

NTC Principal Investigators and Researchers

Albert G. Abbott, a Professor of Biological Sciences at Clemson, joined the faculty in 1984. He earned a Ph.D. in cell and molecular biology from Brown University in 1980 and a B.S. in biological sciences from Univ. of Connecticut in 1976. He was a Fellow at the Rockefeller Foundation's Plant Breeding Institute in Cambridge (England). Bert's research interests include basic gene structure and function, improving plant products through genetic manipulation and genetic engineering to produce novel proteins.

M98-CL05, M02-CD05, M02-CL04, M05-CD01

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Memis Acar, a visiting research scholar at NC State, has been a Lecturer (1986) and Senior Lecturer (1991) in Mechanical Engineering at Loughborough University (Leicestershire UK) where he earned a PhD in mechanical engineering in 1984. He earned an MSc in textile technology in 1979 from Univ. of Manchester. Memis' research interests include air-jets for texturing and mingling, water jets for hydroentanglement, hydroentangled nonwovens, design of textile machinery, mechatronics in textile industries and yarn imaging.

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Faissal Abdel-Hady, a Research Assistant Professor of Textile Engineering at Auburn since 1998 and an Assistant Professor of Mechanical Engineering at Ain Shams (Egypt), earned a B.S. in 1975 and an M.S. in 1981 there and a Ph.D. in 1988 at Ecole Nationale Supérieure des Mines de Saint Etienne (France), all in mechanical engineering. Faissal then was a manager in industrial software for Hicon France. His research interests include thermal analysis, stress simulation, automatic control and mechatronics, mechanical components, CAD/CAM for filament wound structures, dynamic signal processing and software development.

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Sabit Adanur, a Professor in Textile Engineering at Auburn since 1992, earned a Ph.D. in fiber and polymer science in 1989 an M.S. in textile engineering in 1985, both from NC State and a B.S. in mechanical engineering in 1982 from Istanbul Technical University (Turkey). Before coming to Auburn, Sabit was a product and process development manager for Asten Forming Fabrics (Appleton WI). His research interests include industrial textiles, composites, computer-aided design and manufacturing.

F92-A03, F92-S12, F94-A08*, F95-A24, I96-A09*, F99-AE10*, S00-AE06*, M02-MD08, F03-AE02*, F04-AE01*, F05-AE13

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Mohamed Abou-liana, an Assistant Professor of Textile Engineering at PhiladelphiaU since 1997, earned his Ph.D. from NC State in knitting engineering in 1995, a masters from Leicester Polytechnic (ENG) in 1987, and B.Sc. in textile engineering from Alexandria University (Egypt) in 1983. Mohamed spent about 15 years in the textile industry in Egypt and USA in knitting, dyeing and finishing and apparel industries. His research interests include knitting, on-line control of knitting machines, mechanical properties of fabrics and software development for the textile industry.

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Carol Adelson, an Associate Professor at New York City's Fashion Institute of Technology (FIT) and Chairperson of the Fashion Design Dept., joined the faculty in 1966. Carol earned an A.A.S. in fashion design in 1956 from FIT and a B.A. in liberal arts in 1973 and an M.S. in education & media in 1977, both from City Univ. of New York. Her research interests include sportswear design and pattern making.

S01-CR01, S04-CR01

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NTC Principal Investigators and Researchers

Anwar Ahmed an Associate Professor and Director of the Wind Tunnel and Aerodynamics Lab at Auburn, earned a B.Sc. in mechanical engineering from Peshawar Univ. (Pakistan) in 1976 and a Ph.D. in aerospace engineering from Wichita State in 1985. Since then Anwar taught at Tuskegee Univ and Texas A&M and was Associate Director of Aerospace at Southern Univ. His research interests include aero-optics of airborne lasers, flow instabilities in jets, wakes and boundary layers, vortex dominated flows, circular shear layers and free vortex dynamics.

