

*NTC Principal Investigators and Researchers*

**Nancy Rabolt, a Professor and Chair of Consumer and Family Studies/ Dietetics at San Francisco State Univ., joined the faculty in 1978. She earned a Ph.D. in 1984 in textiles, merchandising and design at the Univ. of Tennessee - Knoxville and an M.S. in clothing and textiles from Southern Illinois Univ. in 1972. Nancy co-authored Consumer Behavior: In Fashion and Concepts and Cases in Retail and Merchandise Management. Her research interests include cross-cultural consumer behavior and global aspects of the apparel industry.**



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**Amar Raheja, an Assistant Professor in Computer Science at California St. Polytechnic Univ (Pomona), joined the faculty in 2001 from the same position at PhilaU. He earned a Ph.D. in engineering sciences and biomedical engineering at the Univ. of Toledo (OH) in 1999 and a B.S. and M.S. in physics from the Indian Institute of Technology. Amar's research interests include intelligent image analysis, genetic algorithms, wavelets, image reconstruction, forecasting methods, neural networks, adaptive learning and pattern recognition.**



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**Apparao Rao, a Professor in Physics and Astronomy at Clemson, earned a B.S. in physics from Bombay Univ. (India) in 1983 and a Ph.D. in condensed matter physics from Univ. of Kentucky in 1989. Rao's research interests include Raman spectroscopy characterization of carbon nanotubes and electronic devices.**



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**Mary Lynn Realf, an Associate Professor of Textile and Fiber Engineering at Georgia Tech, joined the faculty in 1992. Mary Lynn earned a B.Eng. in textile engineering from Georgia Tech in 1987 and a Ph.D. in mechanical engineering and in polymer science and technology from MIT. Her research interests include design of textile structures, investigation and modeling of the mechanical behavior of textile structures, image processing and modeling and design of textile processes.**



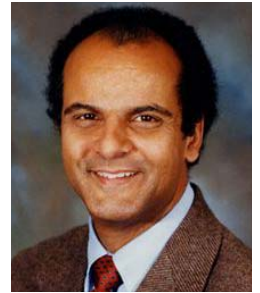
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**Cynthia Regan, an Associate Professor in Apparel Merchandising and Management at California State Polytechnic Univ. - Pomona, joined the faculty in 1997. She earned a B.S. in home economics at Cal Poly, San Luis Obispo in 1980 and an M.S. at Univ. of Wisconsin in apparel design in 1985 and a Ph.D. in clothing and textiles from Virginia Polytechnic Institute in 1997. Cindy was a U.S. Dept of Energy Fellow in Integrated Manufacturing. Her research interests include apparel producer development, manufacturing, supply chain, design and operations management.**



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**John M. Rice, a Professor of Mechanical Engineering at UMassD, joined the faculty in 1984 upon earning a Ph.D. in mechanical engineering and applied mechanics from Univ. of Rhode Island. John also has a B.S. in mechanical engineering from Northeastern (1974), an M.S. in applied mechanics from Stanford (1977). He has been a mechanical engineer for Failure Analysis Associates (1977-1978) and the U.S. Naval Undersea Warfare Center. His research interests include composite materials, nanoparticles, finite element modeling and vibrations.**



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## NTC Principal Investigators and Researchers

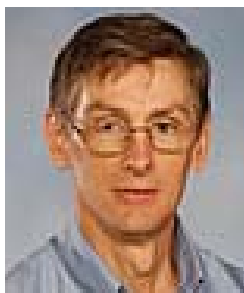
Lloyd Stephen Riggs, a Professor of Electrical and Computer Engineering since 1984 at Auburn where he earned B.S. (1977), an M.S. (1978) and a Ph.D. (1985), all in electrical engineering. Earlier, Lloyd was a Lead Engineer in the Aerospace System Division at Harris Corp. His research interests include mine and unexploded ordnance, detection/discrimination using electromagnetic induction and detection of pathogens using magnetostriction oscillators.

