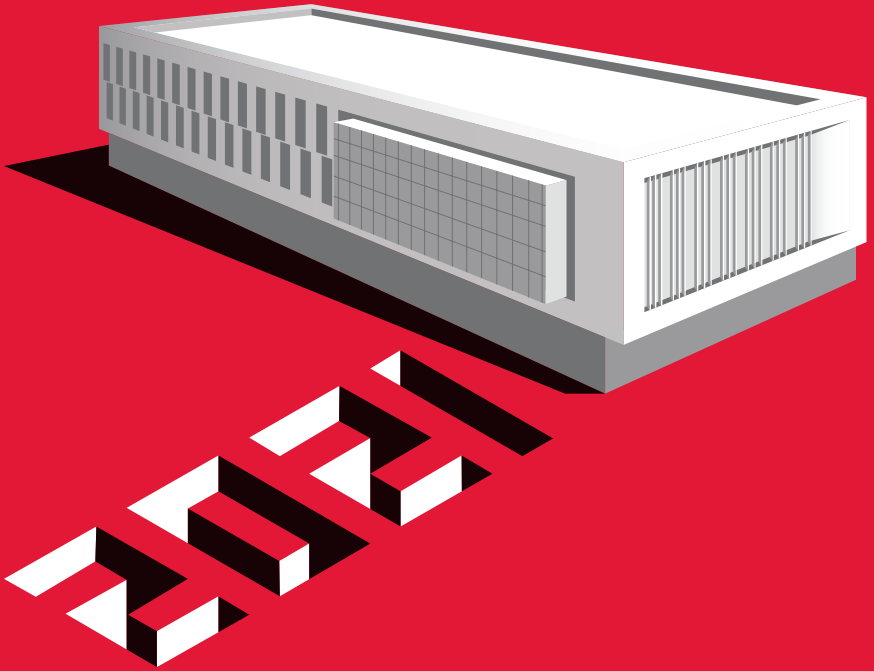


**NC STATE
ENGINEERING
FOUNDATION**



SPRING 2021

BOARD OF DIRECTORS
HANDBOOK

NC STATE ENGINEERING FOUNDATION, INC.

MISSION

To aid and promote, by financial assistance and otherwise, engineering education and research at NC State.

HISTORY

The Foundation was created in 1944 when Governor J. Melville Broughton brought together nearly 50 industrial and business leaders to form a nonprofit organization to promote and receive monies to support the NC State School of Engineering. The Foundation's earliest success was to recruit Dr. J. Harold Lampe of Johns Hopkins University to be the new Dean of Engineering, a choice that forever transformed the College.

FUNDING PRIORITIES

Dean Louis A. Martin-Vega has set an ambitious long-term goal: To become the top-ranked public college of engineering. Attracting and retaining the best and brightest people — faculty and students — is the primary catalyst to advance the core principles of our mission and achieve the Dean's vision. The College depends on private support to build and sustain a highly productive and renowned faculty and to extend opportunities to both undergraduate and graduate students. Building the College's endowment is vital to gaining a competitive advantage and to riding out the ebb and flow of other types of funding. The Foundation works with alumni, friends and corporations to build the number of named professorships, fellowships and scholarships across the College.

PROGRAMS AND OBJECTIVES

Advocacy Committee: The Advocacy Committee is responsible for ensuring the College's interests and priorities are known and supported internally and externally. The committee works to build relationships with the University's executive leadership team, the Board of Trustees and the North Carolina Legislature in close coordination with the Assistant to the Chancellor for External Affairs. The current top priority is to complete the College's move to Centennial Campus.

Pamela B. Townsend, *Chair*
Seneca Jacobs, *Vice Chair*
Steffanie Easter
Hannibal "Hans" G. Warren Jr.

Staff: Anna Knight
Ex Officio: Kevin Howell, *Vice Chancellor
for External Affairs, Partnerships
and Economic Development*

BOARD OF DIRECTORS

College and Alumni Engagement Committee: The College and Alumni Engagement Committee supports the work of the Foundation in respect to events, alumni communications and other activities designed to raise awareness of the Foundation and the way the Foundation supports the NC State College of Engineering. Support may include developing alumni engagement plans, mentoring the Young Alumni Advisory Board (YAAB) or similar organizations and their work with current students, and serving as a sounding board for College-wide alumni marketing initiatives.

Helene G. Lollis, *Chair*
Bruce R. Baldwin, *Vice Chair*
Michael Broaders
Calvin H. Carter Jr.
Michael W. Creed
Basil Hassan
Robert "Rob" S. Loftis Jr.

Leah Pursell,
student member
Sahaj J. Zalavadia,
student member
Staff: Hannah Kunkel
Ex Officio: Brent Lancaster,
Director of Communication

Development Committee: The Development Committee is responsible for the annual Director's Fund Drive and for assisting with the solicitation and closing of major endowment gifts from board members and other highly rated prospects. The committee will also assist the staff with evaluating and/or planning the College's various annual giving initiatives, including the Dean's Circle appeal, College of Engineering / NC State Annual Fund, etc., as well as College of Engineering event sponsorships and corporate relations.

David H. Whitley, *Chair*
Rashida Hodge, *Vice Chair*
Robert "Bob" L. Brooks
Heather Denny
David W. Dove

Sam McCachern
Deval "Dev" Parikh
Staff: Angela Martin
Michael Walsh

Finance Committee: The Finance Committee works closely with the Treasurer and staff to oversee the budget (presented at the spring meeting), investments and audit (presented at the fall meeting) of the Foundation.

Audit Committee: The Audit Committee is responsible for receiving and reviewing the report of the independent CPA firm that conducts the Foundation's annual audit (presented at the Fall Regular Annual Meeting of the Board) and relevant tax forms to be submitted by the Foundation.

Scott Stabler, *Chair*
Marion "Casey" Dean, *Vice Chair*
Wesley "Wes" B. Covell
Suzanne S. Gordon
Leonard "Len" H. Habas
Tiffany Chin Moore

V. Nelson Peeler Jr.
Carl Stutts
Mark Wyatt
Staff: Shawnda Hill
Ex Officio: Mary Peloquin-Dodd,
Treasurer

PROGRAMS AND OBJECTIVES

Nominations, Orientation and Recognition Committee (NORC):

The NORC is responsible for identifying, cultivating and recruiting new members to serve on the board. This will be done with careful attention to board demographics, diversity and needs. The committee will also design and implement the orientation program for new members and establish methods for quickly identifying the interests and talents of new members and getting them involved. Finally, the committee will coordinate the recognition program, including the Board Service Award and recognition of outgoing directors.

Alvin Sumter, *Chair*

Linda H. Butler, *Vice Chair*

Suzanne Beckstoffer

Dung Phu Chi Nguyen

Deborah B. Young

Vice President of the Board

Staff: Sara Seltzer

Strategic Planning Committee: The Strategic Planning Committee was formed in Fall 2012, responding to the need to address long-term challenges and opportunities for the Foundation. The committee looks at issues such as increasing the impact and effectiveness of fundraising efforts, in addition to integrating the Foundation's priorities with those of the College and University. The Strategic Planning Committee will be chaired by the President-Elect of the Foundation.

Deborah B. Young, *Chair*

David H. Whitley, *Vice Chair*

Suzanne S. Gordon

Leonard "Len" H. Habas

Rashida Hodge

Helene G. Lollis

Louis A. Martin-Vega

Deval "Dev" Parikh

V. Nelson Peeler Jr.

Scott Stabler

Alvin Sumter

Pamela B. Townsend

Staff: Lindsay Smith

Hannah Kunkel

Shawnda Hill

Griffin Lamb

Executive Committee: The Executive Committee is the governing body of the Foundation and is responsible for calling the meetings, setting agendas and obtaining background information for the business of the Foundation. Between meetings of the full Board, the Executive Committee may exercise most of the powers of the Foundation, with specific exceptions noted in the bylaws. The committee consists of the officers (President, Vice President, Secretary and Treasurer), the Immediate Past President and the chairs of each standing committee of the board. The President serves as Chair of the Executive Committee. The Secretary and Treasurer serve in an advisory capacity only and are non-voting members.

V. Nelson Peeler, Jr.,

President of the Board

Deborah B. Young,

Vice President of the Board

Suzanne S. Gordon

Helene G. Lollis

Louis A. Martin-Vega

Scott Stabler

Alvin Sumter

Pamela B. Townsend

David H. Whitley

Staff: Shawnda Hill

Griffin Lamb

Ex Officio: Mary Peloquin-Dodd

BOARD OF DIRECTORS

Personal Checklist — Goals for New and Reappointed Directors

Read and understand the NCSEF's mission and purposes, as well as the vision for the College of Engineering

- Read printed material about the NCSEF and College of Engineering.
- Have a clear understanding of strategic funding priorities and articulate their importance.
- Use PACK message map “elevator speech” to engage prospects and decision-makers.

Participate in the NCSEF's programs as an active and engaged volunteer

- Regularly attend board and committee meetings, except for compelling personal or business reasons. If unable to attend, notify the chairperson.
- Actively participate in meetings through observing, asking questions, providing advice, initiating ideas, networking and helping to inspire fellow directors.
- Attend Foundation and College programs (e.g. Endowment Dinner, student recruiting events, Meet the Dean events, Engineers' Council Banquet, etc.).

