



**Clemson University Research Foundation
Board of Directors
Profiles**

March 2016



George Acker
Vice President External Relations
Duke Energy South Carolina

George Acker is the Vice President of External Relations for Duke Energy South Carolina, serving approximately 715,000 electric retail customers in the state. He is responsible for advancing the company's rate and regulatory initiatives and managing state and local regulatory and governmental relations, economic development and community affairs. George serves as the company's lobbyist principal for the state.

Since 1981, George has worked for Duke Energy in a number of capacities across North Carolina and South Carolina. He began his career with Duke Energy in Charlotte, NC. He came to Greenville, SC as an office manager. George continued his career in South Carolina as a district manager in Greenville, Anderson, Columbia, and Spartanburg. He has been in his current position since 2010.

He has been active in a number of organizations including chairing the Upstate SC Alliance and formerly chairing the South Carolina Independent Colleges and Universities and Greenville Chamber. George is a graduate of Leadership SC and has been involved in civic and economic development groups across the state. He serves as a board member for the Greenville and Spartanburg Chambers, the SC State Chamber, and Cannon Hospital. George currently serves as the Chairman of the Upstate Employers Network, the Secretary for the Clemson University Research Foundation, and a Commissioner for Tri-County Technical College.

George earned a bachelor's degree from the University of North Carolina at Chapel Hill in 1973 and a master's degree from the University of North Carolina at Charlotte in 1976.

George and his wife, Susan, have 3 children and currently live in Pickens, SC.

Duke Energy, one of the largest power companies in the United States, supplies and delivers electricity to approximately 7 million customers in the Southeast and Midwest. The company also distributes natural gas in Ohio and Kentucky. Its commercial power and international businesses operate diverse power generation assets in North America and Latin America, including a growing renewable energy portfolio. Headquartered in Charlotte, N.C., Duke Energy is a Fortune 250 company traded on the New York Stock Exchange under the symbol DUK.



Stanley C. Ahalt, PhD

***Director of the Renaissance Computing Institute
University of North Carolina at Chapel Hill***

Stan Ahalt became director of the Renaissance Computing Institute (RENCI) at the University of North Carolina at Chapel Hill in September 2009. He leads a team of research scientists, software and network engineers, data science specialists and visualization experts who work closely with faculty research teams at UNC, Duke, NC State and with partners across the country. RENCi's role is to provide enabling cyberinfrastructure to these research collaborations, which often means working on the challenges of data management, sharing, integration and security.

Dr. Ahalt is also a professor in the UNC Computer Science Department and directs the Biomedical Informatics Core of the North Carolina Translational and Clinical Sciences Institute (NC TraCS), UNC's CTSA award. In this role, he leverages the expertise and resources of RENCi to foster clinical and translational research across the UNC campus.

Dr. Ahalt's primary foci in the recent years have been on two major data science initiatives: The National Consortium for Data Science (NCDS) and the iRODS Consortium. The NCDS is a private-public partnership of leaders in academia, industry and government formed to address the data challenges of the 21st century and advance data science. The iRODS Consortium, which includes the Max Planck Society as a key founding member, is an effort to establish a community to sustain the popular integrated Rule-Oriented Data System, developed at UNC and UC San Diego. RENCi leads the effort to develop iRODS as an enterprise-quality solution, complete with rigorous testing and a robust, feature-rich code base. Dr. Ahalt is also principal investigator for the Water Science Software Institute project, which is developing a strategic plan to develop an institute that will build and support a cyberinfrastructure for managing, sharing and using water science data.

Dr. Ahalt was executive director of the Ohio Supercomputer Center (OSC) from 2003 to 2009 and a professor in the department of electrical and computer engineering at The Ohio State University for 22 years. He is a member of Microsoft's Technical Computing Advisory Committee, the Council on Competitiveness High Performance Computing Advisory Committee, and an extramural member of the National Cancer Institute's Advanced Biomedical Computing Center Oversight Committee. Dr. Ahalt serves in the Boards of the Arizona State University Advanced Computer Center, and National Lambda Rail.

Dr. Ahalt holds a Ph.D. in electrical and computer engineering from Clemson University and master's and bachelor's degrees in electrical engineering from Virginia Polytechnic Institute and State University.

George R. Askew, Jr.

***Vice-President, Public Service and Agriculture
Dean, College of Agriculture, Forestry and Life Sciences
Clemson University***



Dr. George Askew's work as a forestry researcher, faculty member, and university executive has spanned more than 30 years. His career includes a leading role in developing the Baruch Institute of Coastal Ecology and Forest Science, serving as a director in Clemson's Extension and research programs, developing a long-term plan to improve off-campus graduate education in agriculture and natural resources, participating in the reorganization of Clemson University Public Service and Agriculture goals and commitments, and administering the Clemson University Experiment Station, which is a federal funding portal for agriculture, forestry, and life sciences research.

Dr. Askew earned his Ph.D. in Agronomy in 1981 from Clemson University, where he also matriculated for his B.S. and M.S. degrees. The university recruited him as a forest geneticist and assistant professor stationed at the Belle W. Baruch Forest Science Institute in Georgetown, S.C. In 1985, he was promoted to associate professor and institute director. In 1991, Dr. Askew advanced to professor of forestry and the first director of the newly formed Belle W. Baruch Institute for Coastal Ecology and Forest Science.