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Robin D. Rogers, the Robert Ramsay Chair of Chemistry Research Professor and Director of the Center for Green Manufacturing at Univ. of Alabama, joined the faculty in . His research interests include utilizing ionic liquids and green chemistry for sustainable technology through innovation. advanced materials from biorenewables, novel separations and purification of biomass products, lubricants, separations; waste reduction and improved pharmaceutical performance in medicine.

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Orlando J. Rojas, an Associate Professor of Paper Science and Engineering at NC State, joined the faculty in 2003 following a postdoc at the Royal Institute of Technology (KTH, Stockholm). Orlando earned a Ph.D. in chemical engineering from Auburn in 1998. His research interests include adsorption of surfactants and polymers at solid/liquid and liquid/air interfaces, such as synthetic and natural polymers in lignocellulosic systems, boundary layer lubrication and enzyme activity and surface phenomena.

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Margaret H. Rucker, Professor of Textiles and Clothing at UC Davis, joined the staff in 1970. She earned a B.A. in psychology from DePauw Univ. in 1961 and a Ph.D. in organizational and consumer psychology from Purdue in 1969 then lectured in Management and Psychology at Univ. of Missouri. Peg was the 1997 International Textile and Apparel Association Educator of the Year. Her research interests include domestic and international trade and protective clothing development.

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Cathy A. Rusinko, Assistant Professor of Management, joined PhilaU in 2000. She earned a Ph.D. in management and organization and an M.A. in economics from Penn State. Before her academic career, Cathy worked at General Electric, U.S. Depts. of Defense and Agriculture. Her research interests include management of technology and innovation, project and manufacturing management, sustainable practices in organizations, and competitive strategy.

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Philip Samuel Russel, an Associate Professor of finance at PhilaU since 2000, earned his Ph.D. in finance from the U Mass-Amherst in 1995 following an MBA from Morgan State Univ. in 1990 and an M.A. in business economics from Univ. of Delhi - India in 1988. He has previously taught at Univ. College of the Cariboo (British Columbia), University of New Brunswick and Beijing Concord College of Sino-Canada. Phil's research interests include corporate bankruptcy and managed portfolios.

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Paul S. Russo, a Professor in the Department of Chemistry at Louisiana State University, joined the faculty in 1983 after a period as Postdoctoral Associate at the University of Massachusetts. He has worked in the Wright Research & Development Center at Wright-Patterson Air Force Base, and in Sandia National Laboratory, Department of Organic and Electronic Materials. Paul's research interests include polymer physical and analytical chemistry, optical measurements, gels, liquid crystals, and rodlike polymers.

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Gregory C. Rutledge a Professor of Chemical Engineering at M.I.T. since 1991, earned a Ph.D. in chemical engineering there in 1990. He also earned a B.S. degree in chemical engineering from Univ. of Virginia in 1983. Greg worked for Dow Chemical for 2 years and did postdoctoral research at ETH (Zurich) and the Univ. of Leeds (England). His research interests include structure/property relationships in polymer science and engineering, statistical mechanics and molecular simulation of polymers, liquid crystal polymers and polymer mechanics.

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Robert J. Samuels, a Professor in Chemical and Biomolecular Engineering at Georgia Tech since 1979, earned a B.S. from Brooklyn College in 1952 and a Ph.D. in polymer chemistry from Univ of Akron in 1961. He is a Fellow of the Society of Plastics Engineers. Robert is author of the book Structured Polymer Properties. During an 18 year career at Hercules, he was an Adjunct Professor at the Univ. of Delaware and Univ. of Washington. His research interests include rapid nondestructive characterization of anisotropic polymers, deformation kinetics of polymer systems, and prediction of advanced material behavior.

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David Salem, Director of Research at TRI/Princeton and member of NTC's TAC committee, joined them in 1983 after earning his Ph.D. in polymer and fiber physics from the University of Manchester Institute of Science and Technology. From 1986-88, he was a research physicist at Rhone-Poulenc in France. David received the Fiber Society's Award for Distinguished Achievement in Fiber Science in 1996. His research interests include polymer crystallization, microstructure characterization of polymers and structure formation during polymer processing.