Help ensure adequate resources for our Foundation

- Identify prospective individual and corporate donors.
- Work with staff to make cultivation or solicitation calls to “Top 100.”
- Invite or host prospective donors on a visit to campus.
- Assist on a College of Engineering visit to a selected city by hosting a luncheon or event for the Dean with area alumni or business leaders.
- Make “stretching” annual fund contribution to the Director's Fund.
- Consider an endowment pledge / make a payment on a pledge that has been made.
- Suggest name(s) of promising candidates for service on the Board.

BY THE NUMBERS

ACADEMIC PROGRAMS / STUDENTS

- 18 bachelor's, 21 master's, 13 doctoral degree programs
- 4th in percentage of B.S. degrees awarded to women among top public colleges of engineering, featured in a *Washington Post* analysis
- 12th among public engineering schools in *U.S. News & World Report* graduate rankings
- 80 percent of incoming freshmen in top 10 percent of their high school graduating class
- The Engineering Career Fair at NC State is one of the largest events of its kind in the nation

RESEARCH

- One of only two institutions to lead two National Science Foundation Engineering Research Centers at once
- More than \$206 million in research expenditures in 2019-2020

FACILITIES

- The College is moving all of its facilities to the state-of-the-art Centennial Campus. Fitts-Woolard Hall opened in the summer of 2020, and a fifth engineering academic building is planned.

FACULTY AND STAFF

- 19 members of the National Academy of Engineering
- 3 members of the National Inventors Hall of Fame
- 3 National Medals of Technology and Innovation; 1 Emmy Award for plasma display technology; 1 U.S. Army Commander's Award for life-saving military technology; 3 Presidential Early Career Awards for Scientists and Engineers; 5 Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring
- 52 NSF Career Awards since 2010

ALUMNI

- 64,252 total living alumni
- 55 percent live in North Carolina
- Top 5 alumni metro areas outside NC: Washington, D.C.; Atlanta, Ga.; Bay Area, Calif.; Greenville / Spartanburg, SC; Houston, TX

SUPPORT

- Total assets exceed \$181 million
- 59 endowed professorships
- 52 graduate student support endowments
- 377 endowed scholarships
- 117 other endowment funds
- 182 documented planned gifts

NC State Engineering Foundation “PACK” Message Map

Preparing workforce-ready students

- Flagship engineering school in NC
- One of the largest engineering schools in the U.S. — more than 10,000 students
- We help NC attract and retain high-paying jobs:
 - WSJ Poll ranked NC State Engineering 15th in workforce preparedness of grads
 - IBM and Cisco hire more from NC State than anywhere else
 - Magnet for biotech, gaming, aerospace, finance

Our goal:
To be the best public college of engineering in the U.S.

Accelerating job creation

- Faculty and student research spawned 19 startups in the past five years
- Engineering Entrepreneurs Program helps students take high-tech product ideas to market
- Engineering alumni lead 10 of NC's 100 largest private companies
- LED giant CREE was started by engineering grad students who converted research breakthroughs to product line

Conducting world-changing research

- Faculty and students attack big problems
- One of only two Colleges of Engineering in the nation leading two NSF Engineering Research Centers
 - FREEDM Systems Center will transform the power grid into the energy internet
 - The ASSIST Center will transform health care and health data collection
- 438 invention disclosures, 124 patents issued in the last five years
- Research expenditures were \$200 million last year

Keep us moving forward: We need your help to open opportunities for the best students and faculty.
Let's discuss opportunities for you to become engaged!

NC State Engineering Foundation, Inc.

ABOUT OUR BOARD OF DIRECTORS



Bruce R. Baldwin
BSME '92

**College and Alumni
Engagement Committee,
Vice Chair**

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bruce.baldwin@hp.com

Bruce Baldwin is an Information Systems and Cloud Architect with HP Inc. Baldwin has over 25 years of experience in the public and private sectors in design, development, integration and implementation of Information Management (IM) systems.

Baldwin began his career in the nuclear services industry supporting the application process for the Generic License Plant Renewal program. He moved from nuclear services to Information Technology (IT), initially focusing on private industry then moving to federal government clients. In his 21 years of federal government support, through IT delivery, Baldwin has supported numerous agencies including the Department of State, Defense Health Agency, Department of the Treasury, Office of Foreign Assets Control, Department of Homeland Security, Food and Drug Administration and White House / Executive Office of the President.

Baldwin holds a B.S. in mechanical engineering from NC State University and an MBA from The Johns Hopkins University. He is a member of ASME, certified Project Management Professional, and certified Cloud Architect. He has remained very engaged with NC State over the years. He is currently a lifetime member of the Alumni Association, member of the Advisory Board for the Department of Mechanical and Aerospace Engineering and listed on the Department's Hall of Fame, annual member of the Dean's Circle, and has endowed a scholarship in the College of Engineering. Outside of work, Baldwin serves as the Committee Chair for his son's BSA Scout Troop 472.



Suzanne Beckstoffer

BSCE '82

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Nominations, Orientation and Recognition Committee

Suzanne Beckstoffer is an advocate for engineering education and financial literacy. She is chairman of the board of BayPort Credit Union, a \$1.7B financial institution with 140,000 members, headquartered in Newport News, VA. She is also president of the Society of Naval Architects and Marine Engineers (SNAME), an international professional organization for the maritime and offshore communities with 6,000 members worldwide. She retired in 2016 as an engineering director at Newport News Shipbuilding, after a career of more than 30 years in shipbuilding. During her tenure at NNS, she led the migration of the new FORD class aircraft carrier 3D product model to a new Product Lifecycle Management toolset; directed the company's Research & Development program; managed the installation of the Automated Steel Facility robotic cutting and welding lines for steel fabrication; and performed engineering and design activities for aircraft carriers, submarines and commercial vessels. The Peninsula Engineers Council elected her Engineer of the Year 2015.

Beckstoffer holds a B.S. in civil engineering from NC State University and an MBA from the College of William and Mary. She serves on boards at NC State University, Christopher Newport University and the ABET Industry Advisory Council. She is a past president and Paul Harris Fellow of the Warwick Rotary Club. Beckstoffer and her husband, Hank, have endowed a scholarship in the College of Engineering, and she has arranged several visits for Dean Martin-Vega and others in the Tidewater area.



Michael Broaders

College and Alumni Engagement Committee

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Michael Broaders is the vice president of distribution and logistics for Campbell Soup Company - Snack Division.

Prior to this role, he held the position of chief operating officer for Accent Food Services, based in Austin, TX, where he was responsible for all operations, supply chain systems, continuous improvement and acquisition integration across the organization.

He also worked for The Coca Cola Company and served 18 years in numerous leadership roles with increased responsibility within the North America Supply Chain organization. He had eight years of prior beverage operational experience with PepsiCo. Broaders received an M.A. in general management from Antioch University and holds a B.S. from Purdue University.

Broaders and his wife, April, reside in Atlanta, GA, with their dog Barkley. They have one daughter, Kristina, who is completing her fourth year of a medical / Ph.D. program at the University of Alabama Birmingham.



Robert "Bob" L. Brooks
BSEO '69

Development Committee

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Bob L. Brooks has worked his entire business career in the power industry for 42 years. For 24 years he worked with Westinghouse Electric in the Power Generation Division. It was here that he held various engineering and management positions of increasing responsibility in operations, project management, marketing / sales and strategic planning. Brooks left Westinghouse in 1993 to join a start-up independent power company — LS Power. As part of the original management team, he was involved in all facets of the development, financing, building, ownership and operations of independent power projects throughout the U.S. In addition to specializing in natural gas, coal and solar power generation facilities, the company expanded its role into the development / ownership of high voltage electric transmission projects. Through its various private equity funds, LS Power Equity Advisors has expanded its role in energy related entities via its M&A investments.

Brooks retired from day-to-day management of the company in 2013. He is currently a member of the Board of Directors of Entegra Power Group. In addition to several athletic and academic endowments to NC State, his philanthropic interests involve several other areas, including: ZOE Ministry Partnership providing resources for orphans in Africa to become self-reliant through a two to three year support program; Africa University (Zimbabwe) — involved in providing financial aid to deserving orphans interested in a college education; Florida United Methodist Children's Home; and United Methodist Outreach Ministries. He's currently a part of the professional Societies ASME and IIE and received his MBA from Winthrop University.



Linda H. Butler
BSNE '86

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**Nominations, Orientation
and Recognition Committee,
Vice Chair**

Dr. Linda H. Butler is the vice president of medical affairs and chief medical officer at UNC REX Healthcare in Raleigh. Butler became the first chief medical officer for UNC REX in 2009 and is currently responsible for quality and performance improvement, infection prevention, risk management, research and medical staff affairs.

She also served as the chief medical information officer during their Epic electronic medical record implementation in 2014. Prior to her employment in the UNC Healthcare System, Butler was a managing partner with Capitol Pediatric Adolescent Center in Raleigh for over 13 years. During that time, she served on multiple hospital committees, became the chair of pediatrics at Duke Raleigh and later Rex, and was elected president of the medical staff at Rex.

