

NTC Principal Investigators and Researchers

Hechmi Hamouda, a Professor of Textile Engineering, Chemistry and Science at NC State, joined the faculty in 1996. He holds an M.S. from Ecole Nationale d'Ingénieurs de Tunis (Tunisia) and a Ph.D. in mechanical engineering from the State Univ. of New York at Buffalo in 1985. Hechmi was then a research fellow for U.S. Energy Dept. His research interests include thermal and fluid science applications to textiles, esp. infra-red and radio frequency heat treatment, thermal evaluation and testing of fire protective fabrics.

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Timothy Hanks, a Professor of Chemistry at Furman Univ., joined the faculty in 1990. He earned a B.S. in chemistry from South Dakota School of Mines and Technology in 1982 and a Ph.D. in organic chemistry from Montana State in 1986. After postdoctoral research at Univ. of Minnesota, Tim was a visiting Assistant Professor at Clemson. His research interests include nanoporous solids, organometallic polymers for microelectronics and electro-responsive polymers for non-linear optics, catalysis and sensing applications.

M98-C01, M01-CL07

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Padmini Srinivasan Hands, a Visiting Research Professor in Textile and Apparel Technology and Management at NC State joined the staff in 1994 from the U. of Southwestern Louisiana faculty. She earned a Ph.D. in computer science at Tulane. She also earned a masters in business management from Asian Institute of Management (Manila) in 1981, having previously been a management trainee at the Indo-Phil Textile Mills (Manila). Padmini's research interests include knowledge representation, work flow analysis, intelligent robotic systems and fuzzy logic systems.

I94-S12, I96-S15, S01-NS09

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Sarah Harcum, an Associate Professor of Bioengineering at Clemson, Sarah earned a B.S.E. in bioengineering from Univ. of Michigan in 1986, an M.S. in chemical engineering from Colorado State Univ. in 1988 and a Ph.D. in chemical engineering from Univ. of Maryland in 1993. Her research interests include recombinant protein manufacturing, especially stress induced proteases in recombinant *Escherichia coli*, glycosylation heterogeneity due to bioprocess conditions produced in mammalian cells and metabolic engineering of *E. coli*.

M02-CL04, M05-CD01

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Orlando E. Hankins Sr., an Assistant Professor of Nuclear Engineering at NC State, joined the faculty in 1985. Orlando earned a B.S. in 1980 and a Ph.D. in 1985, both in Nuclear Engineering from NC State. His research interests include low-temperature plasma diagnostic techniques and plasma sterilization, decontamination and processing of textiles and other materials.

C99-NS09

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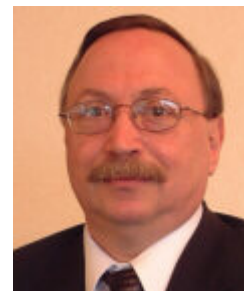
Peter J. Hauser, an Associate Professor of Polymer and Color Chemistry at NC State, joined the faculty in 1997 after a 23-year industrial research career with Milliken, Burlington and Virkler Co. He received a B.S. in 1969 and a Ph.D. in 1974 in chemistry from NC State. Peter's research interests include high performance chemical finishes for enhanced value textiles, indigo dyeing and denim garment wet processing, mathematical modeling of textile wet processes and new textile processes to reduce costs, energy usage and pollution associated with textile wet processing.

C98-S01, C98-S04, C99-S09, C01-NS08, C04-NS01, F06-CR02

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NTC Principal Investigators and Researchers

Helmut H. A. Hergeth, an Associate Professor in Textile and Apparel Technology Management at NC State, joined the faculty in 1991 from being an export and marketing manager at Akso Nobel. Helmut earned a B.S. in textiles from NC State in 1980 and a Ph.D. in business administration and economics from Westfälische Wilhelms-Universität, (Münster, Germany) in 1986. His research interests include product costing and strategic and textile technology management.



