

**Regional Roundtable on Additive, Disruptive
Advanced Manufacturing Technologies and Skills Development
June 27, 2014
Winston-Salem, North Carolina**

**Speaker and Panelist Bios
(in order of presentation)**

GARY M. GREEN, PRESIDENT, FORSYTH TECHNICAL COMMUNITY COLLEGE

Dr. Gary M. Green has been President of Forsyth Technical Community College in Winston-Salem, North Carolina since July 2001. Prior to that, he held teaching and administrative positions in Kentucky and Alabama. He was a speaker at the White House Conference on the Economy in 2004 and is a frequent presenter on workforce development and community college issues regionally, nationally, and internationally including appearances on CNN and C-SPAN.

Dr. Green's leadership in economic and workforce development efforts include establishing Forsyth Tech as a leader in technology education, including advanced manufacturing, logistics, nanotechnology, and biotechnology. He established the National Center for the Biotechnology Workforce at Forsyth Tech. The National Association of Manufacturers and the Bill and Melinda Gates Foundation chose Forsyth Tech as one of four community colleges nationally to pilot manufacturing skills standards, resulting in the NAM-Endorsed Skill Certification System. Dr. Green has worked with major workforce training initiatives with such companies as Boeing, Reynolds American, Hanes Brands, Dell, Siemens, and Caterpillar.

Dr. Green serves on the Education Council for the Manufacturing Institute and is a past member of the American Association of Community Colleges Board of Directors and Executive Committee. He also serves on numerous boards in the Winston-Salem area. Dr. Green is a native of Lexington, Kentucky where he earned his B.A. and M.A. in English and Ed.D. in higher education from the University of Kentucky

RICHARD S. SELINE, PRINCIPAL, REGIONNOVATE & GLOBAL NEXTGEN ADVISORS

Over a twenty-five year period, Richard has conducted 135 engagements on regional innovation in 12 countries. In his work throughout the United States, Richard has conducted statewide innovation 'roadmaps' for 30 governors, 75+ university chancellors and presidents, and hundreds of Fortune 500 CEOs and entrepreneurs. He has personally interviewed over 5,000 senior executives in the public and private sectors, and surveyed approximately 20,000 civic leaders. He currently advises several national and international next-generation entrepreneurial teams and organizations, focused on resolving the global youth unemployment crisis.

He has focused intensively on asset optimization – human, intellectual, financial, and infrastructure 'capital' – towards increasing industry revenues, sustainable economic growth, and societal benefit. He was the architect of three national initiatives: the Central Intelligence Agency's *InQTel* investment model, the National Cancer Institute's centers of innovation model, and the Department of Labor's *Workforce Innovations in Regional Economic Development* (WIRED) program.

From 1993-2010, Richard launched and grew a global consultancy on a \$5,000 investment into a \$5 million enterprise with twelve full and part-time employees, two offices, and a database of 100+ million records on ten-years worth of federal grants and contracts, philanthropic gifts, patents, papers and similar unique 'knowledge.' Projects included the formation of a \$500 million statewide initiative in Utah, a \$250 million

early stage fund in Texas, a \$100 million foundation in Greater Detroit, and a \$50 million regional initiative in Greater Washington, D.C. His work for and with the Heinz Endowments, the MacArthur Foundation, the Houston Endowments, and several community, family, and corporate philanthropies sparked 'civic-steward' campaigns in Pittsburgh, Philadelphia, Houston, Chicago, South Florida, Detroit, Cleveland.

Richard was appointed as the Deputy Assistant Secretary of Commerce, Chief of Staff of the President's Commission on Executive Exchange, and White House Liaison to the Economic Summit of Industrialized Nations in the George H.W. Bush Administration. Prior to moving to Washington, he was Special Assistant to the President of the University of Texas M.D. Andersen Cancer Center, and Vice President in his family's 100-year old construction company. Over a four-year period, Richard was Senior Practice Advisor to Arthur Anderson Public Sector, providing strategic advice and subject matter expertise on the reorganizations of the Federal Aviation Administration, the Office of the Director for the Federal Bureau of Investigations, and the Executive Office of the President – the White House.

JENNIFER M. MCNELLY, PRESIDENT, MANUFACTURING INSTITUTE

Jennifer McNelly was named President of The Manufacturing Institute, the non-profit affiliate of the National Association of Manufacturers (NAM), effective April 1, 2012. As President of the Institute, Jennifer will drive an agenda focused on improving and expanding manufacturing in the United States through education, innovation, and research.