Butler earned her B.S. in nuclear engineering from NC State, M.S. in nuclear engineering from the University of Florida, and attended medical school at UNC-Chapel Hill and completed her pediatric residency there as well. She was a member of the John Rex Endowment for eight years and served the final two years as the chairman. The Endowment has distributed over \$40 million in grant funding over the past decade to organizations that serve vulnerable youth in Wake County. She also serves on the Johnston Health Board and is a member of its quality committee. Butler served as a board member for Big Brothers, Big Sisters in the past.



Calvin H. Carter Jr.
**BSMSE '77, MSMSE '80,
PhDMSE '83**

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**College and Alumni
Engagement Committee**

Prior to his semi-retirement in December 2009, Dr. Calvin Carter served as director of materials technology of Cree, Inc. In that role he directed R&D on SiC bulk growth, wafer shaping, polishing and SiC epitaxy as well as overseeing materials research contracts at Cree. Carter has nearly 30 years of SiC research and development experience with his primary area of expertise lying in SiC crystal growth.

He is a co-founder of Cree and served on the Board of Directors and as executive vice president from July 1987 until November 2000. Carter has co-authored over 80 publications and is co-inventor on 22 U.S. and 104 foreign patents. President George W. Bush awarded Carter the 2002 National Medal of Technology for his pioneering work in the development of silicon carbide semiconductor materials.



**Wesley "Wes"
B. Covell**
BSEE '84

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**Finance Committee /
Audit Committee**

Wes Covell retired in September 2017 from Harris Corporation as the vice president of Middle East Business Development, Abu Dhabi, United Arab Emirates. Additionally, he served as managing director of Harris Atlas Systems, LLC, a joint venture between Harris Corporation and Atlas Telecom, a UAE-based technology leader. During his 27-year career with Harris, Covell held numerous roles, including corporate vice president of strategy and chief growth officer, president of the Defense Programs business and division vice president of engineering. Before joining Harris in 1990, Covell was a systems engineer with The Johns Hopkins University Applied Physics Laboratory, working on communications systems for the U.S. Navy and Army.

Covell received a B.S. in electrical engineering from NC State in 1984 and an M.S. in electrical engineering from The Johns Hopkins University in 1989. He is also a graduate of the Mahler Advanced Management Skills Program. Covell delivered the commencement address during the Department of Electrical and Computer Engineering's graduation in May 2007, and in 2015, was selected as a member of the inaugural class of the NC State Department of Electrical and Computer Engineering Hall of Fame. Covell and his wife, Sherry, recently endowed a scholarship in the NC State College of Engineering for women and minorities in engineering.

The Covells split their time between Indian Harbour Beach, Florida, and Incline Village, Nevada, and have one son, Benjamin Covell, MD. They are active in the community, and are members of the United Way Tocqueville Society.



Michael W. Creed
BSCE '73, MSCE '84

**College and Alumni
Engagement Committee**

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mcreed@mckimcreed.com

Dr. Michael W. Creed earned a B.S. in civil engineering in 1973 and his M.S. in engineering in 1984 from NC State. He completed the Executive Program at UNC-Chapel Hill's Kenan-Flagler School of Business in 1989 and he earned a Ph.D. from UNC-Chapel Hill's Department of City and Regional Planning in 2010. Creed is a co-founder of McKim & Creed, an engineering,

planning and surveying firm.

He is a Fellow in the Professional Engineers of North Carolina, a Life Member of the American Society of Civil Engineers, a Charter Member of the Structural Engineering Institute, and he was an IAB member and Organizing Chairman for the Education Working Group of the FREEDM Center at NC State. He was awarded the Leonardo da Vinci Award from the Professional Services Management Association in 2006.

Creed and his company have provided vital financial support for NC State and the Department of Civil, Construction, and Environmental Engineering (CCEE), including funds to provide internship opportunities for NC State students at McKim & Creed. He was one of the original members of the CCEE advisory board and served three years as chair of the department's Zia Distinguished Lecture Series. He has served as a guest lecturer in CCEE and has given time volunteering with student organizations. In 2015, Creed was awarded the prestigious Distinguished Engineering Alumnus Award.



Marion "Casey" Dean
BSEE '67

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**Finance Committee /
Audit Committee,
Vice Chair**

Casey Dean is the chairman of the board of M.C. Dean, Inc., the nation's premier electrical design-build and systems integration firm for complex, mission-critical organization, that was established in 1949. Dean served as president and majority stockholder from 1978-2000, succeeding his father, Marion Caleb "M.C." Dean. Prior to becoming president, Dean was the vice president from 1967-78. Having started with M.C. Dean, Inc. in the late 1950s, he became the primary force behind the development of the firm after assuming a leadership role. His background in the renovation of facility electrical, communication and electronic systems is unmatched regionally and most likely nationally.

Dean is a member of the National Society of Professional Engineers, the Associated Builders and Contractors Association, the Northern Virginia Electrical Contractors Association (president, 1981), and the Virginia Department of Labor (electrical apprenticeship instructor, 1971-78). He presently resides in Sarasota, FL with his wife, Deborah, who is a retired teacher. They also retain their home in Sneads Ferry, NC. They have three sons, and their oldest, Bill Dean, is also an NC State alumnus of electrical engineering, president of M.C. Dean, Inc. and former NC State Engineering Foundation director.



Heather Denny BSCE '95

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Development Committee

Heather Denny is chief operating officer at Wells Global, LLC, a full-service design/ build company specializing in critical power system design and installation, with specific emphasis on emergency standby power systems with engine generators, uninterruptible power supply (UPS) equipment, lightning protection and grounding systems.

Denny provides the leadership, management and vision necessary to ensure that the company has the proper operational controls, administrative procedures and people systems in place to effectively support the growth of the organization and to ensure financial strength and operating efficiency. Prior to Wells Global she was CEO of McDonald York Building Company.

One of Denny's key focuses has been serving the community and helping others. She is actively involved in many local and state professional and nonprofit organizations, and has served in leadership roles in the majority of these groups. Denny chooses organizations that are both professionally and personally meaningful to her, along with organizations that allow her to make a significant impact within the community. Currently, her activity includes board positions for McKim & Creed, John Rex Endowment, NC State Engineering Foundation Board and Union Bank Board of Advisors. She previously served on the NC State Department of Civil, Construction, and Environmental Engineering (CCEE) advisory board. Denny has also served as president for several professional organizations, such as Triangle Commercial Real Estate Women (TCREW), the International Society for Pharmaceutical Engineering (ISPE) and the International Facility Management Association (IFMA). Denny has received numerous awards, including Top 50 Business Leaders to Watch by the *Triangle Business Journal*, *Engineering News Record 20 Under 40*, *Triangle Business Journal's 40 Under 40*, *CREW Network 20 Under 40*, *Triangle Business Journal's Women in Business* and *Business Leader Magazine's Women Extraordinaire*. Denny graduated from NC State University in 1995 with a B.S. in civil engineering, construction option.



David W. Dove BSAE '69

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Development Committee

David Dove has more than 25 years of experience in the payments, retail financial services and fintech fields. Currently, he is CEO at Payment Alliance International, the largest privately-owned ATM portfolio management company in North America. Previously, he was managing general partner at Dove Capital Partners, a consulting and venture firm focused on financial

services, and before that president of the North American Business Group at Cardtronics, Inc. (NASDAQ CATM). For more than 20 years, he ran the Dove Consulting Group where he served as CEO, growing the business organically and through acquisition with offices spanning the U.S. and Europe. In addition to his B.S. degree in aeronautical engineering from NC State, he holds an M.S. from MIT in aeronautics and astronautics and an MBA from the Boston University School of Management.



Steffanie Easter

BSCHE '85

Advocacy Committee

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Steffanie Easter is vice president, strategy and planning for the defense and civilian sector at Science Applications International Corp (SAIC). Easter joined SAIC in 2020. Before joining, she served as the director, Navy staff for the U.S. Navy becoming the first civilian to hold the position. In this role she served as the senior civilian and coordinated enterprise level efforts across the Navy staff, ensuring alignment of more than 400 flag officers and

senior executives in direct support of the chief of naval operations.

Throughout her career, she served in a number of high impact positions in the Department of Defense including acting assistant secretary of the army for acquisition, logistics and technology; F-35 joint program office executive director; assistant deputy chief of naval operations for manpower, personnel, training and education; assistant deputy commander for acquisition at naval air systems command; and deputy program executive officer for tactical aircraft programs.

Easter has been recognized with multiple awards including the Presidential Rank Award; the Secretary of the Navy Distinguished Civilian Service Award; the Army Exceptional Civilian Service Award; and the Secretary of Defense Meritorious Civilian Service Award. She is also the recipient of the 2010 Black Engineer of the Year Award for Professional Achievement and the 2009 National Women of Color Award for Managerial Leadership.

In 2020 Easter joined the board of directors for Fincantieri Marinette Marine. She also serves on the board of directors for the Military Bowl Foundation, a nonprofit that supports our nation's current and former service members, and she serves as a member of the NC State Engineering Foundation Board of Directors.

