

NTC Principal Investigators and Researchers

Howard Maibach, a Professor of Dermatology at UC San Francisco since 1973, earned his M.D. in 1955 from Tulane. Howard's research interests include dermatopharmacology, physiology and toxicology.

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Davinder Malhotra, a Professor of Finance at PhilaU, joined the faculty in 1993 upon earning a Ph.D. in finance at Univ. of Alabama. Davinder received the President's Award for Excellence in Teaching at PhilaU in 1999. His research interests include interest rate swaps, currency swaps, credit derivatives, mutual funds and application of neural network and neuro-fuzzy techniques in finance.

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Gopinath Mani, a Research Assistant in Textile Sciences at UMass Dartmouth, earned a B.Tech in Textile Technology from Anna Univ. (Chennai, India) in 2000. His research interests include nanoparticles and dispersion in polymers, nanocomposite fibers and characterization of these materials, dyeing polyolefin fiber and color chemistry.

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William R. Marcotte, Jr, an Associate Professor of Biological Sciences and Genetics at Clemson, joined the staff in 1992. He received his B.S. in biochemistry in 1980 from Virginia Polytech and his Ph.D. in microbiology from Virginia in 1986. He was a Visiting Scientist at DuPont from 1986-9 and a Research Associate at North Carolina from 1989-92. Bill's research interests include molecular genetics and molecular physiology of gene and protein expression in plants.

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No
photo
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R. Kenneth Marcus, a Professor of Chemistry at Clemson, joined the faculty in 1986 upon receiving a Ph.D. in analytical chemistry from Univ. of Virginia. Ken also earned a B.S. in chemistry and physics from Longwood College (Farmville VA) in 1982. His research interests include instrumentation to solve higher-order analytical problems, such as developing polymer fiber stationary phases to provide high surface areas with efficient solution flow during liquid chromatography separations of proteins.

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Kavita Mathur, a graduate student in Fiber and Polymer Science, earned a M.S in Textile and Clothing in 2002 from SNDT Women's Univ. (India). Her research interests include Computer Integrated Designing and Color Science.

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Sheldon W. May, the Associate Director, Institute for Bioengineering and Bioscience, and Regents' Professor of Chemistry and Biochemistry at Georgia Tech, earned a B.S. in 1966 from Roosevelt Univ. and a Ph.D. in chemistry from Univ. of Chicago in 1970. Then he joined Exxon, where he was a founding member of the first industrial biotechnology group in the U.S. Sheldon is editor of *Enzyme and Microbial Technology*, and of the Biochemical Engineering section of *Current Opinion in Biotechnology*. His research interests include enzyme technology and applications of biotechnology in materials science.

M97-G02*, M99-GT11*

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NTC Principal Investigators and Researchers

Marian Gayle McCord, an Associate Professor at NC State since 1994 when she received a Ph.D. in textiles and polymer science at Clemson, also earned a Sc.B. in biomedical engineering at Brown and a M.S. in bioengineering at Clemson. Marian's research interests include torsional properties in high performance fibers, barrier fabrics and comfort of textile materials.

M94-C04, F95-S24, I98-S08, C99-NS09*, F99-NS02, S06-CD01

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Joey L. Mead, a Freudenberg-NOK Assistant Professor of Plastics Engineering at UMass Lowell, joined the faculty in 1996. Joey earned a S.B. in chemistry in 1981 and a Ph.D. in polymers in 1986, both at M.I.T., followed by a 10-year career as a materials engineer at the U.S. Army Research Lab (Watertown MA). Her research interests include elastomers (their mechanical behavior and use in barrier materials), interfacial properties of fiber reinforced composites, rubber recycling and nano-plastics processing.

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David L. McDowell, the Carter N. Paden Jr. Distinguished Chair and Regents' Professor of Mechanical Engineering and Material Science and Engineering at Georgia Tech, joined the faculty in 1983 upon earning an M.S. and Ph.D. in mechanical engineering from Univ. of Illinois (Urbana). Dave also earned a B.S. in mechanical engineering at Nebraska in 1979. His research interests include models for nonlinear and time dependent behavior of materials in the presence of microstructure evolution, finite strain effects, cyclic plasticity, multiscale modeling, and multifunctional design of materials.