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Pulickel Ajayan, the Henry Burlage Professor of Materials Science and Engineering at Rensselaer, joined the faculty in 1997 after postdocs at NEC Corp. (Japan), Lab. de Physique des Solides (Orsay) and Max-Planck-Inst. fur Metallforschung (Stuttgart). He earned a B.Tech in metallurgical engineering from Banaras Hindu Univ. (India) in 1985 and a Ph.D. in materials science and engineering from Northwestern Univ. in 1989. Pulickel's research interests include synthesis and structure-property relations of nanostructures and nanocomposites, applications of nanomaterials, phase stability in nanoscale systems and electron microscopy.

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Arun P. Aneja, a Research Associate Professor in Technology and Computer Science at East Carolina Univ., joined the faculty in 2004 after a 30 year career with DuPont and Monsanto in the chemical, material and textile industries. Arun earned his B.Tech from Indian Inst. of Technology (Kanpur) in 1970 and a Ph.D. from NC State in 1974, all in chemical engineering, and an MBA from Duke in 1983. He is inventor of Coolmax Alta[®], Supriva[®], MicroSelect[®] and ThermaStaf[®]. His research interests include: new product/process development, material processing, fiber engineering, compression of structures and comfort of textile materials and clothing.

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Eileen Armstrong-Carroll, a Research Associate at the School of Textiles and Materials Technology at Philadelphia University, joined the staff in 1999. Previously she was with Navmar Applied Sciences and the Naval Air Warfare Center. Eileen earned a B.A. in physics from Boston Univ. in 1986 and an M.S. in materials engineering from Drexel in 1989 and has teaching certification in physics and chemistry. Her research interests include instructional methods, low cost manufacturing techniques and modeling of fabric and composite structures.

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Susan P. Ashdown, a Professor of Textiles and Apparel at Cornell, joined the faculty in 1991. Susan earned a Ph.D. in apparel from the Univ. of Minnesota in 1991, a M.A. in textiles: apparel design from Cornell in 1989, and a B.A. in theater arts from Grinnell in 1971. Her research interests include anthropometrics; apparel sizing, fit and the perception of fit and 3D body scanning.

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J. Richard Aspland, a Professor of Textile Chemistry at Clemson, joined the faculty in 1982. He earned a M.S. in dyeing at Leeds (U.K.) in 1960 and a Ph.D. in textile chemistry from Manchester (U.K.) in 1964. From 1966-82, Dick held research and research management positions at Sodyeco (now a Sandoz div.) and Reeves Brothers. His research interests include dye-fiber interactions, shade sorting and dye synthesis.

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Cécile Aubé, a masters student in Genetics and Biochemistry Life Science Studies at Clemson, earned a B.S. in biomedical research and biotechnology in 1999 from "École supérieur des Techniques de Biologie Appliquées" (Paris). Cécile's research interest is the production and purification of spider silk proteins for novel synthetic fibers.

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Eric M. Austin, an Assistant Professor of Mechanical Engineering at Clemson since 2000, earned a Ph.D. in engineering mechanics in 1998 from Virginia Tech where he had been a Research Scientist at the Center for Intelligent Material Systems and Structures. Eric also has an M.S. in theoretical and applied mechanics (1982) and a B.S. in general engineering (1980) both from Univ. of Illinois. His research interests include vibration suppression, materials with time-dependent properties (viscoelastic) and finite element analysis of layered media.

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John Ballato, an Assistant Professor of Materials Science and Engineering and Director of the Center for Optical Materials Science and Engineering Technologies at Clemson, joined the faculty in 1997 after earning a Ph.D. in ceramic and materials engineering from Rutgers. His research interests include photonic and electro-optic materials; rare-earth doping for active and passive applications including lasers, optical amplifiers and isolators; photonic communication systems; and electro-optic, ferroelectric, piezoelectric and other mixed-effects in bulk and thin-film materials.

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Sayavur I. Bakhtiyarov, a Senior Research Fellow in the Space Power Institute at Auburn, joined the staff in 1995. Sayavur earned a Sc.D. from the Azerbaijan Inst. of Math. & Appl. Mech. in 1992 and a Ph.D. from the Azerbaijan Institute of Thermophysics in 1978, all mechanical engineering. He also holds a B.Sc. from Azerbaijan Inst. Of Oil & Chemistry in 1971. His research interests are rheology of composites and polymers, fluid and gas dynamics.

