

NTC Principal Investigators and Researchers

Yassir Dar, a Teaching/Research Assistant in Textile Science at UMassD, earned a B.S. from UMIST (Manchester UK) in 2000. Yassir has work experience with Proctor & Gamble and Ciba Specialty Chemicals. His research interests include novel reactive and disperse dye synthesis, quality control of dyes, nanocomposites fibers and color science.

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Anusua Datta, an Associate Professor of Economics and Statistics at PhilaU, joined the staff in 2000. Anu earned an M.A. at Osmania Univ. (Hyderabad, India) in 1987 and a Ph.D. in economics at Univ. of Wisconsin (Milwaukee) in 1999, both in economics. Her research interests include market structure, productivity and R&D, industry studies and macroeconomic growth.

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Darren M. Dawson, a Professor in Electrical and Computer Engineering and the Center for Advanced Manufacturing at Clemson, joined the faculty in 1990 when he received a Ph.D. in electrical engineering from Georgia Tech. After receiving a B.S. in 1984 he was a control engineer at Westinghouse until 1987. Darren's research interests include nonlinear based robust, adaptive and learning control for electromechanical systems including robot manipulators, motor drives, magnetic bearings, flexible cables, flexible beams and high-speed transport systems.

F98-S04, F01-CL04, M03-CL07s, M04-CL05

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Shawn Deaton, a Research Associate in the Textile Protection and Comfort Center at NC State, earned an M.S. in textiles at NC State in 2000. Shawn's research interests include protective and comfort performance testing of textile materials and clothing, instrumented manikin.

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Alan Donaldson, a Professor of Textile Design in Textile and Apparel Management at NC State, joined the faculty in 1976. He earned a B.Sc. (with Honors) from the Scottish College of Textiles in 1966 and did post-graduate study at La Escuela de Diseño Textil (Barcelona). Alan has been a textile designer for Hayward/Schuster Woolen Mills (East Douglas MA), Llorens y Torra (Spain), Guilford (New York) and Courtaulds. In 1973 he was appointed head of Textile Design at Univ. of Manchester Institute of Science and Technology. He is a Fellow of the Royal Society of Arts and the North Carolina Japan Center. His research interests include computer integrated design systems for the textile industry.

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J. Lewis Dorrity, an Associate Professor of Textile & Fiber Engineering at Georgia Tech, joined the faculty in 1988. He received a MS in electrical engineering at the Air Force Institute of Technology in 1965, then served 6 years in the U.S. Air Force, leaving as a Captain. Lew then earned a Ph.D. in electrical engineering from Clemson in 1973 and spent 15 years at Greenwood Mills rising to vice-president of Research and Quality. His research interests concentrate on instrumentation and control of textile processes.

I94-G02*, I94-S04, I95-G02*, F98-G15, F01-GT06

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B. Christopher Dougherty, Associate Dean of Graduate and Continuing Studies at PhilaU joined the staff in 1997. He earned a Ph.D. in higher education from Penn State in 2000, an M.S.Ed. in Higher Education from Univ. of Pennsylvania in 1990 and a B.A. in English from Saint Joseph's Univ. in 1989. Chris also teaches in the Graduate Education Program at Eastern College. His research interests include assessment of adult learners and the connections between education and the workplace.

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Michael J. Drews, a Professor of Textiles, Fiber and Polymer Sciences in Materials, Science and Engineering at Clemson, joined the faculty in 1974. Mike earned a B.S. in chemistry from the Univ. of Wisconsin and a Ph.D. in physical chemistry from the Univ. of North Texas in 1971. His research interests include instrumental methods to characterize polymers, dense gas fluids, polymer services and polymer-based biomaterials.

C92-A04, C92-C04*, F92-S12, M94-C04, F94-C02*, M95-S22, C95-C03*, C99-CL03*, C01-CL01*, C04-CL06, M04-CL07, C06-CL01*

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Jeffrey W. Eischen, an Associate Professor of Mechanical and Aerospace Engineering at NC State since 1986, received a Ph.D. in Applied Mechanics from Stanford University. Jeff has been involved with the College of Textiles in interdisciplinary research for several years. His research interests include finite element numerical analysis of fabric drape and manipulation, dynamics and control of flexible mechanisms and stress analysis in layered microelectronic media.

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Yehia E. El Mogahzy, a Professor of Textile Engineering at Auburn, joined the faculty in 1986 when he received a Ph.D. in fiber and polymer science from NC State. He also holds a M.S. in textile engineering from Alexandria University (Cairo). Yehia's research interests include statistical analysis, quality control, fiber-to-yarn engineering and physical/mechanical properties of fibers, yarns and fabrics.