I92-A07, I92-S04, I97-S08*, I97-S10*, S03-PH02

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Janet Hethorn, an Associate Professor in Apparel Design at Univ. of Delaware since 1998, earlier taught at UC Davis, Minneapolis College of Art and Design and Colorado State Univ. Janet earned a B.A. in consumer studies at Central Washington Univ. in 1980 and a Ph.D. in textiles and clothing from Univ. of Minnesota in 1987. She was the Int. Textiles and Apparel Association's 2001 Outstanding Designer. Her research interests include apparel design problem solving towards meeting the needs of consumers (such as youth style and street style), garment fit and image databases for product development.



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Juan P. Hinestroza, an Assistant Professor of Fiber Science at Cornell, joined the faculty in 2005 from the faculty of NC State. Juan earned a B.S. from Univ. Industrial de Santander (Colombia) and a Ph.D. from Tulane in 2002, both in chemical engineering. Prior to graduate school, Juan was a process control engineer for Dow Chemical. He is a recipient of the 2005 NYSTAR JDW Young Investigator Award. His research interests include directed self-assembly to tailor textile barrier properties as well as scanning probe microscopy to assess highly curved nanoscale surfaces.



C05-NS09, F06-CR02*

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David Hinks, an Associate Professor and Program Director for Polymer and Color Chemistry in Textiles at NC State, joined the faculty in 1993 as a research associate upon earning a Ph.D. in organic dye chemistry from Univ. of Leeds (U.K.) where he had earlier received a B.S. in colour chemistry in 1989. From 1996-98 David was an R&D Chemist at Milliken & Co. His research interests include computer-aided colorant design, synthesis and application of dyes and pigments and functional chemistry in supercritical fluids.



M95-S22, C99-CL03, C01-CL01, F03-NS03s, C04-NS11*

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Douglas E. Hirt, an Associate Professor of Chemical Engineering at Clemson, joined the faculty in 1990 after a year as a Research Associate at NASA's Langley Research Center. Doug earned a B.S. (1982) and M.S. (1984) from Virginia Tech and a Ph.D. from Princeton in 1989, all in chemical engineering. His research interests include diffusion in polymers and surface modification of polymer films and fibers.



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George L. Hodge, an Associate Professor in Textile and Apparel Technology and Management at NC State, joined the faculty in 1987 and earned a Ph.D. there in industrial engineering in 1990 and a B.S. in nuclear engineering in 1978. He also has an M.S. in industrial and systems engineering in 1983 from Ohio St. He has held engineering positions with Ohio State Univ. and Carolina Power & Light. His research interests include economic analysis, multi-attribute decision analysis, expert systems, technology management, systems modeling and computer integrated manufacturing.



I92-S11, I94-S12, I96-S15, F98-S12, S99-NS10*, F01-NS14

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NTC Principal Investigators and Researchers

Jonathan Hodgson, a Professor in the Mathematics and Computer Sciences at St. Joseph's Univ, was Chairman of the Dept. 1991-97. Previously (1983-91), he was Professor and Chairman of the Dept. of Mathematics and Computer Science at Adelphi Univ. Jonathan earned a B.Sc. and Ph.D. in mathematics from Trinity College, Cambridge (UK). His current research interests include the application of logic programming to web search and document understanding, and constraint programming.

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Nancy Jo Howard, an Assistant Professor in the School of Textiles and Materials Technology at PhiladelphiaU, joined the faculty in 1981 after earning an M.S. in materials science from the Univ. of Connecticut in 1976 and a Ph.D. in polymer & fibre science from the Univ. of Manchester Institute of Science & Technology (England) in 1979. Nancy's research interests are color science education, including colorimetrics in areas such as effluent remediation and batch-to-batch shade variations due to dyebath variables.

C00-PH01*, C03-PH01

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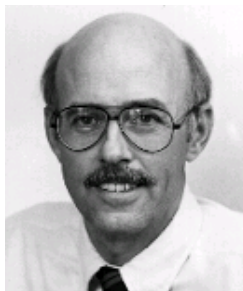
Thom J. Hodgson, the James T. Ryan Professor of Industrial Engineering and Director of the Integrated Manufacturing Systems Engineering Institute at NC State, joined the faculty in 1983 from 13 years on Univ. of Florida's faculty and at Ford Motor Co. He earned a BSE in science engineering, a MBA in quantitative methods and a Ph.D. in industrial engineering all from University of Michigan. Thom's research interests include production scheduling, inventory control, logistics, real-time control of systems and applied operations research.