Easter earned her bachelor's degree in chemical engineering from North Carolina State University, and her master's of engineering degree from The Catholic University of America. She received the 2019 Distinguished Alumni Award from both universities.



Suzanne S. Gordon
BSCS / MA '75, MSST '80

Immediate Past President,
NCSEF Board of Directors

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Executive Committee

Finance Committee / Audit Committee

Strategic Planning Committee

Suzanne S. Gordon retired from SAS Institute in Cary, NC, as chief information officer (CIO) in June 2012; she worked at SAS for 32 years and was CIO for 10 years. Gordon is now focusing on her role in nonprofits. She is a past chair and longtime board member and volunteer tutor / mentor for Communities in Schools (CIS) of Wake County. Through her work with CIS students, she saw the need for students to have job opportunities and experience. While still at SAS she established SAS Possibilities, a program that offers summer internships to CIS students. She also started a nonprofit called Gordon Services, which provides young adults with part-time jobs, job hunting advice, resume services and whatever else they need to join the workforce.

Gordon is vice chair of the University Development Coalition (UDC) and on the Executive Advisory Board of the Institute for Advanced Analytics; she is also an executive in residence. She has previously served on the University's Board of Trustees, the Poole College of Management Board of Advisors and the Alumni Association Board of Directors. Gordon enjoys speaking to women's groups and young people about the importance of STEM in education and building a trusting atmosphere as a leader.



Leonard "Len" H. Habas
BSEE '66

Finance Committee /
Audit Committee

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Strategic Planning Committee

Len H. Habas is former chairman, CEO and principal of Advance Publishers, which develops and markets children's book series and related promotional programs. Advance Publishers has sold more than \$200 million in children's books and related products since 1995 under such well-known brands as Disney, Nickelodeon and Sesame Street. His successful career in the publishing industry spanned more than 28 years.

Habas serves on the Nemours Foundation Florida Board of Managers. He also served in the Air Force at the rank of Captain. Habas has hosted two Meet the Dean events for alumni in the Orlando area. He received a M.S. in engineering and management from Northeastern University. Additionally, he previously served as president of the NCSEF Board.



Basil Hassan
BSAE '88, MSAE '90,
PhDAE '93

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**College and Alumni
Engagement Committee**

Dr. Basil Hassan is a native of Raleigh, North Carolina. He earned his bachelor's degree in 1988, his master's degree in 1990, and his doctorate in aerospace engineering from North Carolina State University in 1993. He is currently the director and deputy chief research officer at Sandia National Laboratories. In this role, Hassan leads Sandia's research strategy development including the execution of the Laboratory Directed Research and Development program and oversees Sandia's external partnership and technology transfer programs. Hassan has been employed at Sandia since 1993 and has managed all phases of research, development and applications work. He has focused predominantly on the thermal, fluid and aero science technology areas helping Sandia to accomplish its national security mission.

Hassan has served in a variety of positions in research and development (R&D) in the areas of aerodynamics and aerothermodynamics of high-speed flight vehicles, drag reduction for low-speed ground transportation vehicles and high-velocity oxygen fuel thermal sprays. He has overseen all aspects of engineering sciences R&D and applications work at Sandia. Most notably, he helped support the National Aeronautics and Space Administration (NASA) in determining the cause of the Space Shuttle Columbia accident in 2003 and was part of the team that shut down the Deepwater Horizon oil well after the explosion and spill in 2010.

Hassan is a Fellow of the American Institute of Aeronautics and Astronautics (AIAA) and serves as the institute president (2020-22). Previously, he served on AIAA's board as director and vice president from 2008-17, and president-elect from 2019-20. He has also served on several national review boards for the National Academies, NASA, DARPA and Air Force Office of Scientific Research. Since 2004, he has participated as an external member of the NASA Engineering and Safety Center. Hassan currently serves on NC State's Mechanical and Aerospace Engineering Educational Advisory Board and has served on similar boards for New Mexico State University, Texas A&M University, the University of Texas at Austin, the University of New Mexico and the Georgia Institute of Technology. He was the 2008 recipient of the AIAA Sustained Service Award and a 2017 recipient of NC State's Distinguished Engineering Alumnus Award.



Rashida Hodge
BSISE '02, MEISE '03

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Development Committee,
Vice Chair

Strategic Planning Committee

Rashida Hodge is a technologist and executive leader at the forefront of AI and emerging technologies that are changing how businesses operate. Her differentiated leadership approach is grounded in her ability to connect deeply with teams and clients, and inspire innovation and new ways of thinking.

Dubbed the “Superhero of IBM Watson AI,” Hodge led the commercialization and global launch of IBM Watson, where she influenced the development and scale of IBM’s most significant technologies and rose to be the highest-ranking African American woman executive. Most notably, she led the implementation of IBM’s first major Watson AI engagements and delivered first-of-a-kind projects with prominent clients. Her collaborative approach cemented IBM’s global thought leadership in AI. Her affinity with client needs and challenges influenced the product direction and evolution of the IBM Watson platform that exists today.

Currently Hodge leads the Data and AI Customer Success Worldwide Commercial Business at Microsoft accelerating data-driven digital transformation for customers through a differentiated and connected customer experience.

Originally from St. Thomas, U.S. Virgin Islands, her Caribbean upbringing gave her respect for strong communities, mentorship and the power of diversity. Knowing “we all stand on the shoulders of giants,” she is firmly committed to developing next-generation leaders and creating opportunities for women and minorities in engineering.

Hodge earned a B.S. and M.S. in industrial engineering at NC State University and an MBA from Duke University Fuqua School of Business. She was named to Fortune 40 Under 40 in technology in 2020.



Seneca Jacobs
BSCE '99

Advocacy Committee,
Vice Chair

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Seneca Jacobs is a principal engineer at Locklear, Locklear & Jacobs, a consulting engineering and project management company. Founded in 2003, the company provides a very diverse and broad spectrum of cost-effective and practical engineering services to its public and private sector clients.

Jacobs, a Pembroke, NC native, is a licensed attorney in Tennessee, a licensed professional engineer in multiple jurisdictions, licensed land surveyor in training in Arkansas and a licensed real estate broker in North Carolina. He holds a B.S. in civil engineering and economics from NC State University and a juris doctorate from the University of Arkansas-Little Rock.



**Robert "Rob"
S. Loftis, Jr.**
BSEE '02

**College and Alumni
Engagement Committee**

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Rob Loftis is a senior vice president in the Private Wealth Management division at Morgan Stanley. He advises ultra-high net worth clients and related entities on asset management strategies including investment management, tactical asset allocation and risk management. Loftis creates customized plans for entrepreneurs, corporate executives, professional athletes, family businesses and related institutions.

Loftis joined Morgan Stanley Private Wealth Management in August 2012. Prior to Morgan Stanley Private Wealth Management, Loftis worked for Barclays Wealth, Goldman Sachs and General Electric. He received an MBA in Finance and Investment Management from the University of North Carolina's Kenan-Flagler Business School, where he was honored with admission into the Beta Gamma Sigma Honor Society. He graduated summa cum laude while being honored with admission into Tau Beta Pi, Eta Kappa Nu and Golden Key National Honor Societies from NC State. He is also a member of the Sigma Phi Epsilon Fraternity. He currently lives in Atlanta, GA, with his wife Andria, their daughter Lia, and dog Emma.



Helene G. Lollis
BSCHE '87

**College and Alumni
Engagement Committee, Chair**

Executive Committee

Strategic Planning Committee

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Helene G. Lollis is the chief executive officer of PATHBUILDERS, an organization focused on moving women forward and increasing gender diversity in leadership. For 25 years, Pathbuilders has focused on advancing top-tier talent through high-impact mentoring, professional development and consulting with senior executives to create cultures where women thrive. Lollis guides strategic direction and program development, consults with key clients and represents Pathbuilders in the community. Trained as an engineer, Lollis spent 12 years with Amoco and BP Corporations in plastics process design, product development, marketing, strategic planning and company mergers and acquisitions.

Lollis is frequently invited to speak on the topics of mentoring, women in the workplace and career planning. She has been published in *HR Magazine* and *Diversity Executive and Talent Management*, and has been featured in *The Wall Street Journal*. Extremely active in the community, Lollis is a past chair and on the executive board of Junior Achievement of Georgia and is a trustee of the Woodruff Arts Center, where she is a chair of its Women's Giving Circle. She serves on the boards of the NC State Engineering Foundation, the Rotary Club of Atlanta and SHRM-Atlanta, and has previous board service with the Metro Atlanta Chamber and Leadership Atlanta. She is also a member of the International Women's Forum.

Lollis was proud to be recognized as one of Atlanta's Most Admired CEOs by the *Atlanta Business Chronicle* in 2020. She received the Gold Leadership Award from the Junior Achievement USA Board of Directors for her service to JA. She was inducted into the YWCA Academy of Women Achievers, and she was recognized as the Guiding Star by Emory's Executive Women of Goizueta. Lollis served as a subject matter expert at *The Wall Street Journal's* Executive Task Force on Women in the Economy. She received her bachelor's and master's degrees in chemical engineering from NC State and Purdue universities.