F92-A02, M92-A01*, I95-A11, F96-A03,

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Debra Jean Ellis, an Assistant Professor of Biology at UMass Dartmouth since 1996, received a B.A. in chemistry in 1983 from Wellesley College and a Ph.D. in marine and estuarine environmental sciences with specialization in microbial and molecular ecology in 1996 from Univ. of Maryland. Debra's research interests include saltmarsh and soil microbial ecosystems; biotechnological applications in agriculture, textiles and aquaculture; microbial bioremediation; and molecular systematics of fungi, plants and aquatic animals.

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Michael S. Ellison, a Professor of Textile and Polymer Science at Clemson, joined the faculty in 1984. Mike received a Ph.D. in polymer fiber physics at the Univ. of California (Davis) in 1982. His research interests include structure/property relationships in melt extrusion of fibers, tensile and non-tensile loading during mechanical property testing of fibers, electrical properties of polymers and application of chaos theory to polymer physics.

M92-A01, M93-C08*, M94-C04*, M94-S02, M96-C01*, F98-C04*, M98-CL05*, M01-CL01, M02-CD05, M02-CL04*, M04-CL11, M05-CD01

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David J. Elton, an Associate Professor in Civil Engineering at Auburn since 1985, received a Ph.D. in civil engineering at Purdue in 1982 and a M.S. in geotechnical engineering at Utah State in 1977. From 1982-5, he was an Assistant Professor of civil engineering at The Citadel. Dave's research interests include geotechnical engineering, expert systems, geosynthetics, highway engineering, earthquake engineering and fuzzy sets.

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Basil G. Englis, who holds the Richard Edgerton Chair in Business Administration at Berry College, joined the faculty in 1996. He earned a B.A. in psychology/sociology from CUNY in 1978 and a Ph.D. in experimental psychology from Dartmouth in 1983. Basil was an Assistant Professor at Clarkson and Rutgers Universities and an Associate Professor at Penn St and at the University of Umeå (Sweden), where he was also a Fulbright Scholar. His research interests include mass media and consumer socialization, political marketing, consumer knowledge acquisition and cognitive representation of lifestyle-related product groupings.

I97-A11, S00-AC16, S01-AC21, S03-AC01, S05-AC02, S06-AC01, S06-AC04

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Paula Englis, an Associate Professor of Management at the Campbell School of Business at Berry College, joined the faculty in 1999. She earned a Ph.D. in strategic management from Univ. of Memphis in 2000 and an MBA in 1992 from the Univ. of Tennessee-Chattanooga. Paula has taught at Univ. of Tennessee-Chattanooga, Univ. of Memphis, and Georgia State Univ. Her research interests include strategic management with an international emphasis including application in entrepreneurship, technology and knowledge management, and value chain management.

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Qinguo Fan, an Associate Professor of Textile Chemistry at UMassD, joined the faculty in 1998 from a textile chemist position at Novel Textile Ltd. (Mauritius). Qinguo earned his Ph.D. in color chemistry from Leeds (UK) in 1995 and an M.S. in textile chemistry in 1988 from China Textile Univ. His research interests include textile chemistry, color science, polymer and environmental compliance of textile wet processing.

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Peter Farber, a Professor at Niederrhein Univ. (Germany), joined the faculty in 1992 from being a R&D Manager at Kleinewefers Textilmaschinen GmbH where he had been for 6 years. Peter earned a Dipl.-Ing. in 1982 and a Ph.D. in 1986, both in mechanical engineering from Aachen Univ. He co-founded the IMH - Institute for Modeling and High Performance Computing at Niederrhein in 2005. His research interests focus on fluid mechanics subjects with a bias towards the industrial use of Computational Fluid Dynamics, especially in textiles.

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Shu-Cherng Fang, the Walter Clark Professor of Operations Research and Industrial Engineering at NC State, earned a B.S. at National Tsing Hua Univ. (Taiwan), an M.S. at Johns Hopkins Univ., both in mathematics, and a Ph.D. in Industrial Engineering and Management Science from Northwestern Univ. Before joining NC State, he worked on manufacturing process optimization and telecommunication network design for AT&T. His current research interests are operations research and systems optimization, such as analysis and modeling of the apparel pipeline.