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Pamela Banks-Lee, Associate Dean of the Graduate School and Associate Professor of Textile and Apparel, Technology and Management at NC State, earned a B.S. in applied mathematics and in textile technology in 1976, an M.S. in textile marketing and management in 1979 and a Ph.D. in fiber and polymer science in 1986, all from NC State. Earlier Pam was a process control engineer for Monsanto. Her research interests include noise and vibration control in textile machinery, acoustic properties of materials and material-machine interactions.

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C. Maurice Balik, a Professor in Materials Science and Engineering at NC State, joined the faculty in 1982. Maury earned a B.S. in chemical engineering from Grove City College in 1975 and a Ph.D. in macromolecular science from Case Western Reserve Univ. in 1981. His research interests include sorption and transport of small molecules in polymers, polymer/cyclodextrin inclusion compounds, polymers in electro-rheological fluids and mechanical alloying of polymers.

M02-NS01, M06-NS02

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Roger L. Barker, a Burlington Distinguished Professor in Textiles and Director of the [Textile Protection and Comfort Center](#) at NC State, joined the faculty in 1981 after having served on the faculties of Cornell and Clemson. Roger received a M.S. in physics from Tennessee in 1969 and a Ph.D. in textile and polymer science from Clemson in 1978. His research interests include thermal protective performance and comfort of textile materials and clothing, instrument analysis of thermal and mechanical properties of textiles materials, instrumented manikins, and assessment of human response to clothing comfort.

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Robert A. Barnhardt, a Professor in Textile & Apparel Technology & Management at NC State, served as Dean of the College of Textiles 1987-99, earned a B.S. in textile engineering from PCT&S (PhiladelphiaU) and an Ed.D. in higher education administration from Univ. of Virginia in 1974. He was an Associate Professor and then Department Head at PCT&S for 5 yrs followed by a 21 yr career at ITT as Dean, then VP of Research & Education, Executive VP and COO. His research interests include development of textile education and extension activities in NAFTA countries.



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Arindam Basu, the Assistant Director of The South India Textile Research Association, Coimbatore, earned a Ph.D. in textile engineering from Univ. of Leeds in 1991, a bachelor's in 1983 in textile technology from Univ. of Calcutta and a Diploma in business and industrial management from Datamat-ics Institute (Bombay). He was a supervisor for West Bengal Co-operative spinning mills from 1986-1997 and then Deputy manager for Indian Rayon and Industries Limited.



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Stephen E. Bechtel, Professor and Graduate Studies Chair at Ohio State, joined the faculty in 1983 upon earning a Ph.D. in mechanical engineering at UC-Berkeley. He also earned a B.S. in engineering science from Univ. of Michigan in 1979. Steve's research interests include computer modeling of industrial polymer processing, continuum mechanics, viscoelastic fluid flow, free surface flows and instability mechanisms characterization of industrial and agricultural materials.



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Haskell Beckham, a Professor at Georgia Tech, joined the faculty in 1993. He received a B.S. in textile chemistry at Auburn and a Ph.D. in polymer science at M.I.T. in 1991 whereupon he served a 2-year postdoctoral internship at the Max Planck-Institute (Mainz). His research interests include polymer and textile chemistry, synthesis and properties of functionalized polymers and solid state NMR investigations of polymer molecular structure, order and dynamics.



M95-G08, C95-G20, C95-G13*, C97-G11*, C05-GT04*, F06-GT05

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Claire Beevers, an Associate Professor of Textile Design at PhilaU, joined the faculty in 1985. Claire has a B.Sc. in textile design from Huddersfield Polytechnic in 1981 and a M.A. in textile/fashion design from Leicester Polytechnic in 1983. Her research interests include weft knit fabric development, particularly 3 dimensional shaping for industrial and technical applications.



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Hassan M. Behery, an Associate Professor in Textile Science at Clemson first joined the faculty in 1965. He earned a Ph.D. in textiles from Manchester Univ. (England) and a M.S. in mechanical engineering from Alexandria Univ. (Egypt) where he was a Professor and Head of the Textile Dept. 1967-69. Hassan was also a manager of textile processing for Phillips Fibers Corp. 1972-75. His research interests include fiber science, fiber and yarn processing and nonwovens.