Sam McCachern **BSCE '85**

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Development Committee

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Sam McCachern began his career with Thomas & Hutton in 1985 upon graduating from NC State University with a B.S. in civil engineering. He served in most engineering and management capacities at the firm. His engineering roles, with increasing responsibility, included design engineer for projects on Daufuskie Island, project manager for Sun City Hilton Head and client manager for Crescent Resources and the Branigar Organization.

McCachern's management roles include various corporate positions, including his current role as president and CEO, and as a member of the Board of Directors. McCachern is responsible for the company's strategic plan, which has led to the company's expansion in South Carolina to Columbia and Greenville. The firm maintains a high level of state-of-the-art technology for production, communication and innovation. As a learning organization, Thomas & Hutton invests in extensive training for its employees. McCachern is not only a leader for Thomas & Hutton but also a good steward to the community. His dedication shines through countless examples of service in organizations such as Isle of Hope United Methodist Church, Rotary Club of Savannah, United Way of the Coastal Empire (past), Savannah Technical Institute Foundation, NC State CCEE Advisory Board (past), Georgia Southern CEIT Corporate Advisory Board and the Savannah Area Chamber of Commerce.

McCachern has one son. He has hosted Dean Martin-Vega for two alumni events and looks forward to building upon his relationship with the College of Engineering.



Tiffany Chin Moore **BSISE '01**

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Finance Committee / Audit Committee

Tiffany Chin Moore is a Maryland native. She is the director of quality and continuous improvement for Cognex Corporation based in Natick, Massachusetts, and the founder and CEO of Moore Of You, LLC.

Driven by Operational Excellence, Moore has a record of achievement in bottom-line impact. Leading with tenacity, her over 20-year career in operations across Fortune 500 multinational firms has provided a platform for demonstrated success.

Moore built the foundation of her career in industrial engineering with a 10-year tenure at Eaton Corporation and has since led several global teams while steering large change management initiatives. Her career spans across North Carolina, South Carolina, Wisconsin and most recently, Massachusetts. Her global teams include China and Ireland.

For Moore Of You, LLC, Moore leverages her experience to provide practical teaching and advice that helps her clients combine their personal and professional experiences to bring "Moore of You" to the workplace. Moore of You provides solutions for technical professionals in corporate America.



Dung Phu Chi Nguyen **BSAE '92**

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Nominations, Orientation and Recognition Committee

Dr. Chi Nguyen is a managing partner and principal scientist at Aerospace Innovations, LLC. Prior to joining AI, Nguyen was the director at the Center for Aerospace Technology at RTI International. He has more than 27 years of industry experience in aerospace and systems engineering. He began his aerospace career designing unmanned aerospace systems and distributed functional subsystems for space exploration. He has made significant contributions throughout his career to the National Aeronautics and Space Administration's Aviation Safety Program, space exploration and sensors research. He has provided expertise on selected NASA Engineering Safety Center teams for independent assessment of the Space Shuttle, International Space Station and Constellation Programs.

He has published numerous technical reports, authoring and co-authoring papers on wake vortex Lidar, sensor systems and space exploration concepts. He has served on the National Science Foundation and National Academies of Science Committee for the Independent Assessment of the Nation's Wake Turbulence Research and Development Program. He was inducted into the inaugural class of NC State's Mechanical and Aerospace Department Hall of Fame in 2013.

Nguyen is currently lecturing as an associate professor with the George Washington University School of Engineering and Applied Science and as an adjunct professor with Florida Institute of Technology. He currently serves on the NC State College of Engineering Foundation Board of Directors and on the NC State Mechanical and Aerospace Department External Advisory Board. Nguyen received a B.S. in aerospace engineering from NC State in 1992, M.S. in information systems in 2002 and doctorate in engineering management in 2006, both from George Washington University. He and his wife, Julie (B.S. in middle school education, NC State '92), live in Suffolk, Virginia, and have four children. Nguyen is an active participant in his church and community, chairing and serving in various board capacities, coaching and mentoring student athletes, and serving the Cub and Boy Scouts of America as scout leader and committee member.



Deval “Dev” Parikh **BSCHE '94, BSEC '95**

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Development Committee

Strategic Planning Committee

Dev Parikh is a successful transformation and non-linear business leader with over 20 years of experience in high-growth technology sectors with global and emerging markets experience. His experience spans management consulting, venture capital, telecom and semiconductor industries.

Currently, Parikh serves on the boards of several technology companies and start-ups in ecommerce, software development and electric vehicle space.

His most recent full-time role has responsibilities of the president of international business and chief product officer at NTENT, a U.S.-based artificial intelligence-driven search provider selling to global telcos, media and large e-commerce businesses. He now serves as an advisor to the firm.

Previously, Parikh served as the CEO of Brightstar (Softbank subsidiary) India, a \$700M+ diversified wireless and telecom distribution and services company globally as well as in India spanning mobile, enterprise and network businesses.

Prior to Brightstar, Parikh spent a few years at the world's fastest growing telecom operator, Reliance Jio, which grew from zero to over 300M subscribers in three years using the latest 4G technology. Amongst various roles, Parikh was the senior vice president leading product design and development, where the products lead to a 40x increase in mobile data consumption. He also served as the executive CEO of Gujarat region leading the deployment of over \$3B in Capex.

In Parikh's nine-year career with Virgin Mobile, he was one of the founding members of Virgin Mobile India as chief product officer. He successfully set up the India operations where he launched several path-breaking propositions. At Virgin Mobile USA, where his roles included vice president of mobile devices and vice president of planning and operations, he managed a \$500M/year mobile device business. He was part of the team that helped the business grow from pre-revenue to over \$1.4 billion in revenues leading to a successful IPO.

Parikh also had management consulting roles at PRTM consulting (now PWC) focusing on telecom and technology areas, and spent his formative years as a manufacturing process engineer at VLSI technology (now NXP) looking after semiconductor process technologies for the manufacture of ASIC's in Silicon Valley.

Parikh holds a master's in engineering management from Northwestern University and an MBA from the Kellogg School of Management. He has a B.S. in chemical engineering and a B.S. in economics, both with honors from NC State University. His work has been published in global periodicals including the *Harvard Business Review*.

Parikh is originally from India and would love the opportunity to be the voice of international students as they spend two to four years on campus. He now teaches sessions on product management in emerging markets and has a passion to help students and young professionals find their passion in life.



V. Nelson Peeler Jr.
BSEE '88

President,
NCSEF Board of Directors

Finance Committee /
Audit Committee

Executive Committee, Chair

Strategic Planning Committee

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Nelson Peeler serves as senior vice president and chief transmission officer for Duke Energy. He oversees the safe, reliable and efficient operation of Duke Energy's electric transmission system, which includes over 32,000 miles of high-voltage power lines and more than 3,000 substations in six states.

Prior to assuming his current position in October 2016, Peeler served as vice president of transmission system planning and operations, where he had responsibility for real-time monitoring and control of the company's bulk electric transmission system.

Peeler has more than 30 years of experience in the energy industry. He joined Duke Energy in 1988 and has held a variety of leadership positions in power delivery, system planning and operations, performance support, engineering, construction, business planning, contract management, process improvement and training. He also served on the power delivery merger team leading up to the Duke Energy / Cinergy merger in 2006 and the transmission and distribution merger integration team for the Duke Energy / Progress Energy merger in 2012.

The Faith, N.C., native graduated from NC State University with a B.S. in electrical engineering and has an MBA from Queens University. He is a registered professional engineer in North Carolina and South Carolina.

Peeler currently serves on the boards of directors of the North American Energy Standards Board, SERC Reliability Corporation and the Florida Reliability Coordinating Council. He is a former board chair of the North American Transmission Forum and has represented the investor-owned utility sector on the North American Electric Reliability Corporation (NERC) Members Representative Committee. Additionally, he is a member of the NC State Electrical and Computer Engineering Hall of Fame.



Leah Pursell
Expected Graduation: BSME 2021

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**College and Alumni
Engagement Committee**

Leah Pursell is a senior studying mechanical engineering. On campus, she works as a teaching assistant for the College's MATLAB course. She also serves as the president of the Engineers' Council, which acts as a bridge between College of Engineering students and administration. Outside of studying, she enjoys going to Talley Student Union with her friends for some Howling Cow ice cream and playing tennis. After graduation, she hopes to use the skills she learned at NC State in a career in the aerospace and defense industry.



Scott Stabler
BSME '82

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Executive Committee

**Finance Committee /
Audit Committee, Chair**

Strategic Planning Committee

Scott Stabler is the executive vice president and chief transformation officer at Huntington Ingalls Industries, America's largest military shipbuilding company and a provider of manufacturing, engineering and management services to the nuclear energy, oil and gas markets. Named to this position in February 2018, he works directly with HII's divisions to assess and facilitate implementation of the transformative business model and process changes necessary to meet rapidly evolving customer demands.