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Ramsis Farag, a Visiting Professor in Textile Engineering at Auburn and an Assistant Professor of Textile Engineering at Mansoura Univ. (Egypt), joined the faculty in 1994. Ramsis earned a B.Sc. in 1982 and an M.Sc. in 1987, both in textile engineering from Mansoura Univ., and a Ph.D. in technology of textile materials from the Moscow Textile Academy in 1993. His research interests include fiber opening and blending, yarn characterization, computer vision techniques and comfort.

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Bruce K. Fink, Chief of Ordnance Materials in the Army Research Laboratory, Aberdeen Proving Ground (Maryland), joined the staff in 1994. Bruce earned his BS in civil engineering in 1985 and an M.S. in applied mechanics in 1987 from Univ. of Nebraska and a Ph.D. in materials science and engineering from Univ. of Delaware in 1991. His research interests include the mechanics and processing of composite materials.

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Rob Fleming, an Associate Professor in Architecture and Design at PhilaU, joined the faculty in 1996 upon receiving an M.Arch. from Virginia Tech and the Washington Alexandria Architecture Consortium. With a B.Arch. from Temple (1987) Rob became a project designer at Francis Cauffman Foley Hoffmann Architects and is a registered architect in PA. He co-founded and is co-director of the Engineering and Design Studio research center. His research interests include impact of the built environment upon micro-climates and the larger environment.

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Sandra Forsythe, Wrangler Professor of Consumer Affairs at Auburn, joined the faculty in 1991 after five years at Miami Univ. of Ohio and four years at Univ. of Georgia. She earned an M.S. from Virginia Tech in 1976 and a Ph.D. in textiles and clothing, marketing and consumer economics in 1981 from Univ. of Tennessee. She was editor of *Clothing and Textiles Research Jour.* 1996-2000 and currently serves as President of the American Collegiate Retailing Association. Sandra's research interests include consumer behavior, focusing on Internet retailing, commercial website usability and brand image and perception formation.

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Stephen Foulger, an Associate Professor of Polymer Science in Material Science and Engineering at Clemson, joined the faculty in 1999 after being a Polymer Scientist responsible for new material development in power and fiber optic cable at Pirelli Cables & Systems. He earned a Ph.D. in materials science at M.I.T. in 1996. Stephen's research interests include developing polymer composites and blends with unique optical and electrical characteristics and conductive polymer blends and their application in sensor technology.

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Alex Fowler, an Associate Professor of Mechanical Engineering at UMassD since 1994 after earning a Ph.D. in mechanical engineering from Duke and a B.A. in philosophy in 1987 from Wesleyan Univ. Alex's research interests include heat transfer with specific applications involving porous media, computational fluid dynamics, multiphase systems and bioengineering.

F98-D04, M00-MD03*, F03-MD13s, F03-MD15, F05-MD01, F06-MD04

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Celia Frank, an Assistant Professor of Fashion Design at PhilaU since 1988 and CAD coordinator for their Fashion Design Lab, earned a B.S. in fashion design from Drexel in 1981. Celia has directed design for several leading women's wear companies as well as her own, Alexandre Caan. Her research interests include utilization of CAD in apparel design, manufacturing and marketing process, sales forecasting using fuzzy logic, and fashion trend forecasting and analysis.

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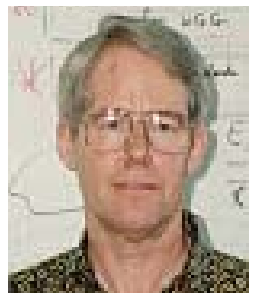
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W. Barrie Fraser, a Senior Lecturer in the School of Mathematics and Statistics at the University of Sidney (Australia), joined the faculty in 1965. He received a Ph.D. in applied physics from Harvard in 1965 and an M.E. in civil engineering from the University of New Zealand in 1961. In 1990 Barrie was a Visiting Scholar at NC State. His research interests include mathematical modeling, dynamics of moving threadlines, theory of ring spinning and transformation toughening of ceramics.