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Anne Sandstrom, a graduate student in Textiles at UC Davis, earned a B.S. in Textile Science from UCD in 2003. Anne's primary research focus is on protective clothing development.

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Frank Scarano, an Assistant Professor in Medical Laboratory Science (MLS) at UMass Dartmouth, joined the faculty in 1998 after a postdoctoral fellowship at Hartford Hospital - UConn. Frank earned a B.A. in Biology/MLS from Alfred Univ. in 1986, an MS in 1990 and a Ph.D. in 1994 in microbiology, immunology and molecular genetics, both from Albany Medical College. His research interests include clinical microbiology, molecular epidemiology, molecular diagnostics and mechanisms of antimicrobial resistance.

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**F. Joseph Schork**, a Professor and Associate Chair of Chemical Engineering at Georgia Tech, joined the faculty in 1982. Joe earned a Ph.D. in chemical engineering in 1981 from Wisconsin. He also received a M.S. in chemical engineering in 1974 from the University of Louisville then worked for DuPont until 1977. His research interests include the dynamics and control of reacting systems, esp. development of mathematical models, on-line sensors, digital control schemes, and novel reactor configurations for polymerization, and other reaction systems.



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**Abdel-Fattah M. Seyam**, a Professor in Textile and Apparel Technology and Management at NC State since 1991, earned an M.S. degree in textile engineering from Alexandria Univ. (Egypt) in 1978 and a Ph.D. in fiber and polymer science from NC State in 1985. He then held research positions at Burlington Industries and Valdese Textiles. Abdel-Fattah's research interests include mechanics of woven fabrics, technologies for apparel automation and web forming, direct garment manufacturing using meltblown technology, micromachines in textiles and integrating electronic components in smart textile structures.



I92-S03, I92-S11, F98-S12, F01-NS14\*, F03-MD01, F03-NS03s, C04-NS07\*

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**Heidi Schreuder-Gibson**, a research polymer chemist in the U.S. Army Natick Soldier Center's Materials Science Team, Supporting Science & Technology Directorate, joined the Department of Defense in 1979. She earned a B.S. in chemistry from Univ. of California in 1981 and a Ph.D. in polymer science from Univ. of Akron in 1987. Heidi's research interests include protective textiles and plastics, especially high strength fibers for armor, biodegradable plastics for food packaging, flame resistant materials and breathable multifunctional textile membranes for protective clothing.



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**Renzo Shamey**, an Assistant Professor in Color Science and Technology at NC State, joined the faculty in 2003 from 5 years of establishing and leading the Automation and Novel Coloration Research Group at Heriot-Watt Univ. Renzo earned a B.Sc. in textile and fibre chemistry engineering from IUT in 1989. After being technical director of 2 dyeing and finishing mills for 3 years, he earned a M.Sc. in 1993 and a Ph.D. in 1997, both in colour chemistry from Leeds Univ. His research interests include colour science and technology and IT applications in textile wet processing.



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**Vivek Shankam**, a graduate student in Textile Management and Technology, earned a B.S. in textile technology in 2001 from Bangalore Univ. (India) and a Master of Textiles from NC State in 2003. Vivek's research interests include microminiature sensors and wireless MEMS technology.



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**Karla Simmons**, an Assistant Professor in Consumer Affairs at Auburn, joined the faculty in 2005 from the Univ. of Missouri where she was an Assistant Professor and site coordinator for SizeUSA. Karla earned a B.S. in 1992, an M.S. in 1996 (both from Auburn) and a Ph.D. in textile and apparel technology and management from NC State in 2002, then briefly supervised the Automated Cutting Dept. at Oneita Ind. Her research interests include 3-D body scanning technology, apparel fit and sizing, and product development.