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Krishna L. Bhat, an Assistant Professor of Organic Chemistry at PhiladelphiaU since 1997, earned a M.S. in 1973 from Karnatak Univ. (India) and a Ph.D. in 1979 from the Indian Institute of Technology, both in organic chemistry. Kris did postdoctoral research at Utah State Univ. and the Univ. of Pennsylvania. His research interests include combinatorial synthesis of azo dyes, use of amino acids as chiral synthons for syntheses of biologically active compounds and development of new uracil derived immunosuppressive and anti-inflammatory agents.



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Sankha Bhowmick, an Assistant Professor of Mechanical Engineering at UMassD, joined the faculty in 2002 following a research fellowship at Harvard Medical School. Sankha earned a Ph.D. at Univ. of Minnesota in 2000 and a B.E. at Jadavpur Univ. (Calcutta) in 1992, both in mechanical engineering. He worked as an engineer for Philips, India. His research interests include thermodynamics and heat and mass transfer in biomedical engineering, specifically tissue engineering, thermal therapy and preservation of mammalian cells for future therapeutic applications.



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Martin Bide, a Professor in Textiles, Fashion Merchandising and Design at Univ. of Rhode Island, joined the faculty in 1991, following 4 years in dye-stuff development (UK) and 10 years in Textile Sciences at UMassD. Martin earned a B.Tech. (1974) and Ph.D. (1979) in colour chemistry and colour technology from Univ. of Bradford (UK) in 1979. He is a Fellow of the Society of Dyers and Colourists. His research interests include dyeing, printing, dye-stuff analysis, wool processing, and color science, the environmental effects of textile processing, and bio-medical textiles.

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Mohamed A. Bourham, a Professor of Nuclear Engineering at NC State, joined the faculty in 1987 after serving on the staff of the Nuclear Research Center (Egypt). Mohamed earned a B.Sc. in electrophysics engineering from Alexandria Univ. (Egypt) in 1965 and a Ph.D. in plasma science from Ain Shams Univ. (Egypt) in 1976. His research interests include plasma-material interactions, plasma dynamics, physics of low temperature and non-ideal plasmas, pulse power, fusion "diverters and first wall" technology, particle accelerators and electron beam irradiation systems.

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Charles Bock, a Professor of Computational Chemistry at PhiladelphiaU earned a Ph.D. in 1972, an M.S. in 1970 and a B.S. in 1968, all in physics from Drexel. Chuck's research interests include computational chemistry, molecular modeling of carcinogenic dyes and interaction of water with various metal ions.

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Evelyn Brannon, an Associate Professor in Consumer Affairs at Auburn, joined the faculty in 1990 after earning a Ph.D. in Communications at the Univ. of Tennessee in 1989. She also has an M.S. in Clothing and Textiles from Auburn. Evelyn has been an editor/writer for several consumer publications and an industry consultant on product development and entrepreneurship. Her research interests include consumer behavior, retail forecasting systems, and rural economic development.

I92-A06*, I95-A19, I95-A20*, I98-A07, I98-A08, I98-A09*, S01-AC25*

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Hans G. Boerner, an Assistant Professor in Polymer Science at the Max Planck Institute of Colloids and Interfaces (Berlin) joined the faculty in 2001 after a research fellowship at Carnegie Mellon Univ. Hans earned a Ph.D. in macromolecular science at Phillips-Univ. (Marburg, Germany) in 2000. His research interests include the synthesis, characterization and application of polymer bio-conjugates exhibiting self-organization properties.

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Roy M. Broughton, Jr., a Professor of Textile Engineering at Auburn since 1976, received his Ph.D. with concentrations in textile chemistry and fiber and polymer science from NC State. Before joining Auburn, Roy worked in polyester research at Goodyear Tire & Rubber. His research interests include manufacture, utilization and testing of fibers and nonwovens.