F94-S09, F97-C05, F01-CL04

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NTC Principal Investigators and Researchers

Harold S. Freeman, a Professor of Dye-stuff Chemistry at NC State, joined the faculty in 1982. He received a Ph.D. in organic chemistry from NC State in 1981 while working as an organic chemist at Burroughs-Wellcome. Harold's research interests include synthetic pigment and dyestuff chemistry, especially computer-aided design, purification, photodegradation, environmental interactions and instrumental analysis. C92-S02*, M95-S22*, C98-S04*, C99-AE07, C02-PH03



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Margaret W. Frey, the Lois and Mel Tukman Assistant Professor of Human Ecology at Cornell since 2002, earned a B.S. in chemical engineering at Cornell in 1985, an M.S. in fiber science at Cornell in 1989 and a Ph.D. on fiber and polymer science from NC State in 1995. She was previously a Manager of Material Development at Champlain Cable Corp. (1998-2002) and held technical positions at Johnson Filaments, Helene Curtis Ind. and TRI. Margaret received the SUNY Chancellors Award for Excellence in Teaching in 2005. Her research interests include electrospinning nanofibers from cellulose. M05-CR02*, M08-CR01*, M08-CR05*



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Peter Friedman, an Assistant Professor of Mechanical Engineering at UMass Dartmouth, joined the faculty in 2002 following 3½ years as a U.S. Navy submarine officer and 7 years teaching at the U.S. Naval Academy. Peter earned a B.S. (1984) and an M.S. (1991), both from Georgia Tech, and a Ph.D. from Johns Hopkins Univ., all in mechanical engineering. His research interests include experimental fluid mechanics particularly behavior of negatively buoyant jets and dispersion of droplets in a turbulent flow. F05-MD09



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Susan Frostén, an Assistant Professor of Architecture at PhilaU since 1996, earned a B.A. from Barnard College in 1985 and a M.Arch. from Columbia University in 1988. Then, she worked as a project architect for several firms in New York City, including SOM, Rafael Vinoly Architects and William McDonough and Partners, as well as her own firm. She is a registered architect in New York. Her research interests include environmental sustainability and technology relative to design culture. S03-PH01



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Brian George, an Associate Professor at PhiladelphiaU School of Textiles and Materials Technology since 1999, earned a Ph.D. in fiber and polymer science in 1999 and a B.S. in textile science in 1994, both at NC State. Brian's research interests include instructional methods, nonwovens, recycling and fiber extrusion S99-PH01, C02-PH03*, F06-PH03



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Subhas Ghosh, a Professor and former Director of Research at ITT, joined the faculty in 1976. He earned a B.S. in textile technology in 1967 from Calcutta University and a M.S. and Ph.D. in fiber science in 1994 from the University of Manchester (ENG). He was also a Quality Control Director at National Spinning Company (North Carolina). Subhas' research interests include near infrared spectroscopy, textile material characterization, polymer recycling, and filament processing. F99-AE13



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Tushar K. Ghosh, a Professor in Textile and Apparel Management at NC State, joined the faculty in 1988 after earning a Ph.D. there in fiber and polymer science in 1987. Tushar also has a B.Sc. in textile technology from Univ. of Calcutta (India) in 1975 and a M.Tech. in textile engineering from Indian Inst. of Technology, New Delhi in 1978. His research interests include technology of fiber assemblies, characterization of fibrous materials, industrial/technical textiles and electrotexiles. I92-S03, F94-A08, F94-S09*, F97-C05, I96-A09, F02-NS05*, F04-NS26, M08-NS08*



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Bhuvnesh Goswami, an emeritus Professor of Textile and Polymer Science at Clemson, joined the faculty in 1984. He received his Ph.D. in textile technology from Manchester (England) in 1966 and a M.S. in textiles from Bombay University (India) in 1963. Bhuvnesh is past president of The Fiber Society, and a Fellow of the American Society of Mechanical Engineers. His research interests include dynamics of fiber processing, fiber/yarn fatigue, textile structures for composites and fiber, yarn and fabric structural mechanics.