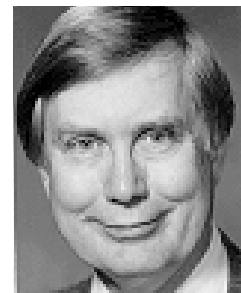
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**B. Lewis Slaten**, an Associate Professor at Auburn, joined the faculty in 1974 after receiving a M.S. in organic chemistry from University of Arkansas in 1964 and a Ph.D. in chemical engineering from Maryland. Previously, Lew was a chemist for Freeport Minerals and the National Bureau of Standards' Fire Technology division. His research interests include fabric test methods, barrier textiles, protective clothing, environmental chemistry and chemistry of textile finishes.



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## NTC Principal Investigators and Researchers

Tim Slusser, a graduate student in Electrical Engineering at NC State, earned a B.S. in electrical engineering from NC State. Tim's research interests include robotics and MEMS structure and design.

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Guowen Song, a Research Associate in Textile Engineering, Chemistry and Science at NC State, joined the staff upon earning a Ph.D. there in polymer and fiber science in 2002. Guowen earned a M.S. in textile chemistry at Tianjin Polytechnic Univ. in 1991. He was for visiting scholar at NC State for 1 yr, an engineer in Velvet Knitting and Dyeing Mill (China) for 3 yrs and a researcher and lecturer at Tianjin Polytechnic Univ. for 5 yrs. His research interests include textile protection, comfort and functional finishing.

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C. Brent Smith, the Cone Mills Professor of Polymer and Color Chemistry at NC State, joined the faculty in 1983. He received a Ph.D. in chemical physics from the University of Florida in 1966. Since then, Brent held various research positions in United Merchants and Manufacturers, West Point Pepperell and Cotton Incorporated. His research interests include pollution control by source reduction, mathematical modeling and real-time data for process control, coloration and color perception.

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Richard J. Spontak, a Professor of Chemical and Biomolecular Engineering and of Materials Science and Engineering at NC State, joined the faculty in 1992 following research positions at the Univ. of Cambridge (U.K.), the Institutt for Energiteknikk (Norway) and Procter & Gamble. Rich earned a B.S. from Penn State in 1983 and a Ph.D. from UC Berkeley in 1988, both in chemical engineering. His research interests include phase behavior and morphological characterization of nano/microstructured polymeric systems, including block copolymers, nanocomposites and gels and 3D transmission electron microscopy.

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Dennis W. Smith Jr, an Associate Professor of Chemistry at Clemson, joined the faculty in 1998 after 5 yrs at Dow Chemical. Dennis earned a B.S. in chemistry and mathematics from Missouri State Univ. in 1988 and a Ph.D. in chemistry at Univ. of Florida in 1992. His research interests include synthesis/applications of fluoropolymers, polyarylenes and polylactides, with particular emphasis on optical materials.

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Michael R. Solomon, Human Sciences Professor of Consumer Behavior at Auburn, joined the faculty in 1995 from being Chairman of the Dept. of Marketing at Rutgers. He earned B.A. degrees in psychology and sociology magna cum laude at Brandeis Univ. in 1977, and a Ph.D. in social psychology from UNC-Chapel Hill in 1981. He has written Consumer Behavior: Buying, Having and Being and Marketing: Real People, Real Choices. Mike's research interests include consumer behavior and lifestyle issues, symbolic aspects of products, the psychology of fashion, decoration and image and services marketing.

I97-A11\*, S00-AC16\*, S01-AC21\*, S03-AC01\*, S06-AC01\*, S06-AC04\*

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Joseph E. Spruiell, a Professor in Materials Science & Engineering at Univ. of Tennessee, joined the faculty after earning both a B.S. in chemical engineering (1958) and a Ph. D. there in metallurgical engineering in 1963. Joe's research interests include polymer structure-property-processing interrelationships, fiber science and technology, melt spinning, polymer film technology, process modeling, polymer morphology and crystallization, carbon fiber processing and structure.