Jennifer has extensive experience in workforce development, employer engagement, and business. She is a proven leader at the Institute as the chief architect of one of the organization's flagship initiatives, the NAM-Endorsed Manufacturing Skills Certification System. A set of nationally portable, industry-recognized manufacturing skills certifications, the System is building the next generation of skilled manufacturing employees by influencing secondary and post-secondary education reform efforts in over 35 states which is building the next generation of skilled manufacturing talent.

Prior to joining the Institute, Jennifer, a member of the Senior Executive Service (SES), was Administrator for the U.S. Department of Labor's Office (DOL) Office of Regional Innovation and Transformation. She also served as the Director of the Business Relations Group for the DOL Employment and Training Administration. In this capacity, she managed the President's High-Growth Job Training Initiative and the Community-Based Job Training Grants. Her strong private-sector experience includes serving as the Senior Vice President of Strategic Partnerships, LLC, an international consulting firm specializing in assisting Fortune 500 corporations build strategic partnerships with government agencies in support of workforce development.

Jennifer is a member of the World Economic Forum's Global Agenda Council on Advanced Manufacturing; the American National Standards Institute (ANSI) Personnel Certification Accreditation Committee; the Precision Metalforming Association (PMA) Education Foundation; and the SME Education Foundation Board.

CELESTE CARTER, NATIONAL SCIENCE FOUNDATION

V. Celeste Carter, Ph.D., is Program Director, Division of Undergraduate Education (DUE), National Science Foundation (NSF). Dr. Carter received her Ph.D. in Microbiology from the Pennsylvania State University School of Medicine in 1982 under the direction of Dr. Satvir S. Tevethia. She completed postdoctoral studies in the laboratory of Dr. G. Steven Martin at the University of California at Berkeley. She joined the Division of Biological and Health Sciences at Foothill College in 1994 to develop and lead its Biotechnology Program.

From 2001 - 2003, she served as a Program Director in the Division of Undergraduate Education (DUE) at the National Science Foundation (NSF). Prior to her arrival at NSF, she was the recipient of an NSF DUE award, which produced a set of case studies and associated laboratories with biotechnology industry partners. She returned to Foothill College in the fall of 2003 to resume her position as Director for both the Biotechnology and Bioinformatics Programs.

Dr. Carter returned to the NSF as a Program Director from 2007 to 2008, and again returned to Foothill College to resume teaching. Dr. Carter recently accepted a permanent position in DUE as the Lead Program Director for the ATE Program.

MARY RITTLING, PRESIDENT, DAVIDSON COUNTY COMMUNITY COLLEGE

Dr. Mary E. Rittling was named the third president of Davidson County Community College in August 2003. With a full-time faculty and staff of almost 300 and approximately 400 adjunct instructors and part-time staff members, DCCC serves close to 17,000 students each year at its two campuses and three satellite education centers in Davidson and Davie counties.

Prior to her service at DCCC, Rittling served four years as Regional Vice President of West Virginia University, where she also was President of Potomac State College of West Virginia University. In addition, Rittling spent seven years as a senior administrator at the State University of New York at Delhi, where she served as Interim President of the College of Technology and Vice President for Academic Programs and Services, among other roles.

Her teaching experience includes eight years as a Professor and Associate Professor of Nursing at the State University of New York College of Technology at Delhi. Rittling, who completed the Harvard University Institute for New Presidents in 1999, earned a Doctor of Education degree in Higher and Adult Education from Columbia University in New York City after completing her Master of Arts degree. In addition, she earned a Master of Science degree in Nursing from Binghamton University and a Bachelor of Science degree in Nursing from D'Youville College in Buffalo.

AMOGH BHONDE, SIEMENS ENERGY

Amogh Bhonde is Plant Director of the Siemens Energy Winston Service Center in Winston-Salem, NC. Amogh has responsibility to manage the manufacturing and repair operations for advanced turbine components that are supplied to power plants world wide. He has more than a decade of experience in the Energy Industry. Most recently, he was responsible for expanding the US manufacturing footprint of steam turbines in Charlotte, NC. Prior to that, Amogh held various positions with increasing responsibility within engineering, purchasing and project execution at Siemens.

Amogh earned a Master's degree in Industrial & Systems Engineering from the University of Florida and a Bachelor's degree in Mechanical Engineering from the University of Pune.

Siemens Energy Sector is the world's leading supplier of products, services and solutions for power generation. Its extensive portfolio comprises highly efficient technologies for thermal power plants, renewables, power transmission, and for the extraction, processing and transport of oil and gas. Siemens Energy has about 84,000 employees worldwide.