F02-GT04, M06-GT03

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Tesfay Meressi, an Associate Professor and Chairperson of Mechanical Engineering at UMass Dartmouth, joined the faculty in 1993 upon earning a Ph.D. in mechanical engineering at UC Santa Barbara. Tesfay also earned a B.S. degree in mechanical engineering from Univ. of Addis Ababa (Ethiopia) in 1985, then he became an Assistant Lecturer there. His research interests include control of electromechanical systems, fuzzy logic and learning control design, robotics, automation and MEMS

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Philip J. McMullan, a Research Scientist in Polymer, Textile and Fiber Engineering at Georgia Tech, joined the staff in 2002. He earned a B.Sc in chemistry from Univ. Edinburgh (UK) in 1991 and a Ph.D. in natural science from Univ. of Cambridge (UK) in 1998. Philip then became a Research Scholar at MIT, followed by positions at Syngenta AG (UK) and Univ. of Southern Mississippi. His research interests include non-covalent polymer self-assembly, auxetic materials and liquid crystalline elastomer

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Alexander A. Messinger, a Professor in Architecture and Interior Design at PhilaU earned a B.Arch. in architecture & town planning at Technion-Israel Institute of Tech. in 1968 and an M.Arch. in architecture & urban design and an M.C.P. in city planning, both at Univ. of Pennsylvania in 1970 and an M.S. in scientific research in architecture in 1984. Alex was named Fellow of the University Science Center (Philadelphia) in 1978. His research interests include light weight structures, fabric structures, housing systems and energy conservation architecture.

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Dimitris N. Metaxas, a Professor and Director of the Center of Computational Biomedicine Imaging and Modeling at Rutgers Univ., joined the faculty in 2002 on leave from being director of the Vision, Analysis and Simulation Technologies Lab at the Univ. of Pennsylvania where he had been since 1992. Dimitris earned a Diploma in electrical engineering from National Technical Univ. of Athens in 1986, an M.Sc. in computer science from Univ. of Maryland in 1988 and a Ph.D. in computer science from the Univ. of Toronto. His research interests include physics-based modeling techniques with applications to computer vision, graphics and medical image analysis.

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Stephen Michielsen, an Associate Professor NC State, joined the faculty in 2004 after 8 years at Georgia Tech and 15 years researching polymer and fiber physics problems at Du-Pont. Steve earned a B.S. in chemistry in 1972 from S.U.N.Y. and a Ph.D. in physical chemistry from the Univ. of Chicago in 1979; he did postdoctoral research at Stanford. Steve's research interests include fiber surface modification, fiber strength, thermomechanical properties of fibers and polymers, fiber/polymer physics and polymer blends.

C98-A17, C99-NS04, M01-GT01*, C02-GT09*, M08-NS01*

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Matt Millkevitch, in Organic Chemistry

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German Mills, an Associate Professor of Chemistry at Auburn since 1995, joined the faculty in 1989. He earned a Ph.D. in physical chemistry from the Technical University of West Berlin in 1985 and a MS in inorganic chemistry from the University of Chile in 1981. "Jimmy" has held postdoctoral positions at Caltech and Argonne National Lab. His research interests include synthesis and properties of nanometer-sized metal and semiconductor particles, "smart" materials and transformation of toxic chemicals.

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Sergiy Minko, the Egon Matijevic Professor of Chemistry at Clarkson Univ. (Potsdam NY), joined the faculty in 2003 from the GW Leibniz Inst. for Polymer Research (Dresden). Sergiy earned a Ph.D. in organic chemistry from Lviv Polytechnic Univ. (Ukraine) in 1983 and a Doctorate of Science in macromolecular chemistry in 1993 from the Natl. Academy of Sciences (Ukraine). His research interests include smart colloids, smart/responsive polymers, nanostructured thin polymer films, nanotemplates and nano membranes, formation of nanowires and nanoparticles, adhesion, wetting, adsorption regulation, single molecule devices and materials combinatorial methods.

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Mitzi Montoya-Weiss, a Professor of Marketing at NC State, joined the faculty in 1995. Mitzi earned a B.S. in general engineering in 1990 and a Ph.D. in marketing in 1995, both at Michigan State Univ. Her research interests include product design optimization, new product development process management and using advanced information technologies in marketing and new product development.