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## NTC Principal Investigators and Researchers

**Mohan Srinivasarao**, an Associate Professor in Textile and Fiber Engineering at Georgia Tech, joined the faculty in 1999 from the NC State faculty. Mohan earned a M.Sc. in applied chemistry from Univ. of Madras (India) in 1981, a M.S. in polymer science in 1985 and a Ph.D. in chemistry from Carnegie Mellon in 1990, then was a Research Fellow at UMass-Amherst. He also consulted at AT&T and Polaroid. His research interests include physical chemistry of polymers, nematic liquid crystal physics and rheology and rheo-optics of polymeric fluids, liquid crystals and biological color science.

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**Igor Stojiljkovic**, was an Assistant Professor of Microbiology & Immunology at Emory Univ. 1995-2004, earned an M.D. degree in 1983 at the Medical School and a Ph.D. in microbiology and molecular genetics in 1990, both at Univ. of Zagreb (Croatia). His research interests included bacterial heme/hemoglobin (Hb) acquisition systems and their role in bacterial pathogenicity and designing new antibacterial agents and procedures to fight against pathogenic microorganisms.

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**Richard Stein**, a Professor Emeritus in Chemistry at UMass Amherst, joined the staff in 1951 after earning a B.S. in chemistry at Polytech. Inst. Brooklyn in 1945 and a Ph.D. in chemistry from Princeton Univ. in 1949 and a postdoc at Cambridge. Dick has been a member of both the National Academy of Science and National Academy of Engineering. His research interests include optical and mechanical properties of high polymers, light scattering, birefringence, infrared dichroism, x-ray diffraction, small angle x-ray and neutron scattering.

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**Lisa Staiano-Coico**, the Rebecca Q. and James C. Morgan Dean of the College of Human Ecology at Cornell since 2004, Earlier she was Professor of microbiology in surgery, of public health and of microbiology in dermatology, all at Weill Cornell Medical College. Joining the faculty in 1983, Lisa earned a B.S. from Brooklyn College of the City University of New York and a Ph.D. in Microbiology and Immunology from Cornell. Her research interests include epidermal biology, primarily wound repair and the factors that aid or hinder proper wound healing.

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**Moon W. Suh**, a Professor of Textile and Apparel Management and of Statistics at NC State, joined the faculty in 1987 after a 19-year career at Burlington Ind. as a statistician and operations research analyst. He earned a B.S. in textile engineering from Seoul National Univ. (Korea) in 1961 and a Ph.D. in statistics from NC State in 1969. Moon's research interests include statistical and probabilistic modeling of textile processes and products, quality control methods, apparel business information systems, biostatistics and statistical failure models.

M92-A01, I95-A11, I97-S01\*, I98-S06\*, F99-NS02, S01-NS12\*, S06-NS02\*

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**Florence Teulé**, a Ph.D student in genetics at Clemson, earned a BS in plant biology and chemistry in 1995 from from the Université de Pau (France) and a D.E.A. Bases de la production végétale in plant breeding at the University of Montpellier in France in 1996.

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**Bruce J. Tatarчук**, a Professor of Chemical Engineering since 1982 and in 1996 and Director of the Center for Microfibrous Materials Manufacturing at Auburn, earned a Ph.D. from Univ. of Wisconsin (Madison) in 1981 and a B.S. in 1976 from Univ. of Illinois, both in chemical engineering. His research interests include surface science of solids and surface spectroscopic techniques, characterization of buried-interfaces and tribology, heterogeneous reactive systems and microfibrillar materials.

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**Gang Sun**, an Associate Professor in Textiles and Clothing at UC Davis joined the faculty in 1995. Gang earned a B.S. in polymer fibers in 1982 and an M.S. in textile chemical engineering in 1984, both from China Textile Univ. (Shanghai), and a Ph.D. in organic/polymer chemistry from Auburn in 1994. His research interests include synthesis and functional modification of polymers, functional chemical processing of textiles, and utilization of agricultural and environmental wastes.