MATTHEW CARTER, COOK MEDICAL

Matthew Carter is currently Vice President of the Endoscopy Division for Cook Medical, having joined the growing medical device and manufacturer in 1993. He is a widely regarded expert in advanced manufacturing and production engineering, product development and product management.

Mr. Carter is an inventor and co-inventor on fourteen (14) U.S. patents, all in the areas of medical devices and biomedical technologies. Cook Medical makes 16,000 different products that serve 13 unique hospital lines of patient care. Cook Endoscopy (formerly Wilson-Cook Medical Inc.) was established to provide innovative products for gastrointestinal endoscopy. By working closely with prominent gastroenterologists, Cook Endoscopy has become a worldwide leader in the design, development and production of endoscopic accessories. The company has been responsible for introducing numerous new devices to the endoscopy marketplace.

His education spans undergraduate, graduate and post-graduate work from Appalachian State University, East Carolina University, and Indiana State University.

PENNY WHITEHEART, EXECUTIVE VP, PIEDMONT TRIAD PARTNERSHIP

Penny Whiteheart is Executive Vice President of the Piedmont Triad Partnership, a multi-county regional economic development organization. Prior to assuming her current role, she was Vice President of Research and Technology from 2000-2006. She was Vice President of Economic Development for the Greensboro Area Chamber of Commerce from 1998-2000. In her capacity with the Partnership, Penny has served on several regional and statewide organizations including as a board member of the Center for Creative Economy, committee member of the North Carolina Biotech Center Piedmont Triad Advisory Committee, and the Advisory Committee for Community & Economic Development of UNC-Greensboro MPA Program. Penny was a member of the regional WIRED grant implementation team and has remained active in advocating for increased collaboration of workforce and economic development interests. She holds an BA and MPA from the University of North Carolina – Chapel Hill, as well as several economic development certifications.

NAGESH RAO, US SMALL BUSINESS ADMINISTRATION ENTREPRENEUR IN RESIDENCE

G. Nagesh Rao is a practicing technologist and commercialization strategist working at the intersection of applied science, law, business, and public policy from both domestic and international perspectives. Currently he is serving as an Entrepreneur in Residence & Policy Advisor with the US Small Business Administration's Office of Investment & Innovation.

With over 10+ years of successful experience he has been afforded the privilege to work with top-tier cutting edge organizations such as Rensselaer Polytechnic Institute's Office of Technology Commercialization, The National Academies (NAS, NAE, IOM & NRC), US Department of Commerce (USPTO, EDA, & OIE), LAUNCH, CleanTech Los Angeles, Global Access in Action, NCET2, Innovation Endeavors, Planet Labs, Atavist, Ecovative Design, Publicbeat, and most recently Stiefel Family Foundation. Some of his recently accoladed projects include i6 Green, FLoW, and Patents for Humanity.

Furthermore he has served on the following White House commissioned Federal Interagency working groups: Startup America, Impact Investing, Federal Technology Transfer, Lab to Market Commercialization, and Fueling Small Business Innovation. Currently he is engaged on projects, in Washington DC, San

Francisco, and New York, that will hopefully change the world for the better through the democratization of groundbreaking technological innovations via the creation of "win-win" scenarios.

As well Nagesh composes and presents intellectual musings which have been featured via WAMC-NPR, TechCrunch, The Scientist, Triple Pundit, MIT XPrize Lab, UC Berkeley, RPI, Stanford, Cleantech Open, Xerox-parc, NCET2, BPIA and PwC's CleanTech Revolution at the LA Autoshow. His credentials include a MBA (Global Strategy and Entrepreneurship) from the University of Maryland-College Park, a MSc in Legal Studies-Intellectual Property Law from Albany Law School, a BSc dual-major in Materials Engineering and Philosophy from Rensselaer Polytechnic Institute, and his Patent Bar License from the USPTO.

BRETT LADETTO, VOLVO AND MACK TRUCKS

Brett is currently Manager of the Digital Surface Modeling Group for Volvo and Mack Trucks, North America, and is responsible for developing best practices, concept modeling, Class-A production modeling, aerodynamics modeling support, and advanced 3D rendering and animation. Prior to joining Volvo, Brett owned D-Force and Ladetto Surfacing Solutions. His work in the fields of modeling and software include stints with General Motors Design, Honda Jet, Bentley Motors, Lear, and Chrysler Advanced Vehicle Concepts and Innovation.

Brett holds a BFA in Industrial Design Transportation from the College for Creative Studies, undergraduate degree in General Studies from Oakland Community College, and undergraduate work from Michigan State University in Engineering Arts.