S01-NS09

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Jeffrey F. Morris, an Associate Professor of Chemical Engineering and a member of the Benjamin Levich Institute for Physico-chemical Hydrodynamics at City College (NYC), joined the faculty in 2004 from a position in Engineering Research at Halliburton Energy Services. Jeff was an Assistant Professor at Georgia Tech from 1996-2002. He earned a B.Ch.E. in 1989 from Georgia Tech and a Ph.D. in ChemE. at Caltech and spent a year with Shell Research in Amsterdam. Since 1999- he has also been a Visiting Professor at the Universite de Provence in Marseille (France). His research interests include suspensions, colloids, and gels, with a focus on particulate effects upon rheology and bulk flow behavior. C98-G30, C99-GT08, C02-GT07, C05-GT07

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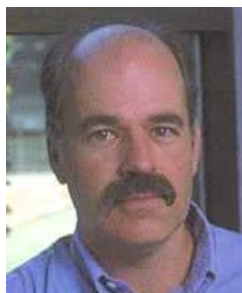
Jeffrey Morgan, an Associate Professor of Molecular Pharmacology, Physiology & Biotechnology at Brown Univ., earned a Ph.D. in biological chemistry from Harvard in 1983 after receiving his BS in biology from Syracuse in 1977. He was a Post Doctoral Fellow Massachusetts Institute of Technology and Whitehead Institute for Biomedical Research. Before joining the faculty at Harvard in 1991, Jeff co-founded Somatix Corp. which specializes in the commercialization of gene therapy technologies. His research interests include gene therapy and cell transplantation, gene transfer using recombinant retroviruses and the cellular and molecular biology of wound healing.

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John Muth, an Associate Professor of Electrical and Computer Engineering at NC State, joined the faculty in 2000. John earned a B.S. in applied engineering physics from Cornell in 1988 and a Ph.D. in physics from NC State in 1998. From 1988-1993 he served in the U.S. Navy as a fast attack submarine officer. His research interests include wide band gap semiconductors, optical characterization of novel materials and photonic devices.

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NTC Principal Investigators and Researchers

H. Troy Nagle, Professor and Founding Chair of the joint Biomedical Engineering Dept. at Univ. of North Carolina – Chapel Hill and NC State, first joined the faculties of both universities in 1984. He earned a B.S. (1964) and M.S. (1966) from Univ. of Alabama and a Ph.D. from Auburn in 1968, all in electrical engineering, and an M.D. from Univ. of Miami in 1981. Troy is Editor-in-Chief of the *IEEE Sensors Journal*. His research interests include micro-fabricating biosensors and medical devices, and inserting these technologies into textile materials.



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Alexander V. Neimark, a Research Director of TRI/Princeton's Center for Modeling and Characterization of Nanoporous Materials, joined the staff in 1996. He earned an M.S. in mechanical engineering in 1973, a Ph.D. in chemical engineering in 1977 and a D.Sc. in physical chemistry in 1988 from Moscow State Univ. (Russia). He was then a Research Professor in Physics at the Russian Academy of Science then to the faculty of Yale's Chemical Engineering Dept. 1994-96. Alex's research interests include interfacial phenomena and porous materials engineering, from molecular level theories of nanocapillarity to macroscopic models of fluid flow and sorption in porous media and fiber systems.



C98-P02, M04-CD01

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Anil N. Netravali, a Professor of Fiber Science at Cornell, joined the staff in 1984 as a postdoctoral associate in Materials Science and Engineering and then in 1987 joined the faculty in Textiles and Apparel. Anil earned a B.S. and an M.S. in textiles in 1973 from Bombay Univ. and an M.S. (1980) and Ph.D. (1984) in fiber and polymer science from NC State. His research interests include high strength fibers and composites, fiber/resin interface modification, environment-friendly "Green" composites and polymer durability.



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Branislav M. Notaros, an Associate Professor in the Electrical & Computer Engineering at Colorado State Univ., Joined the faculty in year?, following an Associate Professorship UMass Dartmouth. Branislav earned a Ph.D. in EE from the Univ. of Belgrade (Yugoslavia) in 1995. His research interests are in applied computational electromagnetics, antennas, and microwaves.



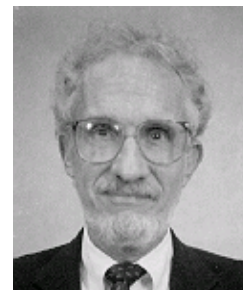
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Henry L. W. Nuttle, a Professor of Industrial Engineering and Associate Director of Graduate Programs at NC State, joined the faculty in 1966. Hank earned a B.S. from Dickinson College in 1961 and a Ph.D. in operations research from Johns Hopkins Univ. in 1968. Hank's research interests include modeling and decision support for textile/apparel manufacturing and application of operations research to problems in production planning, scheduling and control.