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**Naresh Thadhani**, a Professor and Associate Chair in Materials Science and Engineering Georgia Tech, joined the faculty in 1992 after 6 years on the faculty of New Mexico Inst. of Mining and Technology where he earned a Ph.D. in physical metallurgy in 1984. Naresh also has a B.E. from Univ. of Rajasthan (India) (1980) and an M.S. at South Dakota School of Mines and Technology (1981), both in metallurgical engineering. His research interests include nanocrystalline intermetallics and non-equilibrium alloys, energy-absorbing and releasing materials and shock-induced phase transformations.

F05-GT04

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**Yuyu Sun**, a Staff Research Associate in Textiles and Clothing at UC Davis joined the staff in 1999. Yuyu earned his Ph.D. in polymer chemistry and physics from Fudan University, China. His research interests are functional modifications of fibers and polymers.

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**Les M. Sztandera**, a Professor of Computer Information Systems at PhilaU served as a Distinguished Fulbright FLAD Chair in Information Systems Les earned a Diploma from Cambridge (England) in 1989, an M.S. from Univ. of Missouri in 1990 and a Ph.D. in computer and engineering science from the Univ. of Toledo in 1993. Les' research interests include fuzzy logic, pattern recognition, computer vision, genetic algorithms, neural networks, hybrid intelligent systems, and modeling and management of uncertainty.

I98-P01, S01-PH10, C04-PH02s\*, C05-PH01\*

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**Yonathan Thio**, an Assistant Professor of Polymer, Textile and Fiber Engineering at Georgia Tech, joined the faculty in 2005 from a postdoc at Univ. of Minnesota. Yonathan earned a B.S. in chemical engineering and materials science and engineering from UCal-Berkeley in 1998 and a Ph.D. in chemical engineering at M.I.T. in 2003. His research interests include connection between macroscopic mechanical properties of polymeric materials and their structure / morphology in the nano- and micro-scales.

M06-GT03

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## NTC Principal Investigators and Researchers

Howard L. Thomas, Jr., an Associate Professor of Textile Engineering at Auburn, joined the faculty in 1996 from ITT. He earned a Ph.D. in textile and polymer science from Clemson in 1991 and a M.S. in textiles from Georgia Tech. He is the USA editor for *International Textile Bulletin* and has industrial experience with Sulzer-Ruti, Springs Industries, J. P. Stevens and Cone Mills. Howard's research interests include weaving machine redesign and process consolidation, recycled fibers for nonwovens and ballistic resistant fabrics.

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Alan Tonelli, the Invista Professor of Fiber and Polymer Chemistry, joined the faculty in 1991 after a 23-year career at AT&T's Bell Labs. He earned a B.S. in chemical engineering from Univ. of Kansas in 1964 and a Ph.D. in chemistry from Stanford in 1968. Alan is a Fellow of the American Physical Society and author of *NMR Spectroscopy and Polymer Microstructure The Conformational Connection and Polymers from the Inside Out: An Introduction to Macromolecules*. His research interests include conformational characteristics, microstructures, NMR spectroscopy and physical properties of polymers.

C95-S07, C98-S01\*, C99-NS04\*, M01-NS03, M02-NS01\* M05-NS05, M06-NS02\*

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Donald B. Thompson, a Special Projects Director of the Center for Research on Textile Protection and Comfort at NC State, earned a Ph.D. in fiber and polymer science from there in 1977. He has held industrial research positions at Monsanto, BASF and Schering-Plough. His research interests include understanding the factors creating comfort and protective performance of garments, human subjective and physiological testing and fiber modification.

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Mehmet Toner, an Associate Professor of Surgery (Bioengineering) at Harvard Medical School, joined the staff in 1990 after a postdoc at M.I.T. He earned a PhD in medical engineering in 1989 from MIT and a B.S. in mechanical engineering in 1983 from Istanbul Technical Univ. His research interests include microfabrication in cell engineering, preservation of cells and tissues and tissue engineering of liver.