Dr. Askew's commitment to the coastal communities earned him the respect and trust of longtime Georgetown families. His advocacy for coastal ecology research and education led to his being named Executive Director and board member of the Wallace F. Pate Foundation for Environmental Research and Education, an organization that monitors the land use and management of Clemson's resources at DeBordieu, an historic coastal community. Dr. Askew orchestrated a Memorandum of Understanding among Clemson University, Brookgreen Gardens of Georgetown, the S.C. Nature Conservancy, and the U.S. Fish and Wildlife Service to support research and education in the upper coastal region of South Carolina.

In 2002, Dr. Askew was named interim director of the Clemson University Pee Dee Research and Education Center in Florence, followed a year later to being appointed permanent director. In 2004, serving as Regional Director for a 12-county Extension Service program was added to his responsibilities. During Dr. Askew's tenure at the Pee Dee REC, he led the plan to reposition the REC to provide expanded research in advanced plant technologies, enabling improved row crop output and new crop development. The results of the initiative were recognized by the university and the S.C. Legislature, which approved a recurring \$2 million appropriation to fund 10 faculty positions and 6 technicians at the REC to focus on advanced plant technologies.

Promoted to Interim Associate Director of Agriculture and Natural Resources for the Experiment Station and Extension in 2007, Dr. Askew moved to the main Clemson campus. A year later he was made Associate Director of the Experiment Station and Associate Dean for Agriculture and Natural Resources. In 2009, Dr. Askew was named Chief Operating Officer of the Clemson University Experiment Station and associate dean. In 2011, he was named Associate Vice-President for Public Service and Agriculture and Director of the Experiment Station. In 2014, Dr. Askew was named Vice-President for Public Service and Agriculture by President Jim Clements and also continued to serve as the Experiment Station Director.

In his role as Experiment Station leader and associate dean, Dr. Askew has worked to establish strong working relationships with the College of Agriculture, Forestry, and Life Sciences and each of its 10 departments. The results have been a unified and collaborative system to identify faculty needs and improve graduate programs in line with Public Service and Agriculture goals. Dr. Askew has been critically involved in ongoing budget challenges, balancing revenue needs while ensuring strategic programs are supported.

As Vice-President, he represents the four Public Service units which include the Experiment Station, Extension, Regulatory Services, and Livestock & Poultry Health as well as Clemson's agriculture and natural resources programs in strategic planning and general university governance.

In April, 2015, Dr. Askew was named Dean of the College of Agriculture, Forestry and Life Sciences. He is responsible for the administration of 4 departments and the school within the college including teaching, research, and outreach activities.

Dr. Askew continues his appointment as professor. He is author or coauthor of 46 peer-reviewed publications, principal or co-principal investigator on nine grants and featured presenter at eight national or regional scientific meetings. Dr. Askew is a member of Xi Sigma Pi Forestry Honor Society, Omega Rho International Honor Society of Operations Research, Biometrics Society, Society of American Foresters, S.C. Forester's Council, and the S.C. Forestry Association, where he is currently a member of the Board of Directors.



JOSEPH T. BAILEY, PHD

EDUCATION

1955: Calhoun-Clemson High School, Clemson, SC
1959: Clemson University: BS, Ceramic Engineering
1960: Clemson University: MS, Ceramic Engineering
1966: The Ohio State University: PhD, Ceramic Engineering

MILITARY SERVICE

1960-1962: 2nd Lieutenant/1st Lieutenant, U.S. Army Ordnance Corps, Project Officer, U.S. Army Ballistic Missile Agency, Redstone Arsenal, AL.

CAREER

3M COMPANY: AMERICAN LAVA CORPORATION SUBSIDIARY, CHATTANOOGA, TN

1962: Project Engineer, Beryllium Oxide Project
1966: Senior Research Engineer
1969: Research Supervisor
1971: Research Manager

3M COMPANY: ST. PAUL, MN

1974: Technical Director, Technical Ceramic Products Division
1981: Department General Manager, Technical Ceramic Products Department
1983: Department General Manager, Ceramic Materials Department
1989: Research and Development Executive Director, Industrial and Electronics Sector
1990: Research and Development Vice President, Industrial and Electronics Sector
1992: Research and Development Vice President, Industrial and Consumer Sector
2000: Retired on June 1

OTHER ACTIVITIES

The American Ceramic Society: Held all of the offices of the Electronics Division including Division Chair. Named a Fellow of the Society in 1974.

Served 9 years on the Planning Commission for Grant Township, MN

1989-1992: Board of Directors, Durel Corporation

1987-1991: Board of Directors, Delta G Corporation

Served on the Advisory Boards of two venture capital partnerships: Pierce-Nordquist Associates and Ampersand II

Author of several technical papers and hold four U.S. Patents

CURRENT ACTIVITIES

Board of Directors, Clemson University Research Foundation. Served as Board Chairman August, 2001 to August, 2005

Advisory Board, College of Engineering and Sciences, Clemson University. Served as Board Chairman 2005-2006

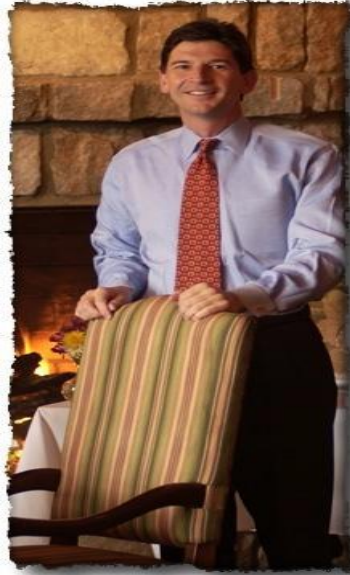
Advisory Board, Applied Research and Development Institute, South Carolina Research Authority and Clemson University

Advisory Board, School of Materials Science and Engineering, Clemson University

Member, Thomas Green Clemson Academy of Outstanding Engineers and Scientists, Clemson University

Andrew B. Cajka, Jr.