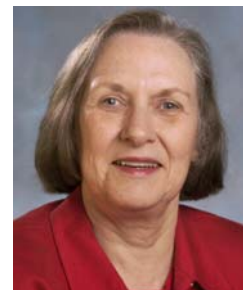
I92-S04, I95-S02, I98-S01, S01-NS01

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S. Kay Obendorf, a Professor of Fiber Science and Associate Dean for Research and Facilities at Cornell, joined the faculty in 1978. Kay earned a B.S. in clothing and textiles from Kansas State in 1962, an M.S. in textiles from the University of Illinois in 1963 and a Ph.D. in physical chemistry from Cornell in 1976. Her research interests include characteristics of fibers and films, the distribution of chemicals (such as oils, finishes, dye carriers and pesticides) within textile structures and developing new textile finishes, laundry detergents and protective clothing guidelines.



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William Oxenham, a Professor and Associate Dean in the College of Textiles at NC State, joined the faculty in 1992 after lecturing at the Univ. of Leeds (England) since 1974 when he earned a Ph.D. there in textiles. Bill also earned a Bs.C. in textile physics at Leeds in 1969. His research interests center in the area of yarn manufacture and include fiber property measurement to control product and process quality during spinning.



F94-S09, I95-A11, F96-A3, F97-C5, F99-NS06*, S99-NS10, C01-NS08, F01-NS14, C04-NS07

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NTC Principal Investigators and Researchers

Ning Pan, a Professor in both Textiles and Biological and Agricultural Engineering at UC Davis, joined the faculty in 1990 following positions at Dунghua Univ. (Shanghai), the Wool Research Org. of New Zealand in 1987-88, San Francisco State 1988-89, then M.I.T. Ning earned a B.S. from Northwest Inst. of Textile Sci. & Tech. (China) in 1975 and a Ph.D. from Dунghua Univ. in 1985, both in textile engineering. His research interests include mechanical & physical properties of textile and polymer materials, transport phenomena in fibrous structures, fiber composites and biomaterials.



F00-MD06, M02-CD03*, S02-CD01, S02-CD04, F04-GT01, M04-CD01, S04-CD03*, S05-AC02, S05-CD04*, S06-CD01, S08-CD04*
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Radhakrishnaiah Parachuru, a Senior Research Scientist in Textile and Fiber Engineering at Georgia Tech, joined the staff in 1988 from the staff of NC State. He received a Ph.D. in textile engineering in 1981 from the Indian Institute of Technology (New Delhi) and an MS in applied statistics from Georgia State in 1995. Krishna was on the Textile Technology faculty at the University of Madras (India) in 1984-5. His research interests include spun yarn structure and property relationships, Kawabata methodology and computer modeling of manufacturing processes.



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Heungsup Park, a Research Engineer in Polymer, Textile and Fiber Engineering at Georgia Tech joined the staff upon earning a Ph.D. there in polymer, textile and fiber engineering in 2003. Heungsup's research interests include textile digital printing, textile and polymer chemistry and fluid mechanics.



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Jung O. Park, a Senior Research Scientist in Textile and Fiber Engineering at Georgia Tech, joined the faculty in 2000 from NC State. She had previously worked at Advanced Materials Research Inst. of LG Chemical Ltd. (Korea) for 12 years and at Korea Inst. of Science and Technology for 3 years. Jung earned a M.S. in chemistry at Sogang Univ. (Korea) in 1978, a M.S. in polymer science in 1985 and a Ph.D. in chemistry in 1986 from Carnegie Mellon Univ. Her research interests include polymer physics, polymer rheology, optical characterization of materials, surface modification and specialty coating and organic-inorganic nanocomposites.



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David Pascoe, an Assistant Professor in Health and Human Performance at Auburn, joined the faculty in 1990 when he received a Ph.D. degree in bioenergetics from Ball State. Earlier he received a M.A. from California State-Fresno. Dave's research interests include physiological evaluation of clothing systems for heat and cold stress and thermography to identify hazards due to protective clothing systems.



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NTC Principal Investigators and Researchers

Christopher M. Pastore, a Professor of Engineering and Textiles and Co-Director of the Engineering and Design Institute at PhilaU, joined the faculty in 1995 from an Associate Professorship of Textile Materials Science at NC State and earlier on the Materials Engineering faculty at Drexel Univ. Chris holds a B.A. and M.S. in mathematics and a Ph.D. in materials engineering from Drexel in 1988. His research interests include modeling of fabric and composite structures.