F92-A02*, F92-A03, M92-A01, M93-S05, I95-A11*, M96-A02*, M98-A10, F96-A03, F98-A04*, C98-A17*, M99-GT11, S01-AE32, C02-AE02, C02-CD06, C05-AE05*, M05-AE11, C06-AC01, S06-CD01

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Larry Bottomley, a Professor of Chemistry at Georgia Tech, joined the faculty in 1983 from 3 yrs as Assistant Professor at Florida State Univ. Larry earned a B.S. in chemistry at California State Univ. in 1976 and a Ph.D. in analytical chemistry at Univ. of Houston in 1980. His research interests are biological applications of scanning probe microscopy, microcantilever and microacoustic array sensors, and electroanalytical chemistry, especially focused on determining the tertiary structure of proteins and nucleic acids.

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NTC Principal Investigators and Researchers

Philip J. Brown, an Assistant Professor of Materials Science and Engineering at Clemson, joined the faculty in 2002. He earned a B.Sc. in textile chemistry in 1987 and a Ph.D. in polymer and hollow fiber membranes in 1991, both from the School of Textile Industries at Leeds Univ. (England) and later lectured there after a fellowship at Herriot Watt Univ. (Scotland). Phil's research interests include photonic crystal fibers, application of UV laser radiation to textile substrates, hollow fiber membranes for gas separation, phase inversion and melt, dyeing and finishing, electrospinning of fibers as well as wet, melt and dry jet wet spinning of fibers.

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David A. Bruner, Director of Technology Development at [TC]², joined the staff in 1995. David earned a BS in mechanical engineering from Univ. of Missouri Rolla in 1983 and a Ph.D. in mechanical engineering from Univ. of Kentucky in 1993, specializing in nonlinear finite element analysis. For 12 years David was in development engineering and management at IBM (input devices and notebook computers), Ericsson (cellular telephones) and Brother Int. (ink jet products). His research interests include full body scanning and automatic measurement extraction software.

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David Bucknall, an Associate Professor in Polymer, Textile and Fiber Engineering at Georgia Tech, joined the faculty in 2004, after 6 years as Lecturer at Univ. of Oxford (UK). David earned a B.Sc. Hons in Chemistry from Nottingham Univ. (UK) in 1988 and a Ph.D. and DIC from Imperial College (UK) in 1991. After a postdoc at MPI for Polymer Research in Mainz (Germany) he spent 7 years as senior research scientist at the Rutherford Appleton national laboratory (UK). His research interests include polymer surface and interfaces, ink-jet technology, neutron scattering, microfluidics and polymers for medical applications.

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Karen J. L. Burg, an Associate Professor of Bioengineering at Clemson, joined the faculty in 1999 after post-doctoral research in tissue engineering at Carolinas Medical Center. Karen earned a B.S. in chemical engineering from NC State in 1990, and an M.S. (1992) and Ph.D. (1996), both in bioengineering from Clemson. Her research interests include absorbable polymers and tissue engineering.

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Gisela Buschle-Diller, an Associate Professor of Textile Engineering at Auburn, joined the faculty in 1995. Gisela earned a Ph.D. in chemistry from the Univ. of Stuttgart (Germany) in 1989 with postdoctoral work at Univ. of California, Davis, in textiles and clothing. She worked at Berlin's Fraunhofer Institute for Applied Polymer Science and Rathgen Research Laboratories. Her research interests include enzyme technology, dyeing and finishing, natural fibers, electrospinning of biomedical fibers, environmental issues and the history of dyes and textile materials.

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NTC Principal Investigators and Researchers

Neil Cahill, Professor and Vice President of ITT, joined the faculty in 1974 after working 13 years in industry with various textile companies. Neil earned his B. S. from the University of Massachusetts-Dartmouth in 1961 and his M. S. from the ITT in 1964. His research interests include design of World Class manufacturing organizations, global competitiveness and profitability engineering.

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Carol G. Carrere, a former Visiting Assistant Professor of Textile & Apparel Technology & Management at NC State, earned a Ph.D. in textile technology management there in 1997. Carol's research interests include standards development for 3-D body scanning, automated garment development, and modeling and analysis of manufacturing elasticities for sewn product replenishment.