***Founder and President
Southern Hospitality Group, LLC***



Andrew B. Cajka Jr., is the founder and president of Southern Hospitality Group, LLC, a hotel management and development company in Greenville, South Carolina. Prior to starting his own business, Mr. Cajka was a management member of Hyatt Hotels Corporation from 1986 until 1998. He is a 1982 graduate of Bowling Green State University. He currently serves as vice chairman of the board for St. Joseph's High School, as chairman of the Greenville County Research and Technology Development board, and as a board member for the Metropolitan Arts Council. He is a past chairman and present treasurer of the Greenville Convention and Visitors Bureau and past chairman of the Greenville Tech Hospitality Board. He is a previous member of the BMW Nationwide Tournament advisory board. Mr. Cajka has served as a board member of the Urban League and Thornblade Board of Governors. Mr. Cajka served on the board of directors for the Greenville Chamber of Commerce and is past president of the downtown area council, as well as past chairman of Greenville Hospital Foundation Board and past chairman of the Children's Hospital. He has substantial development and management experience in the hospitality industry and is extensively involved in the local community, both of which enhance his ability to serve as a director.



James P. Clements

President
Clemson University

Clemson University's 15th president, James P. Clements, took office December 31, 2013, after serving nearly five years as president of West Virginia University. Clements succeeds James F. Barker, who retired after serving as president for 14 years. He is also a Professor in the School of Computing, College of Engineering and Science, at Clemson.

Clements is a nationally recognized voice in higher education who currently serves as chair-elect of the Board of Directors of the Association of Public and Land-Grant Universities; co-chair of APLU's Energy Forum; chair of the American Council on Education's Commission on Leadership and member of the Business Higher Education Forum that includes Fortune 500 CEOs and higher education executives. He previously served on the U.S. Department of Commerce Innovation Advisory Board.

Clements holds a B.S. in Computer Science and M.S. and Ph.D. in Operations Analysis from the University of Maryland Baltimore County, and an M.S. in Computer Science from Johns Hopkins University. He has published and/or presented more than 75 papers in the fields of computer science, higher education, information technology, project management and strategic planning. He has been the principal investigator or co-PI on more than \$15 million in grant funding. During Clements' tenure at WVU, the university set records in private fundraising, enrollment, research and patients served through the health system. Under Clements' leadership, WVU reached \$716 million, or 95 percent of its \$750 million capital campaign goal, two years ahead of schedule. Through WVU projects, as well as public-private partnerships, more than \$1 billion in capital improvements began on campus, in WVU's health care system, and in the community.

Clements began his career as a faculty member and has risen steadily through the academic ranks to the president's office. Prior to his appointment at WVU, Clements served as Provost and Vice President for Academic Affairs, Robert W. Deutsch Distinguished Professor of Information Technology and Vice President for Economic and Community Outreach at Towson University, the second largest university in the University System of Maryland. He also served as the leader of the Center for Applied Information Technology, which was a strategic, entrepreneurial initiative for the university, and chaired Towson's Department of Computer and Information Sciences.

He also has served as a consultant to numerous private-sector companies, including Bell Atlantic Yellow Pages; Chesapeake Directory Sales Corporation; Loyola College; Outreach Technologies; Padova Technologies; Solipsys; UPS/Roadnet Technologies, and Verizon, assisting with strategic planning, development of information technology systems and corporate-wide training programs.



Christie L. Corbett

Senior Managing Director

FTI Consulting

Christie Corbett is a Senior Managing Director in the Transaction Advisory Services practice and is based in Atlanta, GA. Ms. Corbett has advised strategic and financial buyers on more than 200 transactions in various industries.

Ms. Corbett has provided a broad range of buy and sell-side services including financial due diligence, forecast and valuation analysis, the identification of potential buyers and targets, contract structuring and negotiations, and transition and strategic planning.

Ms. Corbett has significant experience across various industry sectors with a focus on with a focus on Healthcare, Software and Technology and Consumer Products. Private equity and lending clients include Goldman Sachs, GE Capital, Altaris, Galen Capital, Thoma Bravo, Crestview and HIG Capital. Corporate clients include Catholic Health Initiatives, HCA, Parallon, ShareCare and Flowers Foods.

Specific to the technology sector, Ms. Corbett has advised on numerous software (license and SaaS) transactions, utilizing extensive knowledge of complex revenue recognition requirements, changing and/or supporting multiple delivery platforms, and the importance of accurate renewal and backlog analyses.

Specific to the healthcare sector, Ms. Corbett has advised on transactions for hospitals, long-term acute care, imaging centers, staffing, medical devices, pharmaceuticals and healthcare related technologies.

Ms. Corbett led post-merger integration efforts for Flowers Foods following their acquisition of Tastykake. She was also a team leader in a process improvement project for one of the largest government contractors in the US.

Prior to joining FTI, Ms. Corbett was the AVP of Mergers & Acquisitions for ChoicePoint, Inc, which was a billion dollar public company prior to its acquisition by Reed Elsevier in 2008. ChoicePoint was a leading provider of business analytics, technology, software, and information services largely to customers in the insurance, banking and governmental industries. While at ChoicePoint, Ms. Corbett executed eight acquisitions in the software and services industries, as well as several divestitures of non-core businesses. Prior to ChoicePoint, she was a Director in PricewaterhouseCoopers' Transaction Services practice. Ms. Corbett began her career with KPMG, where she became a Manager in the audit practice.