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Benjamin S. Hsiao, a Professor of Chemistry at SUNY Stony Brook, earned his B.S. from National Taiwan University in chemical engineering in 1980 and a Ph.D. from Univ. of Connecticut in materials science in 1987. From 1989-97 Ben was a research scientist at DuPont Fibers and Central Research. His research interests include structural and morphological development and manipulation of complex polymer systems during preparation and processing in real time and nanostructured soft condensed materials.

M01-GT04

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Hoon Hong, a Professor of Mathematics at NC State, joined the faculty in 1997 after six years at the Research Institute for Symbolic Computation at Johannes Kepler Univ (Austria). He earned a B.S. in physics from Seoul National Univ. in 1979 and an Ms.D in 1988 and Ph.D. in 1990, both in computer science at Ohio State. Hoon is editor of *Journal of Symbolic Computation*. His research interests include computational algebra and geometry and quantified constraint solving.

S00-NS15

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You-Lo Hsieh, a Professor of Fiber and Polymer Science at UC Davis and a Professor of Wood Science and Technology at UC Berkeley, joined the faculty after earning a Ph.D. in polymer chemistry from Univ. of Maryland in 1981 and a B.S. in textiles from Fu-Jen Univ. (Taiwan) in 1975 and an M.S. in textiles from Auburn in 1977. You-Lo's research interests include ultra-fine and porous fibers, wetting and absorbent properties, surface reactive fibers for supporting biologically significant molecules and smart polymers, synthesis of biobased polymers and developing and transgenic cotton fibers.

M02-CD03, M02-CD05*, S02-CD01, C03-CD01s*, C04-CD06s*, M04-CD01*, M05-CD01*

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NTC Principal Investigators and Researchers

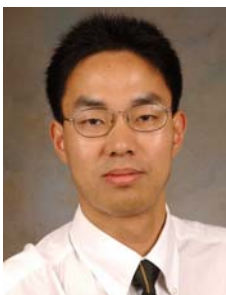
Yong Huang, an Assistant Professor of mechanical engineering at Clemson, joined the faculty in 2003. Yong earned a B.S. in mechatronics engineering from Xidian Univ. (China) in 1993, M.S. degrees in mechanical engineering from Zhejiang Univ. (China) in 1996 and Univ. of Alabama in 1999, and in 2002 from Georgia Tech, an M.S. in electrical and computer engineering and a Ph.D. in mechanical engineering. His research interests include advanced manufacturing process development, modeling, monitoring and control.

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Graham Hutton, an Analyst in Size-Shape-Fit Research at Nottingham Trent Univ. (UK), joined the staff in 1997 as a clothing analyst, then development manager for 3D analysis software for Computer Clothing Research/CCR Ltd in 1999. Graham earned First Class Honours in mathematics from Bath Univ. (UK) in 1989 and an M.S. in human computer interaction from Nottingham Univ. in 1991. His research interests include improving apparel fit via large-scale sizing surveys, human body modeling and shape analysis.

S01-AC27

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Samuel M. Hudson, an Associate Professor at NC State, joined the faculty in 1987. He is also an Adjunct Assistant Professor in Art Conservation for the University of Delaware. Sam received a Ph.D. in fiber and polymer science at NC State in 1981 whereupon he became a senior chemist for DuPont before returning to NC State. His research interests include the development of "environmentally-friendly" fibers, especially chitin and chitosan, and micromechanics of bone fracture.

M93-S05*, M98-A16, C02-PH03. F05-NS04

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Jacob Israelachvili, a Professor of Chemical Engineering at UC Santa Barbara and Assoc Dir of the Materials Research Lab, joined the faculty in 1986. He earned a Ph.D. in physics from Univ. of Cambridge in 1972. Jacob authored *Intermolecular and Surface Forces*. His research interests include intermolecular and intersurface forces in complex fluid systems, including static and dynamic interactions at the molecular level, solid-liquid interfacial phenomena, physical properties of very thin films, and the rheology and tribology of surfaces.