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Paul Calvert, a Professor of Materials and Textiles at UMass Dartmouth, joined the faculty in 2003, from the Materials Science and Engineering faculty at Univ. of Arizona since 1988. He earned a Ph.D. in materials engineering at M.I.T. in 1971 and a M.A. in materials science at Cambridge Univ. (England) in 1971. Paul was a Polymer Science lecturer at Univ of Sussex 1972-88 and a Visiting Professor at the M.I.T. Ceramic Processing Research Lab in Polymer Science 1983-88. His research interests include bio-mimetic materials, conducting polymers, polymer-ceramic composites, solid freeform fabrication and diffusion and permeability in polymers.

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Hugh M. Cartwright, a Lecturer and Laboratory Officer in Chemistry at Oxford Univ. (UK), joined the faculty in 1984. He earned a B.Sc. in 1969 and a Ph.D. in 1972 in chemical sciences at the Univ. of East Anglia (Norwich Eng.). Hugh is the author of Applications of Artificial Intelligence in Chemistry. His research interests center on the use of artificial intelligence in scientific problems, such as the dispersal of airborne pollution, optimization of organic synthesis, industrial process control and development, drug design, bacterial growth, bio-informatics and the assessment of medical data.

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Wallace Carr, a Professor in Polymer, Textile and Fiber Engineering at Georgia Tech since 1980, earned a BME at Univ. of Virginia in 1966 and a Ph.D. in mechanical engineering from Georgia Tech in 1973. Before joining the faculty, "Chuck" was a senior research engineer at Monsanto. His research interests include digital printing of textiles (ink jet and electrophotography); thermal sciences in industrial fiber and textile processes; and polymer processing,

C92-G05, C92-S06, C95-G01*, C95-G02*, C96-G02, C97-G11, F98-G15, C98-G30*, C99-GT08*, C02-GT07*, C05-GT07*
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Nancy Cassill, a Professor in Textile and Apparel Technology and Management at NCState, joined the faculty in 2000 following university positions at UNC-Greensboro and Univ. of North Texas. Nancy earned a Ph.D. from UT-Knoxville in 1986, and a M.S. from Indiana Univ. in 1976 and B.S. from Purdue in 1973. Her research interests include global trade and textile marketing (with retail strategies), textile product development and textile market research.

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G. S. Peter Castle, a Professor Emeritus and Adjunct Research Professor in Electrical and Computer Engineering at Univ. of Western Ontario (London) where he earned a B.E.Sc. (1961) and Ph.D. (1969) in electrical engineering. Peter also earned an M.Sc. (Eng) and D.I.C. from Imperial College, Univ. of London in 1963. His research interests focus on applied electrostatics including electrostatic precipitation, electrostatic painting and coating, electrophotography and electrostatic separation.

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NTC Principal Investigators and Researchers

Elliot Chaikof, a Professor and the John E. Skandalakis Chair of Dept of Surgery at Emory Univ, joined the faculty in 1992. Elliot earned an MD at Johns Hopkins Univ. School of Medicine in 1982 and a PhD in chemical engineering at MIT in 1989. His research interests include Endovascular treatment of abdominal aortic aneurysms; aortic surgery; carotid artery, renal artery and peripheral vascular arterial disease; therapeutic angiogenesis for peripheral atherosclerotic disease; bioengineering

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Song-Yul (Ben) Choe, an Associate Professor in Mechanical Engineering at Auburn, joined the faculty in 2003 from being Research Professor at the Center for Advanced Vehicular Systems at Mississippi State. He earned a B.S. from Han-Yang Univ. (Seoul) in 1981 and a Ph.D. from Technical Univ. of Berlin (Germany) in 1991, both in electrical engineering. Then, Ben held research positions at Mannesmann/Rexroth, Machine Tool Machinery and Director for Advanced Automotive Technology at Hyundai Motors.

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Julie Chen, Associate Professor of Mechanical Engineering and Co-Director of the Advanced Composite Materials and Textile Research Laboratory at UMass Lowell since 1997, earned a Ph.D. from MIT in mechanical engineering in 1991, then became Assistant Professor, Aerospace and Mechanical Engineering at Boston University until 1997. Julie's research interests include mechanical behavior and deformation of fiber structures, fiber assemblies and composite materials.