Ms. Corbett has a B.S. in Accounting from Clemson University and is a Certified Public Accountant in Georgia and South Carolina.



Brett A. Dalton

Vice President for Finance and Operations
Clemson University

PROFESSIONAL EXPERIENCE:

Vice President for Finance and Operations, Clemson University

The Vice President for Finance and Operations is responsible for the leadership and management of the University's Division of Financial Affairs and is an adviser to the President on financial strategy and resource development. The Vice President supports the mission, vision and goals of the University by:

- Developing long-range financial plans and strategies;
- Promoting financial and institutional integrity and accountability;
- Facilitating comprehensive and wise resource planning and utilization to maximize financial resources;
- Formulating and implementing financial policies and procedures;
- Encouraging strong collaboration among the University's financial professionals;
- Developing an efficient business culture; and
- Providing professional business analysis and consulting services to campus leaders.

The Vice President oversees financial reporting, strategic business services, planning and budgeting, cash and treasury management, capital financing and debt management, facilities, human resources, auxiliaries, procurement, and accounting services including revenue and receivables, and related organizations.

1996 to June 2007 Executive Assistant to the Vice President for Academic Affairs, and Provost Clemson University

Responsible for strategic financial planning and management for the Vice President for Academic Affairs and Provost. Provided strategic resource development and management required to fund an aggressive academic plan which is the core strategy of the University's Top 20 pursuit. Worked directly with the President, the Provost and senior management of the university in developing creative and focused financial operational strategies required to achieve mission critical goals and outcomes.

1992-1996 Director of Financial Planning, Clemson University

Completed Clemson University's first comprehensive Financial Plan/Financial Analysis. Until these planning efforts, there had never been a comprehensive planning effort that forecasted all revenue sources, expenditures, and capital financing needs and outlays. Conceptualized, secured funding for, and managed the development and implementation of the University's first modern cash management/cashiering system. This system with a total cost of approximately \$50,000, helped increase investment earnings by approximately \$2 million in the first full year. Responsible for investment and market analyses and reporting for the University Endowment. Projected enrollment trends, debt service needs and fees, and established debt service plans required for funding major capital projects.

December 1991 – July 1992 Budget Analyst, Clemson University

Responsible for regular and ad hoc budgetary analyses of all budgetary units of Clemson University.

**August 1990 – December 1991 Thurmond Research Fellow, The Strom Thurmond Institute,
Clemson University**

Managed a funded research project assessing the impacts of the “Superfund” statute on local communities in South Carolina. Authored special articles, documents, presentations, and releases for the Institute and for the Community and Economic Development Office.

EDUCATION:

Master of Arts, Economics, Clemson University, 1990

Bachelor of Science, Economics, Clemson University, 1988

PROFESSIONAL AND CIVIC ACTIVITIES:

Board Member, Clemson Research Facilities Corporation

Ex-Officio Director of the Clemson University Foundation

Ex-Officio Director of the Clemson University Real Estate Foundation

Commissioner, South Carolina Deferred Compensation Commission

Governance Committee, Chair

Investment Committee, Member

Board Member, Pickens County Red Cross

Board Member, Palmetto Conservation Foundation

Anand Gramopadhye

Dean of Engineering and Science Clemson University

Anand Gramopadhye assumed the position of Dean of the College of Engineering and Science on July 1, 2013. He now oversees 15 academic departments, which have an enrollment of about 6,700 students.

Gramopadhye joined Clemson in 1992, as an assistant professor. He was named chairman of the industrial engineering department in 2003, and assistant to the dean of the College of Engineering and Science in 2010. In 2011, he was appointed associate vice president for workforce development.



Under his leadership, the industrial engineering department increased in enrollment, research and scholarship. It embarked on several strategic educational and research initiatives in supply chain, logistics and optimization; a health systems research initiative; and additional applied research in global geographic areas, including India, China and the rest of the Asia-Pacific region.

As Associate Vice President for Workforce Development, Gramopadhye helped create the Clemson University Center for Workforce Development (CUCWD). The center partners with statewide K-12 institutions, technical colleges, industry and other academic institutions and centers to address STEM – science, technology, engineering and math - issues to meet the needs of South Carolina’s 21st century knowledge economy. The CUCWD is home to the National Science Foundation Advanced Technical Education Center for Automotive and Aviation Education.

Gramopadhye’s research focuses on solving human-machine system design problems and modeling human performance in technologically complex systems, such as health care, aviation and manufacturing. He has been principal investigator for more than 75 research grants and awards, generating more than \$45 million in funding. Research partners include the National Institutes of Health (NIH), National Science Foundation (NSF), Federal Aviation Administration (FAA), the U. S. Departments of Energy (DOE) and Labor (DOL), the National Aeronautics and Space Administration (NASA), and numerous corporate partners.

Gramopadhye has more than 300 publications and is a Fellow of the Institute of Industrial Engineers. He was recognized twice by the National Academy of Engineering through the Frontiers in Engineering Program as one of the Top 60 engineers in the country, and is editor-in-chief of the International Journal of Industrial Ergonomics.