C05-NS09

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Scott M. Husson, an Assistant Professor of Chemical Engineering at Clemson joined the faculty in 1998 upon earning a Ph.D. at Univ. of California (Berkeley); Scott also earned a B.S. from Penn State in 1993, both in chemical engineering. His research interests include bioseparation materials synthesis, molecular imprinting, surface engineering by self-assembly and confined polymerization and spectroscopic studies of protein-polymer interactions.

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Cynthia Istook, an Associate Professor in Textile and Apparel, Technology and Management at NC State, joined the faculty in the fall of 1997. Cindy earned a Ph.D. in textiles and clothing in 1992 from Texas Woman's Univ. She taught there and at Baylor and Univ. of North Texas. She has a B.S. in fashion merchandising, clothing and textiles from Texas Christian in 1976. She was also a department group manager at Federated Department Stores. Her research interests include mass customization, apparel sizing systems, computer-aided-design, technology integration, rapid prototyping, digital printing and 3-D body scanning.

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NTC Principal Investigators and Researchers

Karl I. Jacob, Associate Professor in Textile and Fiber Engineering at Georgia Tech, joined the faculty in 1995 after 6 years in mechanics of composites and molecular modeling of polymers with Dacron* Research and Central Research & Development at DuPont. He earned a B.S. in civil engineering in 1978 from University of Kerala (India) and a Ph.D. in engineering mechanics from Ohio State in 1985. Karl's research interests include polymer solidification, flow induced morphological instabilities, molecular modeling and mechanics.

M96-G19*, M98-G05*, M98-G08*, M00-MD08, M01-GT04*, F02-GT04*, M04-GT11*, F05-GT04*, M05-GT14, M06-GT03
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Warren J. Jasper, an Associate Professor in Textile Engineering at NC State, joined the faculty after receiving a Ph.D. in aeronautics and astronautics from Stanford in 1991. Upon receiving his B.S. and M.S. from M.I.T. in 1983, Warren joined the technical staff at Hughes Aircraft's Space and Communications Group. His research interests include automated manufacturing and real-time data acquisition and control of textile processes.

C92-S10, C94-ST01, I94-G02, C95-S04, I97-S01, C99-NS02, S01-NS12, C04-NS11

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Michael Jaffe, a Professor of Biomedical Engineering and Chemistry and Director of the [Medical Device Concept Laboratory](#) at the New Jersey Institute of Technology, joined the staff ~1986 from Lockheed. Mike earned a B.A. in chemistry in ~1963 from Cornell and a Ph.D. from Rensselaer Polytechnic Institute in 1967 whereupon he joined Hoechst Celanese eventually becoming a Research Fellow. He is chairman of the U.S. Policy Committee for IUPAC. His research interests include understanding the structure-property relationships of polymers and related materials, application of biological paradigms to materials design and the translation of new technology to commercial reality.

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ByoungHo Jin, an Associate Professor of Design, Housing and Merchandising at Oklahoma State Univ., joined the faculty in 2001 from service as a consultant and research associate at various institutions in Seoul. ByoungHo earned a Ph.D. in fashion marketing and merchandising at Yonsei Univ. (Seoul) in 1995 and an A.A.S. in fashion design from Fashion Institute of Technology (NYC) in 1997 and did a post-doc in international retailing at Michigan State Univ. in 1998. Her research interests include international retailing, global apparel market and global sourcing.

S01-AC31

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Nader Jalili, an Associate Professor of Mechanical Engineering at Clemson since 2000, earned a Ph.D. in mechanical engineering in 1998 from Univ. of Connecticut. Nader served on the Northern Illinois Univ. faculty from 1999-2000. He received the 2002-2005 Clemson Board of Trustees Awards for Faculty Excellence and Ralph E. Powe Junior Faculty Enhancement Award from the Dept. of Energy. His research interests include dynamic modeling and vibration control of distributed-parameters structures, piezoelectric-based macroscopic actuators and sensors comprised of functional nanomaterials and mechatronic systems.