Stabler joined Newport News Shipbuilding in 1984 and held progressively responsible positions in engineering, purchasing, business development and program management. He was appointed vice president of assembly in 1999 and vice president of aircraft carrier construction in 2000. He was directly responsible for program management and construction of the last Nimitz-class aircraft carrier, USS George H. W. Bush (CVN 77), from the contract award in 2001 until successful builder's sea trials in 2009. He went on to serve as sector vice president of supply chain management, vice president of corporate operations and corporate vice president of internal audit.

Stabler graduated from NC State University in 1982 with a B.S. in mechanical engineering. In 1986, he received a master's degree in business administration from the College of William and Mary. He serves on the board of directors for Hospice House & Support Care of Williamsburg, Riverside Health Systems. In 2013, he was selected as a member of the inaugural class for the NC State Department of Mechanical and Aerospace Engineering Hall of Fame.



Carl Stutts
BSCHE '68

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**Finance Committee /
Audit Committee**

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Carl Stutts retired as chairman of Cyanco Company, a leading global supplier of chemicals to the precious metal mining industry, in March 2018. He previously served as chairman and CEO at Cyanco. Prior to Stutts' tenure at Cyanco, he served as president and CEO of Texas Petrochemical Holdings and as a general partner of Columbine Venture Fund. He also held various management positions in Tenneco, Inc. and Union Carbide.

Stutts currently serves as an advisor at Oaktree Capital Management, a financial services company that specializes in alternative investment strategies. He has served on the boards of Oaktree portfolio companies and other private companies. He received an MBA from the University of Houston. He and his wife, Tessa Lesley, reside in Houston.



Alvin Sumter
BSIE '87

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Executive Committee

**Nominations, Orientation and
Recognition Committee, *Chair***

Strategic Planning Committee

Alvin Sumter is global quality assurance manager at ThyssenKrupp Elevator, the largest producer of elevators in the Americas. He joined the company in 2010, and since that time has won the company's Above and Beyond Award and its PROGRESS Award. Prior to his tenure at ThyssenKrupp, he served as manager for Quality Assurance and Integration at Cox Enterprises, and before that Cox Newspapers. Earlier in his career, he also held various positions with ASA Global Consulting and with IBM.

Sumter is passionate about education, having served on the Board of Directors of Woodward Academy Middle School in College Park, GA. He is an active NC State supporter, having participated in homecoming and several NC State events in Atlanta.

He received an M.S. in industrial engineering from Georgia Tech and is currently pursuing his Ph.D. in business administration, management and operations from Georgia State University.



Pamela B. Townsend
BSCE '84, MSCE '87

Advocacy Committee, Chair

Executive Committee

Strategic Planning Committee

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Pamela B. Townsend is a senior vice president for WSP, an international engineering and professional services consulting firm. She is responsible for strategic business development, client service delivery and financial performance for the Southeast U.S. region.

Townsend currently serves on the NC State Board of Visitors. She has served on the NC State Civil Engineering Advisory Board and in 2012, she chaired the NC State Zia Lecture series on the Panama Canal Expansion, attended by more than 700 people. Townsend is a past president of the Professional Engineers of North Carolina (PENC) and PENC Educational Foundation. She is the current chairwoman of the NC Engineers PAC.

Townsend is on the North Carolina Chamber of Commerce Board of Directors. Her service to the state of North Carolina includes a 2018 gubernatorial appointment to the NC Works Commission. She previously served on the Joint Legislative Blue Ribbon Commission to study the building and infrastructure needs of the state. She also served on the leadership team for the development of the STEM WAKE / NC State High School focusing on the NAE Grand Challenges, included in legislation developed by the JOBS Commission. Townsend received a gubernatorial appointment to this joint legislative commission. She also serves as chair of the NC Future City Steering Committee, a middle-school outreach competition, which she helped bring to the state 17 years ago.

She is a 2016 NC State College of Engineering Distinguished Alumna recipient. Other recognitions have included: *Triangle Business Journal's* Women in Business STEM Leader; Professional Engineers of NC Distinguished Engineer Award; *Triangle Business Journal's* Women in Large Business Award and Women's Transportation Seminar Triangle Chapter Woman of the Year.



Hannibal "Hans" G. Warren Jr.

BSCE '84

Advocacy Committee

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Hannibal G. Warren Jr. (Hans) is president / CEO of Warco Construction, Inc. in Charlotte. Warco is a subcontractor, specializing in Interior Commercial Construction, including sprayed fireproofing, sprayed insulation, acoustical solutions and other interior scopes.

Warren is a lifelong member and finance chair of Sedgefield United Methodist Church in Charlotte. He is also a member of Myers Park Country Club in Charlotte, where he serves on the Board of Directors. He volunteers in various capacities at NC State University, serving on the Student Aid Association (Wolfpack Club) Board of Directors and the CCEE Advisory Board. He is a charter member of the Lonnie Poole Golf Club and an Alumni Association Life member.

Warren is married to the former Elizabeth Carver Morrow of Charlotte. Together, they have blended their family and share four grown children who live in Charlotte, two of whom are also graduates of the CCEE program at NC State. Warren is a 1984 graduate of NC State with a B.S. in civil engineering, construction option.



David H. Whitley

BSEE '92

**Development Committee,
Chair**

Executive Committee

**Strategic Planning Committee,
Vice Chair**

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David H. Whitley is currently the chief technology officer at Bullhorn Inc., the global leader in software for the staffing and recruiting industry, having joined the company in March 2021. Prior to joining Bullhorn Inc., he was the managing director of DHW Ventures LLC, an executive management consulting company specializing in advisory services to software companies. He advised early stage, venture-backed and private equity owned software companies, having spent the past 15 years as head of software engineering in several private equity owned portfolio companies. Prior to establishing DHW Ventures in February 2020, he was most recently the senior vice president of product development for Applied Systems, Inc., the leading global provider of cloud-based insurance software which achieved significant global growth, leading the digital transformation of the insurance industry. Prior to joining Applied Systems in 2011, he was responsible for global product development activities for the security, government and infrastructure division at Huntsville, Alabama based Intergraph Corp., providing mission-critical software for several industries including public safety, defense, intelligence, utilities, transportation and communications.

Whitley is currently the chair of the Engineering Foundation Board Development Committee, in his first term as an EFB board member. He is currently serving in his second term on the Strategic Advisory Board for the Department of Computer Science at NC State. He is an active member of the Wolfpack Investor Network, where he is personally involved in helping other young companies achieve their growth goals, and values the ability to network with other Wolfpack entrepreneurs and investors seeking to strengthen the Wolfpack business community.

Whitley and his wife, Karen, endowed the David & Karen Whitley Engineering Scholarship several years ago, for electrical engineering or computer science students, to assist students with financial hardship having lost his father due to a heart attack his junior year of college at State. Additionally, the Whitelys have contributed to the capital campaign for the Fitts-Woolard Hall building by naming a study lounge in the new building. Whitley received his B.S. in electrical engineering from NC State in 1992.



Mark Wyatt
BSCSC '80

**Finance Committee /
Audit Committee**

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Mark Wyatt retired from Duke Energy in 2013 with 34 years of senior management and utility experience. Prior to his retirement from Duke Energy, Wyatt served as vice president of grid modernization as the lead executive for the company's grid modernization function, which was responsible for delivering enhanced operational efficiencies for the company's transmission and distribution system, as well as providing a platform for growing the company's revenue through leveraging grid modernization investments to provide value-added products and services to the company's retail customer base.

Wyatt started with Duke Power in 1980 in the information management department. He moved to the distribution department several years later, where he was responsible for the deployment of common business processes and supporting technology that enhanced the effectiveness of engineering, construction and operations functions within the department. Following this assignment, he experienced a series of promotions within the company through assignments in the retail customer services, transmission, distribution, generation, unregulated business operations and information technology areas.

Wyatt has been a member of several advisory boards throughout his career, including the Computer Science Strategic Advisory Board at NC State University; UNC Charlotte's College of Informatics Advisory Board; the North Carolina Technology Association; the Customer Services (CS) Week board of directors; Goodwill of the Southern Piedmont board of directors; and board chair for Envision Charlotte, a nonprofit organization focused on driving energy, waste, water and air efficiency opportunities within the metropolitan area of Charlotte, NC. Wyatt currently serves as board chair for the nonprofit organization Start Over that provides aid to the homeless community in Charlotte and Durham, NC.

Wyatt received his B.S. degree in computer science from NC State University in 1980.



Deborah B. Young
BSCE '77

Vice President,
NCSEF Board of Directors

Executive Committee

**Nominations, Orientation
and Recognition Committee**

Strategic Planning Committee, Chair

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Deborah B. Young retired as the global health safety and environmental (HSE) capital director for Honeywell's Performance Materials and Technology business. As capital director, she was responsible for directing HSE assessments and risk reviews of multi-million dollar projects. Young was employed with Honeywell (Allied, Allied-Signal) for almost 35 years. She held different HSE positions of increasing responsibility, including business enterprise HSE director, site HSE manager and project engineering HSE manager.

Young has been a pioneer in her life. She has been one of the first in many aspects. During her undergraduate years at NC State, she was a charter member and one of the first Society of Women Engineers (SWE) Presidents after chartering in 1976. She is a lifetime NC State University Alumni member, member of the Wolfpack Club and contributor to the College of Engineering Dean's Circle.