He earned a bachelor’s degree in production engineering in 1987 from the University of Bombay, India, and a master of science in 1989 and a Ph.D. in 1992, both in industrial engineering, from the State University of New York, Buffalo



Tanju Karanfil

Vice President for Research
Clemson University

Dr. Karanfil became Clemson's vice president for research on Feb. 1, 2016. He is an environmental engineer whose research on improving municipal water quality has been funded with nearly \$10 million. He joined the Clemson faculty in 1996 and served as chair of the environmental engineering and Earth sciences department. In 2014 he was named the associate dean for research in the College of Engineering and Science.

As vice president for research, Dr. Karanfil steers the university's research strategy, which includes working closely with faculty and staff at Clemson and with collaborators in industry and the community. He oversees the management of a portfolio that spans the gamut of science and innovation: advanced materials, cyber-infrastructure, big data science, energy, transportation, advanced manufacturing, health innovation, human resilience, sustainable environment, architecture, education, humanities and the arts.

Dr. Karanfil earned his bachelor's degree in environmental engineering from Istanbul Technical University and completed his graduate work – Master of Science and Ph.D. — at the University of Michigan. He is a fellow of the International Water Association, received a National Science Foundation Early CAREER Award in 2001 and mentored more than 80 graduate students and post-doctoral research associates at Clemson. He also serves as a consultant to water and wastewater utilities and consulting companies.



Martine LaBerge

***Professor and Chair, Bioengineering
Clemson University***

Martine LaBerge serves as Professor and Chair of Bioengineering at Clemson University and Executive Director of the Biomedical Engineering innovation Campus (CUBEInC) in Greenville, SC. She received MS and PhD degrees in Biomedical Engineering from the University of Montreal, and completed post-doctorate work in Mechanical Engineering at the University of Waterloo, before joining Clemson in 1990 as Assistant Professor of Bioengineering. She has numerous publications on the tribological performance of orthopaedic and vascular implants and is an inventor on several licensed patents. Since the beginning of her career, she has served as the major advisor of 70 PhD and MS bioengineering students and managed a research program exceeding \$10M. She received the South Carolina Governor's Award for Scientific Awareness for the development of major programs in the state. She served as President of the Society for Biomaterials (SFB) and received its Inaugural Service Award. She is a Fellow of the American Institute for Medical and Biological Engineering and served as the secretary-treasurer of the AIMBE Academic Council. She was inducted Fellow, Biomaterials Science and Engineering by the International Union of Societies for Biomaterials Science and Engineering. She is a BMES member and concluded a three-year term as Board Director; she currently serves as the Chair of the BMES Membership Committee.

For the past 11 years, some of Dr. LaBerge's major accomplishments as department chair include: fostering the implementation of MD/PhD and DMD/PhD programs with the Medical University of South Carolina in Charleston, securing three named endowed chairs, supervising the construction of two new buildings for bioengineering education and research, developing CUBEInC and securing funding for its facility including incubator space for start-up companies and state-of-the-art surgical-skills and cadaver facilities. She developed the South Carolina Translational Medical Technology Program (SC MedTransTech), a cross-disciplinary collaboration and partnership between the South Carolina Bioengineering Alliance, Stryker, and six partner hospitals to support the development of clinically relevant medical technology. For the past 52 years, the Department of Bioengineering at Clemson University has awarded the PhD degree in Bioengineering followed by the MS degree. Dr. LaBerge is the founding chair of the ABET accredited B.S. in Bioengineering degree (2006) in addition to an M.Eng. in Biomedical Engineering degree. Through her leadership, 15 new full-time tenure track positions were secured to sustain education, research, and economic development missions. She currently supervises a departmental endowment and budget portfolio exceeding \$15M.

Frank A. Landgraff

Senior Intellectual Property Counsel
GE Power & Water
Atlanta, GA



Frank graduated from Clemson University in 1985 with a BS degree in Electrical Engineering and from the University of Florida in 1988 with a JD degree. After graduation, he worked in private practice in Atlanta for six years concentrating on patent preparation and prosecution as well as patent litigation. In 1994, he joined The Coca-Cola Company in Atlanta as Patent and Technology Counsel. Frank was promoted to Senior Patent Counsel in 2000. Frank joined GE Energy in 2002 as Senior Intellectual Property Counsel and remained in that role until September 30, 2012 when he became Senior Intellectual Property Counsel for GE's Power & Water Division. At GE Power & Water, Frank's team manages a large patent portfolio primarily related to power generation equipment, water related technologies and related services.

In addition to his duties with GE, Frank is currently active in community related work through his role as Chairman of the Board for Pro Bono Partnership Atlanta and the Clemson University Research Foundation.