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Douglas B. Chrisey, a Professor of Materials Science at Rensselaer Polytechnic Institute, joined the faculty in 2006. He earned his Ph.D. in Engineering Physics from The University of Virginia in 1987 and a B.S. in Physics from the State University of New York at Binghamton in 1983. He was an Office of Naval Technology postdoctoral research associate at the US Naval Research Laboratory in 1987 before joining as a staff member in 1988. Doug's research interests include novel laser-based approaches to process materials ranging from passive and active electronics to biomaterials for tissue engineering.

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Gordon Churchward, an Associate Professor of Microbiology & Immunology at Emory Univ., joined the faculty in 1985. Gordon earned a B.Sc. in biochemistry in 1972 at the Univ. of Newcastle upon Tyne (UK) and a Ph.D. in genetics in 1975 at the Univ. of Leicester (UK). His research interests include antibacterial agents, antimicrobial resistance its dissemination and bacterial pathogenesis.

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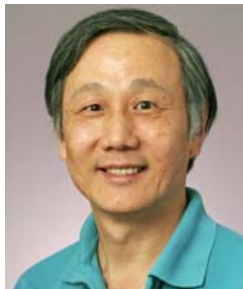
Chih Chung Chu, a Professor in Biomedical Engineering at Cornell, joined the faculty in 1978 after 3 years at Univ. of Alabama - Birmingham. C.C. earned a Ph.D. in polymer chemistry from Florida St in 1976 and a B.S. in chemistry Tamkang Univ. (Taiwan) in 1968 and served from 1986-90 as Visiting Research Associate Professor of Surgery at the Hahemann Univ. School of Medicine (Philadelphia). His interests include basic research in polymer/fiber morphology and degradation mechanisms and applied research in biomedical polymers and fibers for human body repair.

M01-CR01*, M03-CR04*, C04-PH02s, C05-PH01

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George Chumanov, an Assistant Professor of Analytical Chemistry at Clemson, joined the faculty in 1999 after 5 yrs as Research Scientist at Ames Laboratory USDOE. George earned his B.S. at Moscow Engineering Physics Institute in 1982 and his Ph.D. in optics and spectroscopy of biomolecules from Moscow State Univ. in 1988 followed by postdoctoral research at Iowa State Univ. His research interests include preparation and properties of nanoparticles, including 1-, 2- and 3-D structures and development of new materials and devices for environmental and biomedical diagnostic applications.

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Lenda Jo Connell, a Professor in Consumer Affairs at Auburn, joined the faculty in 1971 after receiving a masters degree in clothing and textiles from Louisiana State Univ. In 1990, she earned a Ed.D. in adult education from Auburn. For 15 years she was an Extension Resource Management Specialist for the textile and apparel industry and now coordinates the Apparel Production Management program. Lenda Jo's research interests include electronic sourcing, apparel product development and consumer preference style testing.



I92-A05*, I92-A06, I94A10T*, I94-A13, I95-A19*, I95-A20, I98-A7, I98-A08*, I98-A09, S01-AC27*, S04-AC01*, S06-AC03*

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Fred L. Cook, a Professor and former Director of the School of Polymer, Textile & Fiber Engineering at Georgia Tech, has been on the faculty since he received a Ph.D. there in organic-polymer chemistry in 1975 after being a polymer research chemist at DuPont. He is a consulting chemical editor of *Textile World* magazine, and vice-president of the National Council for Textile Education. Fred's research interests include textile/polymer chemistry, sustainable textile chemical application processes and carbon fibers.



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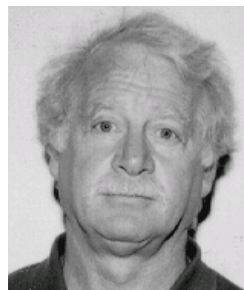
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Jerome J. Cuomo, a Professor of Materials Science and Engineering at NC State since 1993, is a member of the National Academy of Engineering and received the National Medal of Technology in 1995. He holds a Ph.D. in physics in 1979 from Odense Universitet (Denmark) and a M.S. in physical chemistry from St. Johns in 1960. Jerry had a 30-year career at IBM culminating as manager of Materials Processing. His research interests include enhanced plasma processes.



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