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Jeffrey A. Joines, an Assistant Professor of Textile Engineering at NC State, joined the faculty in 2000. He earned a B.S. in industrial and electrical Engineering in 1990, an M.S. in 1993 and a Ph.D. in 1996, both in industrial engineering, all from NC State. Jeff received the 1997 Pritsker Doctoral Dissertation Award from Institute of Industrial Engineering for the best Ph.D. Dissertation in North America. His research interests include object-oriented simulation, evolutionary optimization, shop floor scheduling and supply chain management.

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Michelle Jones, an Assistant Professor in Textile and Apparel Management at NC State, joined the faculty in 2000 from teaching at UNC - Greensboro. She earned a B.S. in accounting from Hampton Univ. (VA) in 1990 and a Ph.D. in clothing and textiles (business and economic aspects) from Virginia Tech - Blacksburg in 1999. Michelle's research focuses on financial modeling for the textile industry, including capitalization, profitability and forecasting metrics.

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No
photo
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Susan B. Kaiser, Chair and Professor of Textiles and Clothing at UC Davis, joined the faculty in 1980. She earned a B.S. in textiles and clothing in 1974 at the Univ. of Texas (Austin) and a Ph.D. in textiles and clothing in 1977 at Texas Woman's Univ. Susan is author of The Social Psychology of Clothing. Her research interests include the "tween" apparel market, sensory science, the production-consumption interface and other consumer and cultural studies issues related to textiles, appearance and style.

S02-CD01, S02-CD02, S02-CD04*, S05-AC02,

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Dayalan Kasilingam, a Professor of Electrical Engineering at UMass Dartmouth, joined the faculty in 199_. Dayalan earned a B.A. in electrical sciences from California Inst. of Technology (CIT) in 1981, an M.S. in 1982 and a Ph.D. in 1987, both in electrical engineering from CIT. His research interests include applied electromagnetics, remote sensing, wireless communications and adaptive signal processing

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Jai-Ok Kim, an Associate Professor in Consumer Affairs at Auburn, joined the faculty in 1993 after teaching textile science 2 years in Korea. Jai-Ok earned a B.S. in house planning, interior design and art from Yonsei Univ. (Seoul) in 1973, an MBA in international marketing and trade at Univ. of Kentucky in 1995 and a Ph.D. in textile sciences from Univ. of Maryland in 1987. Her research interests include consumer shopping behavior and international marketing in Asian markets, international trade, on-line consumer behavior and clothing comfort.

I92-A07, I96-A23, I98-A06, S01-AC31*, S02-AC23

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Yong K. Kim, a Chancellor Professor of Textile Sciences at UMass Dartmouth, joined the faculty in 1981 when he earned a Ph.D. in fiber and polymer science from NC State. Yong also earned an M.S. in textile engineering from Seoul National University (Korea) in 1974. His research interests include micro- and nano-composite materials, textile process design and manufacturing systems and mechanics of fibrous structures.

F97-D01*, F98-D04, M00-MD08*,

M02-MD08, F03-MD01*, S03-MD13s, F04-MD11*, F04-MD12, M04-MD07, F06-MD09

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Martin King, a Professor of Biotextiles and Textile Technology at NC State, joined the staff in 2000 after a 28 yr career at Univ. of Manitoba. Martin earned a B.Sc. in polymer technology from Univ. of Manchester in 1966, and a Ph.D. in biomedical engineering from Univ. de Technologie de Compiègne (France) in 1992. Then he worked at Canadian Industries Ltd. (I.C.I. Fibres Div.), and later Celanese Canada Ltd., as a product development engineer on nylon and polyester and at the Defence Science and Technology Lab at Farnborough, Co Hants. His research interests include biotextiles, biomaterials science, medical textiles and implantable devices.

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Russell E. King, a Professor of Industrial Engineering at NC State, earned a Ph.D. in industrial engineering from the University of Florida. Before joining the faculty at NC State in 1986, he worked as a Systems Analyst for Dynamic Corporation of Rockville MD. In 1990, Rusty received an NC State Alumni Outstanding Teacher Award and in 1995 received the Alcoa Foundation Engineering Research Achievement Award and in 2003 received the Technical Innovation in Industrial Engineering Award from the Institute of Industrial Engineers. His research interests include modeling and analysis of the fiber-textile-apparel-retail pipeline.