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Cindy Lee

***Chair, Department of Engineering and Science
Education***

***Professor, Environmental Engineering and Earth Sciences
Clemson University***

Dr. Cindy M. Lee is a Professor of Environmental Engineering and Earth Sciences and of Environmental Toxicology at Clemson University. She holds a B.A. in English from Indiana University (1977), a B.A. in Geology and Chemistry from University of Colorado (1984), and a Ph.D. in Geochemistry from the Colorado School of Mines (1990). Dr. Lee joined the faculty at Clemson in 1990. Her major teaching and research interests are the chemistry of environmentally significant organic compounds and environmental sustainability. Dr. Lee's specific research interests involve the use of chiral chemistry as a tool for investigating the fate and transport of pesticides, pharmaceuticals, and persistent organic pollutants (POPs) in the environment; the bioremediation of chlorinated contaminants; and the role of black carbon and natural organic matter in the fate of contaminants. Her research has been supported by grants from both government agencies and private companies, with core grant research support primarily being from federal government (National Science Foundation, U.S. Environmental Protection Agency, U.S. Department of Energy, U.S. Army Corps of Engineers), with additional grant support from state and local governments, industry, and foundations. She has served as interim Associate Dean for Research and Graduate Studies in the College of Engineering and Science (2012-2013) and as interim chair of the Department of Engineering and Science Education (2013-present). From July 2006 to July 2007, Dr. Lee served at the National Science Foundation as the founding Program Director of the Environmental Sustainability Program in the Division of Chemical, Bioengineering, Environmental and Transport Systems (CBET), Directorate of Engineering. Dr. Lee has a national perspective on engineering and science research and research needs in environmental sustainability. She served as a member of the Energy and Environment Coordinating Group for development of the National Aeronautical Research and Development Plan under the auspices of the Office of Science and Technology Policy (OSTP). Dr. Lee participated on the Feedstocks Task Force of the U. S. Department of Energy's Biofuels Action Plan. She is an Associate Editor for Environmental Chemistry for the journal of Environmental Toxicology and Chemistry.



Carol A. Marino

President

Argentes Consulting LLC

Carol Marino is the President, Argentes Consulting LLC, a strategic advisory firm focused on enabling the start-up phase of early stage companies, including the recruitment of company management and financing.

She was formerly the Managing Director for Syngenta Ventures, a corporate venture capital firm focused on agriculture, which she established in the U.S. in 2009. Carol managed the U.S. investment team in syndicating equity investments and managing a portfolio of innovative agriculture science companies in North America. As a corporate VC, Carol worked closely with Syngenta R&D and business units to ensure that the equity investments made by Syngenta Ventures were strategically aligned and integral to Syngenta's growth strategy. Carol served as a Director on the Boards of her portfolio companies.

Prior to joining Syngenta Ventures, Ms. Marino was Vice President of Venture Investments at Johnson & Johnson Development Corporation, where her focus was on equity investments in pharmaceutical and biotechnology companies at all stages of development. At JJDC she served as a Director on the Boards of several portfolio companies. Prior to joining J&J, Carol was the Vice President of Business Development for Clinical Development Capital LLC, an investment company which provided strategic investment capital to pharmaceutical companies for targeted clinical development.

Prior to Clinical Development Capital, Carol was a Vice President at Bristol-Myers Squibb Corporation. Throughout her tenure at BMS she held executive positions in Corporate Strategic Planning, M&A Business Development, e-Business Alliances, and Cardiovascular Marketing, in both the pharmaceutical and medical device segments. As Vice President of the Sanofi Pharma Alliance, Carol managed all aspects of the BMS/Sanofi Joint Venture, including leading the negotiations to establish the global Joint Venture Alliance. These negotiations included working between BMS and Sanofi management to set up the operational processes to execute the clinical development, regulatory filing, manufacturing, marketing, and selling of Plavix® and Avapro® in each country worldwide. Plavix® subsequently became the second largest selling drug of all time, with peak year sales of over \$9 billion.

Prior to joining BMS, Carol held various positions at Merck & Co., Inc., including Strategic Planning, Business Intelligence, Financial Business Analysis and Global Marketing, where she was responsible for bridging the worldwide market needs with R&D programs and priorities. At Merck, Carol had integral roles in the establishment of several Merck joint ventures, including J&J-Merck, DuPont-Merck, and Astra-Merck, as well as the Merck Vaccine Division.

Early in her career Carol held sales and marketing positions at Squibb Corporation and Winthrop Labs, a subsidiary of Sterling Drug. Carol has several publications in radiopharmaceutical chemistry from her tenure at the University of Connecticut, in the Department of Nuclear Medicine.

Carol holds a Master of Science degree in Organic Chemistry from the University of New Hampshire, and a B.S. in Chemistry from Merrimack College. She is currently a Board member of Clemson University Research Foundation, and is a Venture Partner of Red Badge Inc., a capital investment and business advisory company. Carol was recently appointed by the Governor of North Carolina, Gov. Pat McCrory, to her second two-year term to the Board of the North Carolina Biotechnology Center.



Casey Porto

Executive Director

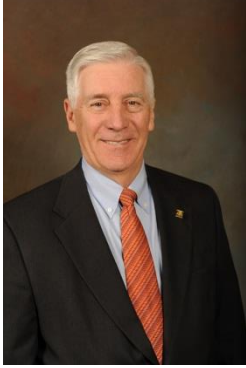
Clemson University Research Foundation

Casey Porto joined the Clemson University Research Foundation (CURF) as Executive Director in 2012. CURF is a 501(c)3 organized exclusively for the purpose of supporting Clemson University. CURF's primary mission is to maximize the societal impact of University research by transferring technology from the research laboratory to the marketplace.

From 2008-2012, Casey was Senior Vice President for Commercialization and Deployment at the National Renewable Energy Laboratory (NREL), managed for the U.S. Department of Energy by the Alliance for Sustainable Energy, LLC, a partnership of Midwest Research Institute and Battelle Memorial Institute. She led a \$50 Mil division responsible for moving new technologies into the marketplace, and achieving broad market adoption of existing energy efficiency and renewable energy solutions.

Prior to NREL, Casey was Director of Technology Transfer from 2005-2008 at the Oak Ridge National Laboratory (ORNL), a \$1 Bil U.S. Department of Energy laboratory managed and operated by UT-Battelle, LLC, a partnership of the University of Tennessee and Battelle Memorial Institute.