DOUG SPEIGHT, CATHEDRAL INNOVATION GROUP

Doug Speight is a serial entrepreneur and CEO of Cathedral Innovation Group. His career extends across entrepreneurial, technology transfer and venture investment industries. Speight's latest start-up, Cathedral Innovation Group, is focused on additive manufacturing, which has spun off three subsidiaries: Cathedral Leasing, TrakTek 3D and Visionary Fabrications.

Speight served as Entrepreneur-in-Residence and Senior Commercialization Manager at Oak Ridge National Laboratory where he focused on intellectual property management and technology commercialization opportunities. In addition to holding past leadership appointments at North Carolina A&T State University (NC A&T), he has ten years of technology transfer and commercialization experience with both NC A&T and NASA and seven years of entrepreneurial experience in a tech-based startup.

Speight formerly served as the Assistant Vice Chancellor for Outreach & Economic Development at NC A&T where his duties included management of Technology Transfer, Venture Development and Economic Development activities. Speight was an active leader in developing technology transfer strategy and economic development policy for the sixteen-campus University of North Carolina System through his appointment to the Office of the President's Economic Transformation Council. Prior to his role as Assistant Vice Chancellor, he served as Director for Technology Transfer & Commercialization, during which time NC A&T's intellectual property portfolio expanded to five times its former size and contained diverse technologies from structural health monitoring systems for aerospace applications to nutraceuticals. Speight was also instrumental in launching four start-ups from NC A&T in biomedical diagnostics, medical devices, information technology and advanced materials, in addition to advising and mentoring over forty-one entrepreneurial companies.

As a technology transfer consultant for NASA, he worked with Kennedy (Florida), Stennis (Mississippi) and

Marshall (Alabama) Space Flight Centers to market and license technologies from each of their intellectual property portfolios. Speight has played critical roles in launching an early-stage angel investment fund in the Charlotte, NC region, in addition to founding and serving as Principal Partner of a successful engineering design firm which serviced several Fortune 1000 manufacturing clients.

Speight holds a degree in Industrial Technology from North Carolina A&T State University and an MBA in finance and entrepreneurship from the Kenan-Flagler Business School at the University of North Carolina at Chapel Hill.

LES RANGE, REGIONAL ADMINISTRATOR, US DEPARTMENT OF LABOR, EMPLOYMENT & TRAINING ADMINISTRATION

Les is the Regional Administrator for the United States Department of Labor's Employment and Training Administration Region Atlanta. He started his Federal career on October 21, 2013. Located in Atlanta, Georgia, Les leads a staff of 42 employees who provide leadership to national, state and local leaders to develop workforce solutions which meet the needs of employers, workers, and communities; including working with communities to identify and develop the potential of every citizen to become a skilled worker and engage in the growth of their regional economy. He oversees almost \$4 billion in federal grant resources to state and local grantees in the states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina and Tennessee.

Prior to joining the Atlanta office in 2013, Les served in various capacities with the Mississippi Department of Employment Security for 10 years. He served as the Unemployment Insurance Director, Deputy Executive Director and Executive Director for the agency.

Les is an experienced executive and manager. In addition to having been a business owner, he has worked for colleges, universities, and regional and local economic and community development organizations.

He is a member of the Federal Reserve Bank of Atlanta, Health and Education Advisory Committee. Other past involvements include: Member of the Mississippi's Team Leader for the National Governors Association Policy Academy on State Sector Strategies; Member, Southern Growth Policies Board Council for a New Economy Workforce; and Board member, National Association of State Workforce Agencies, Region IV Director.

He attended Northeastern University in Boston, Mass. where he earned a B.A. in English/Journalism. He later earned an M.B.A. from Delta State University in Cleveland, Mississippi.

DAN DeMAIONEWTON, VP FOR STRATEGY, EMPYRA; FORMER VP OF STRATEGIC INNOVATION, MONSTER

Dan DeMaioNewton is a world-renowned workforce and human capital leader who has helped revitalize, accelerate, and improve talent supply chains for businesses, governments, and educators. As the Vice President of Strategy at Empyra, Dan works with workforce and educational leaders to improve their strategic talent supply chains, improve pathways to career success, and implement high performance programs.

He drove strategy, innovation, and value creation at global brands that include Monster Worldwide, Houghton Mifflin Harcourt, Arthur D. Little, IDC, and CSC. Dan earned an Ed.M. from Harvard University focusing on technology in education and human development and psychology.