I92-S04, I95-S02, I98-S01, I98-S12*, S99-MD16, S01-NS01*, S01-NS10*, S04-NS02*

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NTC Principal Investigators and Researchers

Alistair Knox, a Senior Lecturer in Fashion & Textiles and Director of Size-Shape-Fit Research at Nottingham Trent Univ. (England), joined the faculty in 1995 following a 22-year career at Courtaulds Textiles culminating as a Systems Manager in 1994. Alistair earned a B.S. in physics at Manchester Univ. in 1969, an M.S. in physics at Univ. of Michigan in 1970 and a Ph.D. in laser spectroscopy at Manchester Univ. in 1972. His research interests include CAD/CAM and information technology systems, supply chain management and body scanning for health service uses.

S01-AC27

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Jacqueline Krim, a Professor of Physics and Head of [Nanoscale Tribology Lab](#) at NC State, joined the faculty in 1998 from a Professor at Northeastern. Jackie earned a B.A. in physics from Univ. of Montana in 1978 and a Ph.D. in experimental condensed matter physics from the Univ. of Washington, Seattle in 1984. Her research interests include solid-film growth processes and topologies at submicron length scales, nanotribology (the study of friction, wear, and lubrication at nanometer length and time scales) and liquid-film wetting phenomena.

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Richard Kotek, an Assistant Professor in Textiles at NC State since 1999 following 12-years with BASF Corp, earned a M.S. in 1975 and his Ph.D. in 1979 from Lodz Polytechnic (Poland) followed by postdoctoral research at Duke Univ. His research interests include structure/property, processing, and synthesis of fiber forming polymers particularly nylons, polyester and polypropylene for industrial applications.

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Rolf G. Kuehni, an Adjunct Professor in Color Science at NC State, joined the staff in 2000 after a 35-year career with Bayer Corp. (and its predecessors) beginning as Manager of Development and Color Physics to Vice President Marketing/Textile Products, then to VP Staff/Services of Bayer's joint venture DyStar L. P. Rolf earned B.S. equivalent degree as a textile chemist at Fachhochschule Niederrhein (Krefeld, Germany). He is author of [Color Space and Its Divisions: Color Order from Antiquity to the Present](#). His research interest is color science.

C04-NS11

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Mikhail Kouliavtsev, an Assistant Professor of Economics and Statistics at the School of Business Administration at PhilaU, joined the faculty in 2003, upon receiving his Ph.D. in economics from Temple Univ. Mikhail's research interests include applied microeconomics, industrial organization and antitrust policy.

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Satish Kumar, a Professor in Textile and Fiber Engineering at Georgia Tech joined the faculty in 1989. He earned a Ph.D. in 1979 from Indian Institute of Technology (New Delhi). After a post-doctoral at U of Mass., Satish was a scientist at the Atomic Energy Commission of France (Grenoble) and at the Air Force Materials Laboratory (Wright Patterson) and an adjunct associate professor of chemistry at Wright State University. His research interests include structure, properties and processing of polymers, fibers and composites.

F92-S12, M92-G03, M95-S22, M00-MD08, M04-GT21

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Wendy E. Krause, an Assistant Professor in Textile Engineering, Chemistry, & Science at NC State, joined the faculty in 2003 from a Research Scientist position at Lynntech a small technology development company. Wendy earned a S.B from MIT in 1993 and a Ph.D. from Penn State in 2000, both in chemistry. Her research interests include structure-property relationships of macromolecules (polymers), both synthetic and natural, with an emphasis on their mechanical, nano-mechanical and rheological properties.

C05-NS09, C06-NS07*

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http://www.tx.ncsu.edu/faculty_center/directory/detail.cfm?id=342



NTC Principal Investigators and Researchers

Andrey V. Kuznetsov, an Assistant Professor of Mechanical and Aerospace Engineering at NC State, joined the faculty in 1998 after postdocs at Ohio State Univ. and Vienna Univ. of Technology. Andrey earned a Ph.D. in mechanical engineering from Russian Academy of Sciences in 1992. His research interests include numerical and analytical modeling of heat and mass transfer processes; transport processes in porous media and reacting multiphase flows.