Casey began her technology transfer career in the University world, spending 6 years (1996-2002) in the Technology Transfer Office at Carnegie Mellon University, with the last two years as Director of the Office. Following Carnegie Mellon, she served at Case Western Reserve University (2002-2005) as Associate Vice President of Technology Transfer and Executive Director of Case Technology Ventures, a \$5 Mil pre-seed investment fund.



Joseph D. Swann

President, Retired
Rockwell Automation Power Systems

Joseph D. Swann grew up the son of educators in the small town of Clio, SC. In 1963, he earned his BS degree in ceramic engineering at Clemson University and in 1969 earned an MBA from Case Western Reserve University.

Upon graduation, Joe was employed as a development engineer for Ferro Corporation in Cleveland, OH and over time became division materials manager. In 1969, he accepted employment with Reliance Electric Company and had the opportunity to contribute with two stints in Cleveland, OH and one in Athens, GA. In 1974, he became plant manager of the Reliance Plant in Stone Mountain, GA, and in 1976 became plant manager of a new motor plant in Gainesville, GA. In 1981, Joe became vice president and general manager of the Dodge Business of Reliance Electric. In 1995, Reliance was acquired by Rockwell Automation and in 1998 he became president of Rockwell Automation Power Systems and senior vice president of Rockwell Automation. He retired from Rockwell in 2007 and spun-off a motor and generator repair business with the help of the Riverside Company, a private equity company headquartered in Cleveland, OH and New York City. The business was later called Integrated Power Services (IPS) where Joe served as non-executive chairman. IPS was sold in 2012. Since then he has given much of his time to assisting entrepreneurs in the Greenville community and continues to serve on numerous boards. He is currently co-chairing the Capital Campaign for the Ronald McDonald House.

Clemson University was very important in preparing Joe for his business and professional life and he has given back through service on the Mechanical Engineering Advisory Board, CURF Board of Directors, Clemson University Board of Visitors, and as an IPTAY representative. In 1990, he became a member of the Clemson University Board of Trustees and has served in that capacity ever since. In 1995, Joe received the Distinguished Service award from the Alumni Association and in 2013 he received the Clemson Medallion.

Joe is married to Barbara Ann "Bobbi" Porch who is a graduate of Ohio University. Bobbi and Joe have three children all of which are Clemson graduates; Erin '92, Audrey '95 and Ted '97. The Swann's have nine grandchildren.



Charles A. Tegen

***Associate Vice President for Finance
Clemson University***

EDUCATION

Southern Wesleyan University, Central, SC
Bachelors of Arts, Business Administration, 1974
Clemson University, Clemson, SC
Masters of Professional Accountancy, 1999

WORK EXPERIENCE

Clemson University, Clemson, SC
Associate Vice President for Finance and Comptroller, 1991 - to present
Director of Accounting – 1980 – 1991
Auditor II - 1979 to 1980
Greene, Lindley and Company, CPAs, Anderson, SC
Senior Auditor - 1974 to 1979

PROFESSIONAL LICENSE AND MEMBERSHIPS

Licensed Certified Public Accountant in South Carolina
American Institute of Certified Public Accountants (AICPA)
South Carolina Association of Certified Public Accountants (SCACPA)
Government Finance Officers Association (GFOA)
National Association of College and University Business Officers (NACUBO)
Southern Association of College and University Business Officers (SACUBO)

PROFESSIONAL ACCOMPLISHMENTS

- Currently serves on the Board of Directors for the National Association of College and University Business Officers (NACUBO), 2008-2014, Chair 2012-2013

The National Association of College and University Business Officers (NACUBO) represents more than 2,500 colleges, universities, and higher education service providers across the country and around the world. NACUBO represents chief business and financial officers and their institutions through advocacy efforts, community service, and professional development activities. The association's mission is to advance the economic viability and business practices of higher education institutions in fulfillment of their academic missions

- Served on the NACUBO Accounting Principles Council 1998-2003; Chair 2002

- Received the NACUBO Daniel D Robinson Award in 2004 – which recognizes excellence and leadership of an individual who demonstrates a continuous commitment to the advancement of college and university accounting and reporting.
- Serves as Treasurer for the Clemson University Research Foundation, 2010 – Present
- Appointed to serve on the Governmental Accounting Standards Advisory Council, 2012 -2014
- Past President and Board of Director member of the Southern Association of College and University Business Officers (SACUBO). SACUBO serves over 800 higher education member institutions from 14 states. It is one of the four regional associations serving higher education business officers through professional development and networking opportunities.
- Presented at over 50 national and regional conferences and workshops on higher education and governmental finance topics.
 - NACUBO – National Association of College and University Business Officers
 - SACUBO – Southern Association of College and University Business Officers
 - EACUBO - Eastern Association of College and University Business Officers
 - CACUBO – Central Association of College and University Business Officers
 - WACUBO – Western Association of College and University Business Officers
 - CCBO – Community College Business Officers
 - TIFCU - Tax Institute for Colleges and Universities
 - GFOA – Government Finance Officers Association
 - SACS - Southern Association of Colleges and Schools
- Served on two national level (Department of Education) federal technical review panels which examined and recommended higher education federal financial reporting practices.

