from Bangalore, India, Arjun also started the country's first student-run non-profit at the age of 16. Named "India Forward", the organization is dedicated to making quality education accessible to those that cannot afford it and has been actively involved in mentorship and after-school programs in Bangalore's orphanages and slums.



# DEAN'S APPRECIATION AWARD

It is acknowledged that the College of Engineering has many valued supporters who are recognized and appreciated continuously during the course of the on-going activities in the college. This award is intended to honor those special individuals who have made extraordinary contributions to the advancement of the College of Engineering at Georgia Tech. The award may go to engineering alumni or to honor individuals who have brought distinction to the College of Engineering and Georgia Tech.

Christopher Klaus is a successful entrepreneur, delivering 3D virtual worlds as the founder and CEO of Kava.

He also has a long relationship with Georgia Tech. Today Klaus invigorates the future of technology at Georgia Tech by supporting CREATE-X, a program that gives students a platform to connect with industry leaders and receive the guidance, support—and capital—to launch their own startups. In 2000, Klaus responded to the need to help sustain the technology revolution, and with his pledged donation, Georgia Tech constructed the Christopher W. Klaus Advanced Computing Building, a three-story academic building (over 400,000 square feet of space) that houses a portion of its College of Computing, College of Engineering, and related programs.

Prior to founding Kava, Klaus founded and served as CTO of Internet Security Systems Inc. (ISS), a company he created in 1994, took public in 1998, and was acquired by IBM in 2006 for over \$1.9 billion. He sits on the state's Film, Video, and Music Advisory Commission. Klaus serves on the Savannah College of Art and Design (SCAD) Board of Visitors, the Georgia Game Developers Association (GGDA), the Georgia Tech Foundation, and the Georgia Tech College of Computing.



**CHRISTOPHER KLAUS**

**Founder & CEO**

**Kava**

# COLLEGE OF ENGINEERING SCHOOL CHAIRS



**MARK COSTELLO**

Chair and  
William R.T. Oakes Professor,  
The Daniel Guggenheim School  
of Aerospace Engineering



**SUSAN MARGULIES**

Wallace H. Coulter Chair,  
The Wallace H. Coulter Department  
of Biomedical Engineering  
at Georgia Tech and Emory



**MAGNUS EGERSTEDT**

Steve W. Chaddick Chair,  
The School of Electrical and  
Computer Engineering



**H. EDWIN ROMEIJN**

H. Milton and  
Carolyn J. Stewart Chair,  
The H. Milton Stewart School of  
Industrial and Systems Engineering



**DAVID SHOLL**

John F. Brock III Chair,  
The School of Chemical and  
Biomolecular Engineering



**DONALD WEBSTER**

Karen and John Huff Chair,  
The School of Civil and  
Environmental Engineering



**NARESH THADHANI**

Chair,  
The School of Materials Science  
and Engineering



**SAMUEL GRAHAM**

Eugene C. Gwaltney, Jr. Chair,  
The George W. Woodruff School  
of Mechanical Engineering

# HISTORY *of the* ALUMNI AWARDS

The College of Engineering Alumni Awards were created in 1994 to recognize outstanding engineering alumni from the College.

Currently, the College of Engineering recognizes select alumni who have contributed to the profession, advanced in their careers, and enhanced the lives of others both personally and professionally. These outstanding alumni are reviewed by each of the eight schools within the College and formally submitted for selection.

The measure of our success is not seen only in educating our students, but in those students' achievements and contributions after leaving campus. Those being recognized, as well as those who have been honored at past ceremonies, are stellar examples of the success and leadership the College hopes to inspire.

## SPECIAL THANKS

**Admiral James A. "Sandy" Winnefeld, Jr.**

CO-HOST

**Dawn Andrews (AE)**

PIANIST

**Fatima Sheriff (ME)**

STUDENT SPEAKER

**Buzz**

**Clark Scholars**

**Ramblin' Wreck Club**

**Georgia Tech Alumni Band**

**College of Engineering Staff**

# “RAMBLIN’ WRECK”

I’m a Ramblin’ Wreck from Georgia Tech and a hell of an engineer,  
A helluva, helluva, helluva, helluva, hell of an engineer,  
Like all the jolly good fellows, I drink my whiskey clear,  
I’m a Ramblin’ Wreck from Georgia Tech and a hell of an engineer.

Oh, if I had a daughter, sir, I’d dress her in white and gold,  
And put her on the campus, to cheer on the brave and bold.  
But if I had a son, sir, I’ll tell you what he’d do.  
He would yell, “To hell with Georgia,” like his daddy used to do.

Oh, I wish I had a barrel of rum and sugar three thousand pounds,  
A college bell to put it in and a clapper to stir it around.  
I’d drink to all good fellows who come from far and near.  
I’m a ramblin’, gamblin’, hell of an engineer!

**Georgia**  **College of**  
**Tech** **Engineering**