Dan has 3 patents-pending relating to technologies that help job seekers get better jobs faster, and introduced more than a dozen innovations at Monster.com to help deliver greater value to educators, employers, and job seekers. His message and mission are the same: "We can do better. Now let's do better." Dan's many accomplishments include:

- **USAJOBS** - Dan led the complete re-engineering of the award-winning official job site for the US Federal government. Under his leadership, USAJOBS became the 5th most visited career site on the entire Internet.
- **STEMPower** - Helping drive success for careers in Science, Technology, Engineering, and Mathematics for Massachusetts
- **StudentJobs** - The official US Federal job site for Student Internships, Fellowships, Entry Level jobs with the US Federal Government
- **Hurricane Relief** - Monster partnered job site for those impacted by Hurricane Katrina for volunteer, survivor, and reconstruction workers
- **Extreme Hiring Makeover** - Led year-long engagement to sustainably raise-the-bar for Federal government recruitment (www.extremehiringmakeover.org)
- **Monster Evolutions** - Chief Architect behind Monster's better outplacement solution to ease departure and speed the arrival of new talent
- **Kix.com**- Kentucky Indiana Regional Exchange helping 26 counties to transform the regional economy; Pathways Out of Poverty – to develop new career opportunities for regions with a challenged workforce

ERIC ROE, POLK STATE COLLEGE, MANUFACTURING TALENT DEVELOPMENT INSTITUTE

Dr. Eric A. Roe has extensive experience in creating high-performance, high profile programs, and collaborative partnerships to make workforce education and training relevant for employers and the economy through systemic reforms which align competencies with talent development pathways.

He is currently the Director of Applied Technology at Polk State College where founded and oversees the [Manufacturing Talent Development Institute](#) (formerly the Workforce Florida *Banner Center for Advanced Manufacturing*), this statewide resource center serves as Florida's bridge between industry and talent development systems. It develops industry driven training strategies, educational programs, and certifications for advanced manufacturing's entry-level and incumbent workers. Dr. Roe is also the:

- Program Director of the new competency-based Open-Entry / Open-Exit Engineering Technology AS degree at Polk State College in Lakeland, FL. This applied engineering degree prepares students for employment or provides additional training in advanced manufacturing and high technology industries.
- Principal Investigator of a NSF ATE grant to shift the current traditional Engineering Technology A.S. degree and courses to a hybrid direct-assessment, non-term, competency-based educational program that flips the classroom for theory development which is then combined with hands-on open lab assignments. It is outcome-based and assesses a student's attainment of competencies as the means of awarding credit hours towards an A.S. degree or college credit certificate.
- Co-Principal Investigator and director of two TAACCCT grants to strengthen Engineering Technology and Advanced Manufacturing training and education programs.

All of these initiatives have created a unified educational system in Florida that provides the curriculum, educational articulation pathways, and certifications needed to deliver required workplace competencies for modern manufacturing.

Dr. Roe held various positions in manufacturing research, technical services, and engineering before joining the education sector to become the founding director of *FLATE*, the Florida Advanced Technological Education Center, which is focused on creating a skilled and educated technical workforce.

Dr. Roe earned his Ph.D. in Chemical Engineering from the University of South Florida, where he developed an alternative feedmill process for citrus processing. In his professional career, he has worked in 3 areas of vital importance to Florida – Manufacturing, Citrus, and Education. He has served as keynote speaker and technical lecturer at regional, national, and international conferences in economic and workforce development, education, and engineering.

BART MERONEY, US DEPARTMENT OF COMMERCE, MANUFACTURING COUNCIL

Bart Meroney is the Senior Advisor in the Office of Manufacturing in the International Trade Administration (ITA) of the U.S. Department of Commerce. He currently manages the work of ITA's Manufacturing unit, a group of International Trade Specialists that develop and promote policies and programs to increase the international competitiveness of U.S. manufacturers.

Bart has provided policy, research, and staff support to the Secretary of Commerce's Manufacturing Council. The Manufacturing Council serves as the principal private sector advisory committee to the Secretary of Commerce on the United States manufacturing sector. The Council is charged with ensuring regular communication between the federal government and the manufacturing sector, advising the Secretary of Commerce on government policies and programs that affect United States manufacturing and provide a forum for discussing and proposing solutions to industry-related problems and to ensure that the United States remains the preeminent destination for investment in manufacturing throughout the world.

Mr. Meroney has worked on trade policy issues in the public and private sector for over 15 years. His government service includes policy development at the local, state, and federal level. In 2013, he was a Brookings Institution Legislative Fellow on Capitol Hill in the Whip's Office for Rep. Steny Hoyer, where he worked on variety of policy issues including the manufacturing sector. Bart is a native North Carolinian and a graduate of the University of North Carolina.