OTHER ACTIVITIES

- Easley Central Water District, Commissioner, 1996 – 2011
- Southern Wesleyan University Alumni Association
Treasurer, 1991 – 1993
Alumni Council 2003 - 2006
- DW Daniel High School Athletic Booster Club, Treasurer, 1998 – 2001
- Southern Wesleyan University, Adjunct Professor, 1980 - 1991



Tracy S. Warren

Founder and Executive Director FedIMPACT, LLC

Tracy is Founder and Executive Director of FedIMPACT, LLC (www.fed-impact.com) which accelerates the creation, cultivation and commercialization of U.S. federal laboratory technology innovation by bridging the gap between industry, investors, technology commercialization teams, and researchers. Prior to founding FedIMPACT, Tracy was a general partner of Battelle Ventures and its affiliate fund, Innovation Valley Partners, for which she focused on investments in health & life sciences, as well as emerging energy technologies, with an emphasis on institutional-based transactions.

As an early stage investor, Tracy has worked closely with the technology transfer and economic development organizations in medical centers, universities and laboratories, including six of the U.S. Department of Energy National Laboratories, and the Health and Life Sciences division of Battelle Memorial Institute, which is the world's largest nonprofit research and development organization.

In 2008, Tracy co-founded NellOne Therapeutics, a spin-out of Oak Ridge National Laboratory developing a biologic for soft tissue regeneration, initially targeting the equine marketplace. Over the past decade, Tracy served as lead investor for several successful companies based on technologies licensed from national laboratories and leading universities. Due to her extensive experience, Tracy enjoys close relationships with senior laboratory officials, researchers and commercialization groups at several federal laboratories; and has a deep understanding of federal policy and technology transfer mechanisms and best practices.

Tracy has served as director in many early stage technology companies, including BioNano Genomics, MicroInterventional Devices, NuPathe (which was sold to Teva Pharmaceuticals for \$140 million) and SmartSynch (sold to Itron for \$100 million). In addition to CURF, her non-profit Board roles include that of the Children's Research Institute at Children's National Medical Center in Washington, DC.

Tracy has a BS from New York University and an MBA from Columbia Business School.



Michael L. Watt

Chairman and Chief Executive Officer Scientific Research Corporation

Mr. Watt is the Chairman and Chief Executive Officer of Scientific Research Corporation, a provider of electronic systems and engineering services to the public and private sectors in several countries around the world. Core competencies for the company include services and systems related to wireless communication equipment, information technology, intelligence systems and remote sensing technology. The company's client list includes numerous law enforcement organizations, military departments, civil agencies, and private corporations requiring customized solutions. Corporate programs encompass activities in North America, the United Kingdom, Europe, Africa and the Far East.

Mr. Watt has been with the company since its inception in 1988 and has held a number of positions in engineering, management, and finance. His responsibilities have ranged from directing corporate re-capitalization efforts to providing marketing oversight for SRC activities in the U.K. and Western Europe. His financial experience includes organizing and leading a leveraged buyout of external SRC investors in calendar year 2003.

Mr. Watt's management responsibilities entail providing technical oversight for SRC products and services in numerous areas of development. During his tenure at the company, he has directed the development of air traffic control, communications, air defense, electronic surveillance, and industrial control systems. Major research thrusts under his supervision have included the application of advanced signal processing systems and techniques to solve a broad spectrum of problems in areas such as satellite communications, terrestrial network management, radar systems and remote sensor development. In the past, these efforts have included adapting signal processing technology developed for NASA's deep space network to the challenge of tracking small objects in geosynchronous and non-geosynchronous orbit around the earth. Mr. Watt's recent activities have focused on the application of advanced coding techniques to provide greater reliability and noise immunity in wireless communication systems.

Prior to joining SRC, Mr. Watt served on the faculty of the Georgia Institute of Technology where he led research in communication and sensor technologies. As a member of the engineering staff of the Radar Instrumentation Laboratory, he participated in the development of experimental signal processing techniques that significantly increased the detection and target identification capability of U.S. weapon systems. In an effort to improve the current understanding of radar performance limitations, Mr. Watt conducted fundamental research aimed at quantifying the effects of non-linear noise on radar signal processing. In related efforts, he supported the design of adaptive signal processing techniques to be used in the development of smart munitions systems. In the field of optics, Mr. Watt led research in the design of optical signal processing systems capable of supporting high data rate transmission between non-geosynchronous satellites.

As an adjunct member of the Systems and Techniques Laboratory at Georgia Tech, Mr. Watt was responsible for the design of a 30 million dollar global information system used to transmit real-time weather information to mobile users. Under his leadership, a wide area network topology was specified to support distributed data collection and processing among several super-computing facilities. A comprehensive end-user distribution

network was also defined which utilized numerous wireless communication systems. While employed by the Systems Engineering Laboratory, he led the assessment of several electronic warfare systems. A portion of these activities included complex software development efforts focused on quantifying the vulnerability of airborne receivers to electromagnetic interference.

Mr. Watt began his career as an employee of the U.S. Department of the Navy where he supported first generation computer messaging systems. These early systems later evolved into the current Defense Messaging System (DMS) used aboard existing Navy ships.

Mr. Watt has served on the board of several academic and private sector institutions including the Advisory Board for the College of Engineering and Science at Clemson University, the Board of Directors for the British American Business Group, the Advisory Board for the Atlanta Chamber of Commerce, the Board of Directors for Collocation Technologies, LLC, the Board of Directors for Scientific Research Corporation and the Board of Directors for the Clemson University Foundation. He holds a Bachelor of Science in Computer Engineering from Clemson University and a Masters of Science in Electrical Engineering from the Georgia Institute of Technology. In 2008, Mr. Watt was inducted into the Academy of Engineers and Scientists at Clemson University.