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Wi Suk Kwon, an Assistant Professor of Consumer Affairs at Auburn, joined the faculty in 2005. She earned a B.S. at Seoul National Univ. (South Korea) in 1993, an M.S. in textiles and clothing at Iowa State Univ. in 2001 and a Ph.D. in consumer sciences at Ohio State Univ. in 2005. Wi Suk was a regional brand manager at MaxMara Korea, and an R&D manager at Research International. Her research interests include consumer psychology, multi-channel retailing and branding.

S05-AC02, S06-AC04

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Kenneth D. Langley, a Chancellor Professor of Textile Sciences at UMass Dartmouth, joined the faculty in 1968. Ken was a Quality Control Engineer with DuPont prior to attending the Institute of Textile Technology where he earned an M.S. degree in textile technology in 1968. His research interests include short and long staple processing, statistics and quality control, microscopy and animal and recycled fibers.

F97-D02, F03-MD01

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Raymond N. Laoulache, Director of Computing in the Mechanical Engineering Department at UMass Dartmouth joined the faculty in 1988 following postdoc research at Brown Univ. Ray earned a B.S. in 1980 and an M.S. in 1983, both from Northeastern Univ. and a Ph.D. from Brown Univ. in 1987, all in mechanical engineering. His research interests include multiphase fluid flow, thermodynamics, control systems, fluid mechanics, laser doppler anemometry and parallel computing.

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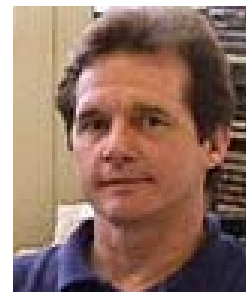
Robert A. Latour Jr, Professor of Bioengineering at Clemson, joined the faculty upon earning a Ph.D. in bioengineering in 1989 at Univ. of Pennsylvania. Bob also earned a B.S. in chemical engineering at Univ. of Virginia in 1979, then spent 5 years as an oil refinery operations engineer at Amoco. His research interests include thermodynamics of biomolecular interactions, specifically protein-surface adsorption and ligand-receptor binding behavior.

M98-CL05, M02-CL04

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Jin Ho Lee, a graduate student in textiles at NC State, earned a B.S. in 1999 and M.S. in 2001, both in textile engineering from Hanyang Univ. (Korea). His research interests include computer integrated manufacturing, real-time systems' control and applied statistics.

F01-NS14

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NTC Principal Investigators and Researchers

Joon-Seok Lee, an Associate Professor Textile Science at Yeungnam Univ. (Korea), joined the faculty in 1996 after he earned a Ph.D. in fiber science and technology from Seoul National Univ. (Korea) in 1994. Joon-Seok also earned an MS in fiber science and technology from there in 1989. His research interests include textile composites, nano composites, 3-D braided fabrics, 3-D woven fabrics and the weaving process.

F04-MD12

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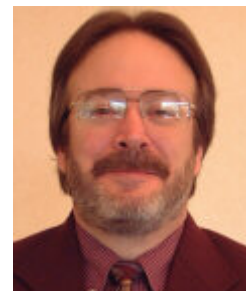
Gary C. Lickfield, an Associate Professor in Textiles, Fiber & Polymer Science at Clemson, joined the faculty in 1986. He earned a Ph.D. there in physical chemistry in 1983 and a B.S. in chemistry from Ursinus College in 1978. Gary's research interests include molecular modeling, polymer surfaces and interfaces modification and characterization, wetting and adhesion.

F92-S12, M95-S22, C97-C03*, M98-CL05, C99-CL03, C00-CL01*, C01-CL01, M02-CL04

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Johannes Leisen, a senior research scientist at Georgia Tech since 1997, received a PhD in chemistry in 1994 from Johannes Gutenberg Univ. in Mainz (Germany) for research conducted at the Max Planck Institute for Polymer Research. He then did research at Fraunhofer Institute for Biomedical Engineering in St. Ingbert (Germany). Hanno's research interests include polymer characterization using NMR spectroscopy and development and applications of spatially resolved NMR techniques in textile sciences.