F02-C02*, F92-S12, M94-S02, F94-A08, F94-S09, F95-C09, F97-C05*, F98-C04, F98-G15, F01-CL04*, F01-GT06, M03-CL07s, M04-CL05, F06-CL02, M04-CL05, F06-CL02
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Muthu Govindaraj, a Professor and Director of Textile Graduate Programs at PhiladelphiaU since 1995, earned a Ph.D. in mechanical engineering at the Univ. of Liberec (Czech Republic) in 1982. He also earned a MTech. in textile engineering at the Univ. of Madras (India). Muthu was a machine design engineer in industry in India, a post-doctoral research associate at NC State and an Assistant Professor at Cornell. His research interests include fabric mechanics and on-line control systems for textile and apparel machinery.
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Yasser A. Gowayed, a Professor at Auburn, joined the faculty in 1992 when he received a Ph.D. in fiber and polymer science at NC State. He also earned an M.S. in materials engineering from the American Univ. (Cairo) in 1989 after an 8-year career in industry as a structural designer and civil engineer. Yasser's research interests include modeling and analysis of textile composites, image analysis, geotextiles and re-utilization of solid wastes.
F92-A02, F92-S12, F94-A08, F95-A24*, I95-A11, F98-A04, I96-A09, F00-PH05, S01-PH07, C02-AE08*, M05-AE11*
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Christine S. Grant, an Associate Professor of Chemical Engineering at NC State, joined the faculty in 1989 upon earning an M.S. and Ph.D. at Georgia Tech. Christine also holds a Sc.B. in chemical engineering at Brown Univ. (1984). Her research interests include surface and environmental science, mass transfer and tribology.
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Edward Grant, a Professor in Electrical and Computer Engineering and Director of the Center for Robotics and Intelligent Machines at NC State, joined the faculty in 2000. He earned a B.S. from Dundee College of Technology (Scotland) in mechanical engineering in 1969, an M.Eng. from Univ. of Sheffield (England) in fluid power control in 1972, and a Ph.D. in computer science from the Univ. of Strathclyde (Scotland) in 2000. Eddie's research interests include robotics, sensor networks and rehabilitation engineering.
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Richard V. Gregory, Dean of the College of Sciences at Old Dominion Univ. since 2003, was a Professor and Director of the School of Material Science and Engineering at Clemson, joined the faculty in 1990. He earned a B.S. in chemistry from Old Dominion in 1980 and a Ph.D. in physical chemistry at Clemson in 1984 and continued with postdoctoral work in polymer spectroscopy whereupon he joined the research staff at Milliken. Dick is thrust leader of NSF Center for Advanced Fibers and Films, and on the editorial board of Macromolecular Materials and Engineering. His research interests include the formation, characterization and potential industrial applications of conductive polymers and the interaction of ultraviolet radiation with polymers.

M92-C08*, M95-C06*, M95-C04*, M98-C01*, M00-CL07, M01-CL01, M01-CL03, M01-CL07*, M06-CL07
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Anselm Griffin, Professor and Chair of Polymer, Textile and Fiber Engineering at Georgia Tech in 2002 after a 27-year career at Univ. of Southern Mississippi where he rose from Asst. Professor to Provost. Andy earned a B.S. from Mississippi College in 1969 and a Ph.D. in organic chemistry from Univ. of Texas (Austin) in 1975. He was founding Director of the Melville Laboratory for Polymer Synthesis at Univ. of Cambridge (U.K.) from 1990-93 and was named a 'Polymer Science Pioneer' by Polymer News. His research interests include supramolecular polymers, liquid crystalline elastomers and negative Poisson's ratio polymers.

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Qing Liang Gu, a Professor of Business at Dong Hua Univ. (China Textile Univ.), joined the faculty in 1988. He earned a B.S. in textile engineering from China Textile Univ. in 1977 and an MBA at Jiao Tong Univ. (Shanghai) in 1983. He was a visiting Scholar at Univ. of Maryland in 1986-7 and at Auburn 1994-5. Qing Liang co-authored in Chinese Fashion Marketing, Consumer Behavior of Textile & Apparel. His research interests include fashion marketing, consumer behavior and textile economics.

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Francois M. Guillot, a Senior Research Engineer at Georgia Tech, joined the faculty in 2000. Francois earned a Diplome d'Ingenieur (B.S.) in mechanical engineering from the Univ. of Technology of Compiegne (France) in 1993 and an M.S. in 1995 and Ph.D. in 2000, both from Georgia Tech in mechanical engineering. His research interests include acoustic material measurements, piezoelectric polymers, piezoelectric ceramics and acoustic sensor design.

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Melih Gunay, a Software Engineer at HueMatrix since 2006 following bioinformatics work at Syngenta. Melih earned a B.S. in textile engineering from Istanbul Technical Univ. in 1997, an M.S. in computer science in 2000 and a Ph.D. in fiber and polymer science in 2005, both from NC State. His research interests include on-line and off-line measurements of yarn and fabric qualities, modeling of 2-D textile structure irregularities and mathematical simulation and visualization of textile structures.

S06-NS02

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Bhupender S. Gupta, a Professor of Textile Materials Science at NC State, joined the faculty in 1966. Bhupender holds a Ph.D. in textile physics from the University of Manchester (England) in 1963. After receiving a B.S. from Punjab University, he was a supervisor in the Delhi Cloth and Modi Textile Mills (India). His research interests include biomaterials, structural mechanics, absorbency and physical, mechanical and rheological properties.

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