F92-S12, F92-S09, F98-P01*, S99-PH01*, F00-PH01, F00-PH05*, S00-PH08, S01-PH07, S03-PH01

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Prabir K. Patra, a post doctoral research fellow at UMassD since 2000, earned a Ph.D. in polymer and materials science and engineering from Indian Institute of Technology (IIT) in 1998. Prabir did industrial research at Indian Rubber Manufacturer's Research Assoc. (IRMRA) 1998-2000. His research interests include nanobiomaterials, nano-scale polymer assembly for optical and electrical properties polymer nanocomposites and carbon nanotube based soft structure assembly.



F00-MD06, M00-MD08, M01-MD22, M02-MD08*, M03-MD14, M04-MD07*, F05-MD01, F05-MD09, F06-MD14, M06-MD01*, M08-MD07*

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Thomas A. Petee, an Associate Professor of Sociology at Auburn, joined the faculty in 1989 upon earning a Ph.D. in sociology from Notre Dame. He also holds a M.S. in sociology and a B.S. in criminal justice from Univ. of Toledo. Tom's research interests include decision-making models.



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Matthew D. Phaneuf is President and Chief Technical Officer of BioSurfaces, a research and development company, which he founded in 2003. Upon earning a B.S. in biochemistry from UMassD in 1989, he joined the Vascular Surgery Research Lab (Harvard Medical School) where he served until 2006 when he was Assistant Laboratory Director. He is the Biology Editor for the Surfaces in Biomaterials Foundation and a reviewer for the *Journal of Biomedical Materials Research*. His research interests include biomaterial modifications.



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S. Leigh Phoenix, a Professor in Theoretical and Applied Mechanics at Cornell, joined the faculty in 1974 from a research position at Fabric Research Labs (Dedham MA). Leigh earned a B.Sc.Eng. in 1967 and an M.Sc.Eng. in agriculture engineering from Univ. of Guelph in 1968 and a Ph.D. in theoretical and applied mechanics from Cornell in 1972. In 1983 he received the Fiber Society Award for Distinguished Achievement in Basic or Applied Fiber Science. His research interests include theoretical and experimental studies of the long-term reliability of fibrous materials under high stresses, ballistic impact of fibrous materials for body armor and microelectromechanical systems (MEMS).



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John D. Pierce Jr., an Associate Professor of Biopsychology at PhilaU since 1998, earned a B.S. from St. Joseph's Univ. in 1981, an M.A. in psychology from the Univ. of Nevada Reno in 1985, and a Ph.D. in psychobiology from the Univ. of Florida in 1989. John then did postdoctoral research in psychophysics at the Univ. of Pennsylvania and the Monell Chemical Senses Center. His research interests include sensory processing and perceptual experiences across different sensory modalities, including olfaction and touch.



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Malcolm Polk, an Emeritus Professor of Textile and Polymer Chemistry at Georgia Tech, joined the faculty in 1985. He earned a B.S. from Univ. of Illinois in 1960 and a Ph.D. in organic chemistry from the Univ. of Pennsylvania in 1964. After a postdoc at UC Davis, Malcolm worked at DuPont until 1972, when he became an Associate Professor at Atlanta Univ. His research interests include polymer synthesis and characterization; depolymerization; liquid crystalline polymers; high temperature resistant polymers and molecular modeling of polymers.

M92-G03*, M93-S05, M95-S22, M98-G08, M00-MD08, M04-GT11, F05-GT04, M06-GT03

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Yiping Qiu, an Assistant Professor at NC State since 1996, received a B. E. in textile engineering at Zhejiang Institute of Silk Technology (China), a M.S. in textile science at Auburn and a Ph.D. in fiber science at Cornell. Yiping's research interests include fabrication and characterization of fiber reinforced composites, modification and analysis of fiber matrix interfaces, mechanics of fibrous structures and moisture vapor transfer in fibrous structures.

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Behnam Pourdeyhimi, the Associate Dean for Industry Research and Extension and the William A. Klopman Distinguished Professor in at NC State and Director of their Nonwovens Cooperative Research Center, joined the faculty in 1999 from Georgia Tech, preceded by 11 years at Univ. of Maryland in Textiles & Consumer Economics and in Materials & Nuclear Engineering. Behnam earned a Ph.D. in textiles from Leeds (U.K.) in 1982. In 1994 he received the Fiber Society's Young Distinguished Scientist Award. His research interests include structural analysis, nonwovens, bioengineering and materials.

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