She was one of the first NC State Engineering Foundation Board of Directors members to commit and pledge to the Fitts-Woolard Hall in honor of her parents, William Oscar and Mattie Parham Bell.

Young and her husband, Gary, have endowed a scholarship in the Department of Civil, Construction, and Environmental Engineering for underrepresented undergraduate students. She is active in church and other organizations committed to serving the community. Young holds an M.S. in civil (environmental) engineering from the University of Pittsburgh and an MBA from Duke University's Weekend Executive MBA program, commonly known as WEMBA.



Sahaj J. Zalavadia
Expected Graduation: BSCSC 2022

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**College and Alumni
Engagement Committee**

Sahaj Zalavadia is a third-year student at NC State studying computer engineering and economics. On-campus, he is involved with the Benjamin Franklin Scholars Program and the University Honors Program, and he is an Engineering Ambassador. Zalavadia is also a member of Delta Sigma Iota Fraternity, Inc., a South Asian interest fraternity on campus. He interned at Allstate as

a software engineer during the summer of 2020 and will be interning at IBM as a software developer during the summer of 2021.

NC State Engineering Foundation, Inc.
BOARD MEMBER TERMS

BOARD MEMBER TERMS

	1st on BOD (Starting Jan. 1)	1st Term (Ending Dec. 31)	2nd Term (Ending Dec. 31)	Additional Term (Ending Dec. 31)
Term 2021				
Suzanne S. Gordon	2010	2013	2021	
Leonard "Len" H. Habas	2010	2013	2021	
Calvin H. Carter Jr.	2014	2017	2021	
Carl Stutts	2014	2017	2021	
Term 2022				
Robert "Bob" L. Brooks	2015	2018	2022	
Alvin Sumter	2015	2018	2022	
Pamela B. Townsend	2015	2018	2022	
Term 2023				
Bruce R. Baldwin	2016	2019	2023	
Suzanne Beckstoffer	2016	2019	2023	
Michael W. Creed	2016	2019	2023	
Marion "Casey" Dean	2016	2019	2023	
Rashida Hodge	2016	2019	2023	
Sam McCachern	2016	2019	2023	
V. Nelson Peeler, Jr. (<i>President</i>)	2010	2013	2017	2023
Term 2024				
Linda H. Butler	2017	2020	2024	
David W. Dove	2017	2020	2024	
Seneca Jacobs	2017	2020	2024	
Robert "Rob" S. Loftis Jr.	2017	2020	2024	
Helene G. Lollis	2017	2020	2024	
Scott Stabler	2017	2020	2024	
Deborah B. Young (<i>Vice President</i>)	2012	2015	2024	

BOARD MEMBER TERMS

1st on BOD **1st Term** **2nd Term**
 (Starting Jan. 1) (Ending Dec. 31) (Ending Dec. 31)

Term 2025

David H. Whitley	2018	2021	2025
Heather Denny	2018	2021	2025
Mark Wyatt	2018	2021	2025
Hannibal "Hans" G. Warren Jr.	2018	2021	2025
Dung Phu Chi Nguyen	2018	2021	2025

Term 2027

Michael Broaders	2020	2023	2027
Wesley "Wes" B. Covell	2020	2023	2027
Leah Pursell	2020	2023	2027

Term 2028

Steffanie Easter	2021	2024	2028
Basil Hassan	2021	2024	2028
Tiffany Chin Moore	2021	2024	2028
Deval "Dev" Parikh	2021	2024	2028
Sahaj J. Zalavadia	2021	2024	2028

College of Engineering

DEAN AND DEPARTMENT HEADS



LOUIS A. MARTIN-VEGA

Professor and Dean

College of Engineering

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Dr. Louis A. Martin-Vega, dean of engineering, joined NC State in 2006 after spending five years as dean of engineering at the University of South Florida. He has also held several prestigious positions at NSF, including acting head of its Engineering Directorate and director of NSF's Division of Design, Manufacture and Industrial Innovation. Additionally, he has served as chairman of the Department of Industrial and Manufacturing Systems Engineering at Lehigh University and Lockheed Professor in the College of Engineering at Florida Institute of Technology. He has also held tenured faculty positions at the University of Florida and the University of Puerto Rico at Mayaguez.

His research and teaching interests are in production and manufacturing systems, logistics and distribution, operations management and engineering education. He is a Fellow of the Institute of Industrial Engineers (IIE) and the Society of Manufacturing Engineers (SME) and a member of INFORMS, ASEE, Tau Beta Pi, Alpha Pi Mu and Sigma Xi. He was elected as a member of the National Academy of Engineering in 2021.

Martin-Vega's many honors from IIE include receiving the Albert Holzman Distinguished Educator Award in 1999; serving as IIE president in 2007-08; receiving the professional society's UPS Award for Minority Advancement in Industrial Engineering in 2010; and being given IIE's highest honor, the Frank and Lillian Gilbreth Industrial Engineering Award, in 2012.

In 2007, he received the Tampa Museum of Science and Industry (MOSI) National Hispanic Scientist Award. He was recognized in 2008 as the Outstanding Engineer in North Carolina by the North Carolina Society of Engineers, and in 2009, he received the Industrial and Systems Engineering Alumni Leadership Award from the University of Florida. In 2014, *Hispanic Business* magazine named him one of its 50 Most Influential Hispanics in the U.S.

Martin-Vega served as president of the American Society for Engineering Education (ASEE) from 2016-17 and served as immediate past president until summer 2018. He also served as the 2013-15 chair of the ASEE Deans Council Executive Board. He has served as a member on the National Research Council's Standing Committee for Reengineering the Census 2020 and as Chair of the Advisory Committee for the Engineering Directorate at NSF. He also served as Vice-Chair of NSF's Foundation-Wide Committee on Equal Opportunities in Science and Engineering (CEOSE).

Martin-Vega received a B.S. in industrial engineering from the University of Puerto Rico at Mayaguez, an M.S. in operations research from New York University and M.E. and Ph.D. degrees in industrial and systems engineering from the University of Florida.



PAUL A. DAYTON

William R. Kenan Jr. Distinguished Professor and Interim Chair

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Dr. Paul A. Dayton is the William R. Kenan Jr. Distinguished Professor and interim chair of the UNC / NC State Joint Department of Biomedical Engineering. Dayton replaces Dr. Nancy Allbritton who led the department from 2009 until her departure in 2019.

Dayton is an internationally recognized world leader in biomedical ultrasound imaging, ultrasound-targeted therapeutic drug delivery and the use of ultrasound imaging to assess tissue perfusion and response to therapy. He is a member of the UNC Lineberger Comprehensive Cancer Center and an expert in translational science, as evidenced by his multiple patents, two clinical trials and his co-founding of three startup companies: SonoVol, Inc, Nanosonic Bioreagents, LLC, and Triangle Biotechnology, Inc. He currently serves as the associate director for education for the UNC Biomedical Research Imaging Center, and is co-director for the Certificate Program in Biomedical Imaging Science.

His research involves developing new technologies for imaging blood flow, microvasculature and molecular markers using ultrasound and microbubble contrast agents. Several of his recent contributions to the field include techniques to improve the sensitivity and consistency of ultrasound imaging through optimization of contrast agent size distribution, the demonstration of high-resolution, high-SNR ultra broadband imaging, and techniques for real-time molecular imaging.

Dayton received a B.S. in physics and comprehensive science from Villanova University, M.E. in electrical engineering from the University of Virginia, and Ph.D. in biomedical engineering from the University of Virginia.



SINDEE SIMON

Professor and Head

**Department of Chemical
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**Effective July 1, 2021*

Dr. Sindee L. Simon is professor and head of the Department of Chemical and Biomolecular Engineering effective July 1, 2021. She replaces Dr. Peter Fedkiw, who led the department for 13 years and will remain a member of the faculty. An accomplished and widely recognized researcher and higher-education leader, Simon's research interests include the physics of the glass transition, cure and properties of thermosetting materials, and properties and reactivity at the nanoscale.

Her honors and recognitions include the International Award, as well as the Research/Engineering Technology Award, from the Society of Plastics Engineers; the Mettler Toledo Outstanding Achievement Award from the North American Thermal Analysis Society; and Fellowship in the American Institute of Chemical Engineers, the American Physical Society, the Society of Plastics Engineers and the North American Thermal Analysis Society.

Prior to starting as department head at NC State, Simon was a P.W. Horn Distinguished Professor in the Department of Chemical Engineering at Texas Tech University and served as the Whitacre Department Chair from 2012 to 2019. With Simon as chair, the Department of Chemical Engineering at Texas Tech saw a near doubling of its undergraduate enrollment, a 50 percent increase in doctoral student enrollments and 50 percent growth in research expenditures. Alumni gifts to the department increased substantially, and Simon established a student advisory council, a tutoring program and a mentoring program.

Before joining Texas Tech, she held a faculty position at the University of Pittsburgh and worked as a materials engineer with Beech Aircraft Corporation.

Simon earned a bachelor's degree (cum laude) from Yale University and a Ph.D. from Princeton University, both in chemical engineering.