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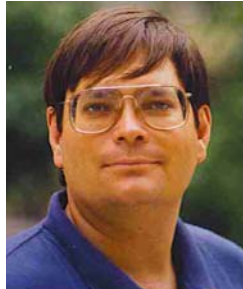
Michael Thompson, a Professor of Materials Science and Engineering at Cornell, joined the faculty in 1984 upon earning a Ph.D. there in applied and engineering physics. Michael also earned a B.S. in applied physics from California Inst. of Tech. in 1979. His research interests include laser-assisted processing of semiconductors and thin film materials, electronic properties at organic interfaces and materials fabrication for microelectromechanical systems (MEMS).

F04-CR02

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Fernando Tovia, an Associate Professor and Program Coordinator of Industrial and Systems Engineering at PhilaU, joined the faculty in 2004. Fernando earned a B.S. from Univ. of the Americas (Mexico) in 1981 and an M.S. from Oklahoma State Univ. in 1987 (both in industrial engineering, and a Ph.D. in engineering from Univ. of Arkansas in 2004. He spent 20 years working in production planning, strategic planning and as an executive in the textile industry in Mexico. His research interests include supply chain management, inventory management, service parts logistics, emergency logistics and engineering education.

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S01-NS10, S04-NS02

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**Pamela V. Ulrich**, an Associate Professor in Consumer Affairs at Auburn, joined the faculty in 1987. Pam earned a Ph.D. in American history from Univ. of Oregon in 1991 and a M.S. in clothing and textiles from Auburn in 1980. Her work experience includes department store retailing. At Auburn, she manages the Historic Costume and Textile Collection. Her research interests include apparel fit and shape analysis, product development, and historical change in textiles, apparel and retailing.

I92-A06, I92-A07, I95-A19, I95-A20, I98-A7\*, I98-A08, I98-A09, S01-AC27, S04-AC01\*, S06-AC03\*

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M98-D01, C01-MD20, M01-MD22, F05-MD01, F06-MD09\*

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**Robert Van Buskirk**, a Leading Professor of Bioengineering, Chairman of the Dept of Biology and Director of the Advanced Biotechnologies Center at Binghamton Univ. (NY), joined the faculty in 1986: Rob earned a Ph.D. in cell and developmental biology at Harvard in 1983. Since 2002 he has been Vice President, Research and Development of BioLife Solutions, which developed a solution for shipping and storing human cells, tissues and organs. His research interests include engineered human tissues, understanding the molecular basis of cell death (both apoptosis and necrosis) subsequent to extended tissue storage and using cryosurgery to treat prostate cancer.

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**Hitoshi Ujiie**, an Assistant Professor of Textile Design at PhilaU, joined in 2000 after 10 years of directing textile program at Parsons School of Design in NYC. He earned his B.F.A. degree in fabric design from Kyoto Seika Univ. in 1985 and his M.F.A. in textile design from the Univ. of Georgia in 1988. Hitoshi established Ion Design, a digital fabric-printing studio in New York. His research interests include digitally produced textile design and inkjet fabric-printing.

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**Nadarajah Vasanthan**, an Assistant Professor at Long Island University, joined the faculty in 2004 after 7 years as a Senior Scientist at TRI/Princeton. Previously, Nad was a polymer research associate at NC State and a research scientist at Allied-Signal. He earned a B.Sc in chemistry from Univ. of Jaffna (Sri Lanka) in 1987 and a Ph.D. in polymer physics from City Univ. (NYC) in 1994. His research interests include crystallization and microstructure characterization of semicrystalline polymers, biodegradable polymers and spectroscopy.