MORTON A. BARLAZ

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Dr. Morton A. Barlaz is Distinguished University Professor and head of the Department of Civil, Construction, and Environmental Engineering. He is widely recognized for his research on solid waste engineering including biological and chemical processes in landfills and the application of life-cycle analysis to solid waste management

He has been involved in research on various aspects of solid waste since 1983. Over this time, he has conducted research on biological refuse decomposition, methane production, the biodegradation of hazardous wastes in landfills and policies for the long-term management of landfills after closure. His research forms the basis for much of the work done to assess the impact of landfills on methane emissions inventories. Barlaz is also recognized for his research on the use of life-cycle analysis to evaluate environmental emissions associated with alternate solid waste management strategies. Barlaz is the author of over 140 peer-reviewed publications and has made hundreds of presentations at conferences throughout the world.

Barlaz is co-editor-in-chief of *Waste Management* and co-chair of the Global Waste Management Symposium. He was awarded the Frederick George Pohland Medal by the Association of Environmental Engineering and Science Professors (AEESP) and is a Fellow of both the American Society of Civil Engineers and AEESP.

He earned his B.S. in chemical engineering from the University of Michigan, Ann Arbor, in 1978. He earned his M.S. and Ph.D. in civil and environmental engineering from the University of Wisconsin, Madison, in 1985 and 1988, respectively.



GREGG ROTHERMEL

Professor and Head

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Dr. Gregg Rothermel is professor and head of the Department of Computer Science. An IEEE Fellow and ACM Distinguished Scientist, he is widely considered one of the top software engineering researchers in the world, with his findings having been cited by thousands of researchers around the globe.

Rothermel's research interests include software engineering and program analysis, with emphases on the application of program analysis techniques to problems in software maintenance and testing, end-user software engineering and empirical studies.

He is a co-founder of the ESQuaReD (Empirically-Based Software Quality Research and Development) Laboratory at the University of Nebraska-Lincoln. He is also a co-founder of the EUSES (End-Users Shaping Effective Software) Consortium, a group of researchers who, with National Science Foundation support, have led end-user software engineering research. He co-founded and leads the development of the Software-Artifact Infrastructure Repository (SIR), a repository of software-related artifacts that support rigorous controlled experiments with program analysis and software testing techniques.

He is currently general co-chair for the 2020 ACM / IEEE International Conference on Software Engineering, serves as an associate editor for *IEEE Transactions on Software Engineering and Methodology*, and is a member of the editorial boards of the *Empirical Software Engineering Journal* and *Software Quality Journal*.

He received a Ph.D. in computer science from Clemson University, an M.S. in computer science from SUNY Albany and a B.A. in philosophy from Reed College.



DANIEL D. STANCIL

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Dr. Daniel D. Stancil is Alcoa Distinguished Professor and head of the Department of Electrical and Computer Engineering. An expert in the fields of microwave magnetics, wireless communications and nano-photonics, Stancil came to NC State from Carnegie Mellon University, where he had served as a faculty member since 1986. His tenure at Carnegie Mellon included appointments as associate department head and associate dean for academic affairs.

Stancil has received numerous research and education awards and has served as principal investigator or co-principal investigator on more than \$15 million in grants and contracts throughout his career.

His interests include innovation in education, with his work in the use of remote laboratories for undergraduate instruction recognized as a finalist for the 1995 Smithsonian Computerworld Award. He was a co-recipient of the Science Award for Excellence in 1998 from the Pittsburgh Carnegie Science Center for the development and commercialization of electro-optics technology. Also in 1998, electro-optic scanning technology that he co-developed was recognized with an IR 100 Award and a Photonics Circle of Excellence Award.

He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and has been president of the IEEE Magnetics Society.

Stancil received his Ph.D. in electrical engineering from the Massachusetts Institute of Technology in 1981.



JULIE SWANN

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Dr. Julie Swann is the A. Doug Allison Distinguished Professor and head of the Edward P. Fitts Department of Industrial and Systems Engineering as well as an adjunct professor in the UNC / NC State Joint Department of Biomedical Engineering. Prior to joining NC State, she was the Harold R. and Mary Anne Nash Professor in the Stewart School of Industrial and Systems Engineering at the Georgia Institute of Technology, where she co-founded and co-directed the Center for Health and Humanitarian Systems, one of the first interdisciplinary research centers on the Georgia Tech campus.

She is a research leader in using mathematical modeling to enable supply chain systems and health care to become more efficient, effective or equitable. Recent collaborations have been to quantify the return from public investments to improve pediatric asthma, plan for infectious disease outbreaks, analyze administrative claims data from Medicaid patients across the U.S., and design systems with decentralized decision makers. In 2004, she received an NSF Career Award, and in 2009 she was on loan as a science advisor for the H1N1 pandemic response at the Centers for Disease Control and Prevention.

Swann received her B.S. in industrial systems engineering from the Georgia Institute of Technology and her M.S. and Ph.D. in industrial engineering and management science from Northwestern University.



DONALD BRENNER

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Dr. Donald Brenner is a Kobe Steel Distinguished Professor and head of the Department of Materials Science and Engineering. He joined the NC State faculty in 1994 after holding a position as a research chemist in the Theoretical Chemistry Section of the Naval Research Laboratory in Washington, DC. Brenner served as interim head during the 2017-18 academic year and became permanent department head in place by Fall 2018.

Brenner's research focuses on atomic simulations of the structure, growth and properties of thin films; simulated engineering of nanometer-scale structures and devices; solid-state chemical dynamics; and first principles studies of materials in extreme environments. Brenner's honors include the Alexander Quarles Holladay Medal for Excellence in 2016; the Alcoa Foundation Distinguished Engineering Achievement Award in 2013; the R.J. Reynolds Award for Excellence in Research, Teaching and Outreach in 2009; and the Feynman Award for Research in Nanotechnology in 2002. He is a former member of the Scientific Advisory Committee for the Center for Nanoscale Materials at Argonne National Laboratory, as well as a member of the NC State Academy of Outstanding Teachers.

Brenner received his B.S. in chemistry from the State University of New York in 1982 and his Ph.D. in chemistry from the Pennsylvania State University in 1987.



SRINATH EKKAD

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Dr. Srinath Ekkad is the R.J. Reynolds Professor and head of the Department of Mechanical and Aerospace Engineering. Prior to joining NC State, Ekkad was the Rolls-Royce Commonwealth Professor for Aerospace Propulsion Systems in the Department of Mechanical Engineering at Virginia Tech, the associate vice president for research programs and the director of the Rolls-Royce University Technology Center for Advanced Diagnostics.

Ekkad's research focuses on thermal management, energy concepts, propulsion and advanced system diagnostics and has been supported by multiple federal and industrial sources including the National Science Foundation, Department of Energy, Rolls-Royce, Siemens and GE. He has published more than 90 articles in peer-reviewed journals, contributed to four book chapters and wrote the book, *Gas Turbine Heat Transfer and Cooling Technology*. He holds professional affiliations as a Fellow of the American Society of Mechanical Engineers (ASME), and a member of the ASME K-14 Gas Turbine Heat Transfer Committee and the International Society of Rotating Machinery (ISROMAC) Scientific Committee, among other appointments.

He is the winner of the Virginia Tech Alumni Award for Excellence in Graduate Advising, the Virginia Tech Dean of Engineering Award for Research Excellence and the ASME Bergles-Rohsenow Young Investigator Award in Heat Transfer.

Ekkad earned his B.Tech in mechanical engineering from Jawaharlal Nehru Technological University in India in 1989, his M.S. in mechanical engineering from Arizona State University in 1991 and his Ph.D. in mechanical engineering from Texas A&M University in 1995.



KOSTADIN NIKOLOV IVANOV

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Dr. Kostadin Nikolov Ivanov is professor and head of the Department of Nuclear Engineering. He came to NC State from Pennsylvania State University, where he served as a Distinguished Professor of Nuclear Engineering and Graduate Coordinator of the Nuclear Engineering Program from 2007-15.

Ivanov's work has been published in over 280 papers in peer-reviewed journals and proceedings. He has been able to maintain continuous diverse research support from international and national government agencies, national laboratories, industry, consulting companies and other universities. He has been principal investigator and co-principal investigator for more than 90 externally supported projects. Ivanov has led nine international programs supported by NEA / OECD, U.S. NRC and U.S. DOE. His activities in the area of teaching have been focused on introduction, improvement and teaching of undergraduate and graduate courses in the areas of nuclear reactor physics, analysis, design and safety, which are keystones of nuclear engineering education.

Presently he studies the next generation stochastic and deterministic methods in reactor physics analysis and also nuclear cross-section generation and modeling. Ivanov also develops advanced methods for multi-physics coupling for design and safety applications. Another topic is the study of verification and validation methods as well as uncertainty quantification and propagation in modeling and simulations.

Ivanov earned his B.S. in nuclear engineering from the Moscow Institute of Power Engineering, Russia in 1982. He received his Ph.D. in reactor physics from the Institute of Nuclear Research and Nuclear Energy (INRNE), Bulgarian Academy of Sciences in 1990.

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FITTS-WOOLARD HALL, which opened in the summer of 2020, is the new home of the Engineering Foundation.

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