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M04-CL11

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M05-CD01

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M92-G03, F94-A08, F98-G15\*, F98-S09, F01-GT06\*, F04-GT01\*, F04-GT02\*, F06-GT01

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S99-MD16\*, S03-MD13s\*

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F92-G01, M95-G08\*, C95-G02, M98-D01, M98-D03, C97-G31, S99-MD16, M00-MD03, M00-MD08, F00-MD06, M01-MD22, M02-MD08; C03-CD01s, F03-AE02, F03-MD15, M03-MD14, C04-CD06s, F04-AE01, M04-MD07, F05-MD01\*, F05-MD09, F06-MD04, F06-MD09, M06-MD01

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**Keith R. Williams**, an Associate Professor of Exercise Biology at UC Davis, joined the faculty in 1981. Keith earned a B.S. in physical science in 1971, an M.A. in physical education in 1977, both from UC Davis, and a Ph.D. in biomechanics from Penn State in 1980. His research interests include biomechanics, analysis of gait and movement efficiency, musculoskeletal modeling and; motor learning/control.

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I92-S11\*, I94-S12\*, I98-S15, S01-NS09

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**Jae L. Woo, a Visiting Research Professor in textiles at NC State since 1994, earned a B.S. in textile engineering at Seoul National Univ. (Korea) where he taught textile engineering and process statistics, a S.M. at MIT and a Ph.D. at Univ. of New South Wales (Australia) where he taught machine dynamics, random vibrations, experimental engineering from 1975-85. Jae's research interests include cotton and wool fiber testing, on-line measurements in textile processes, statistical process control, textile mechanisms and variations analysis.**

**I95-A11, I97-S01, F99-NS02, S01-NS12**

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**Dave Woronka, an R&D Project Manager at [TC]<sup>2</sup>, joined the staff in 1993 after 15 years at RCA in custom microelectronics. Dave earned an A.A.S. in electromechanical technology from Union County (NJ) College in 1974 and a B.S. in management from Rutgers in 1979. His research interests include 3-D body scanning and automated pattern alteration.**

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**Yiqi Yang, a Professor of Textile Sciences at Univ. of Nebraska-Lincoln, joined the faculty in 2001 from Professor and Director of Coloration and Finishing at ITT. Yiqi earned an M.Eng. in textile chemical engineering from China Textile Univ. in 1984 and a Ph.D. in textile sciences from Purdue in 1991. His research interests include biotextile engineering, fiber physical chemistry, textile wet processing and textile environmental engineering.**

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**Donggang Yao, an Assistant Professor in Polymer, Textile and Fiber Engineering at Georgia Tech since 2004, earned a B.S. in precision instruments from Shanghai Jiao Tong Univ. in 1991 and an M.S. in 1998 and Ph.D. in 2001, both in mechanical engineering from UMass Amherst. Dong received the 2003 NSF Career Award for research on rapid-production methods for polymer-based microstructures. His research interests include polymer microfabrication, single-polymer composites manufacturing and novel fiber products.**

**F06-GT01\***

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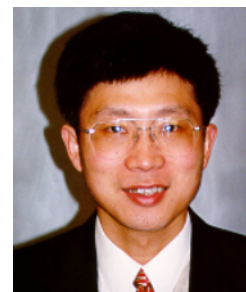
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**Chongwen Yu, a Visiting Scholar at NC State from the Department of Textile Engineering, Donghua University (Shanghai, China), earned a Ph.D. in textile engineering in 1994. Chongwen's research interests include new spinning methods and processing of bast and leaf fiber.**

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**S. Haig Zeronian, a Professor Emeritus at U.C. Davis, earned an M.S. in textile chemistry in 1955 and a Ph.D. in cellulose chemistry in 1962 from Manchester University, England. He was honored with a D.Sc. from there in 1983 for contributions to polymer and fiber science. Haig is a Fellow of the Textile Institute and has received the American Chemical Society's Anselme Payen Award for advances in cellulosic science and technology. He is on the editorial board for *Cellulose*. His research interests include cellulose-water interactions, base hydrolysis of polyester, cellulose oxidation, bleaching and degradation.**



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M01-CR01

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**JunYong Zhu, an Associate Professor at the [Institute of Paper Science and Technology](#), which he joined in 1993. Previously, he was a Research Scientist at a high technology firm in Sunnyvale California. JunYong's research interests include ink jet printing, ink droplet formation, laser based instrumentation for droplet characterization and drop and printing medium interaction.**



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