C97-G31, F00-MD06, M01-GT01, F04-GT05*, F06-GT05

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Trevor J. Little, a Professor and Head of the Textile and Apparel Management Dept. at NC State, joined the faculty in 1984. He received his Ph.D. in textile industries at the Univ. of Leeds (England) in 1974 whereupon he was a research scientist in textile physics at CSIRO (Australia), a professor at PhiladelphiaU and Director of Product Development at Danskin. Trevor's research interests include automated manufacturing and handling systems, sewability and sewing dynamics and apparel manufacturing and management.

I92-S03, I98-S01, I98-S12, S00-NS15, S01-NS10, F02-NS05

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Armand F. Lewis, a lecturer of Textile Chemistry and Environmental Science at UMass Dartmouth, joined the faculty in 1993. He earned a Ph.D. in surface chemistry from Lehigh in 1958 following a B.S. in textile chemistry from the New Bedford Textile Institute and an M.S. in chemistry from Oklahoma State. From 1959-88, Armand was in research at American Cyanamid, Lord Corp. and Kendall. His research interests include adhesion science, flock material and processes, composite materials and the fibrous wiping of surfaces by nonwoven fabrics.

F97-D01, M98-D03, F98-D04, M00-MD08, F03-MD01, F04-MD11, F04-MD12

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Van Dyk Lewis, an Assistant Professor at Cornell, joined the faculty in 2001 from being Head of Fashion at Univ. of Salford (UK). Van Dyk earned a M.A. in 1995 and Ph.D. in 2002 from the Birmingham Institute of Art and Design (UK), and a first degree in fashion and textiles design from Middlesex Univ. (UK) in 1983. His research interests include fashion's political scope, its importance within culture and its ability to channel innovation as influenced by ethnography, social psychology and philosophy.

S05-AC02

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NTC Principal Investigators and Researchers

Meilin Liu, a Professor and Co-Director of Center for Innovative Fuel Cell and Battery Technologies in Materials Science and Engineering at Georgia Tech, joined the faculty in 1992 after 3 years a Research Scientist at Ceramtec (Salt Lake City). Meilin earned a B.S. in 1982 from South China Inst. of Technology and an M.S. in 1986 and Ph.D. in 1989 from UC Berkeley, all in materials science & engineering. His research interests include defects and transport in solids, electrophysical and electrochemical behavior of thin films and interfaces, solid state ionics and electroceramics.

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Suzanne Loker, the J. Thomas Clark Professor of Entrepreneurship and Personal Enterprise in Textiles and Apparel at Cornell, joined the faculty in 1998 from positions at Univ. of Idaho, Univ. of Vermont, Kansas State and Washington State. She earned a Ph.D. from Kansas State in Educational Psychology in 1981, an M.A. from Syracuse in Clothing Design in 1973, and a B.S. from the Univ. of Wisconsin in Apparel Design in 1970. Suzanne's research interests include management of information and production technology, mass customization, applications of 3-D body scanning and socially responsible business practices.

S01-CR01, S04-CR01*

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Peter D. Livant, an Associate Professor of Chemistry at Auburn, joined the faculty in 1977 following a postdoc at the Univ. of Guelph (Ontario). He earned a B.S. at City College of New York in 1969 and a Ph.D. at Brown Univ. in 1975, both in chemistry. During 1974-76, Peter was a postdoctoral fellow and Visiting Assistant Professor at Univ. of Illinois - Urbana. Peter's research interests include synthesis and characterization of theoretically interesting molecules, such as "hypervalent" systems and tertiary amines with unusual steric congestion.

M05-AE11

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Igor Luzinov, an Assistant Professor of Polymer Science at Clemson, joined the faculty in 2000 from stints in physical chemistry at the National Academy of Science (Ukraine), in macromolecules at the Univ. of Liege (Belgium) and from postdocs at Iowa State and Western Michigan Universities. Igor earned an M.S. in chemical engineering and technology in 1985 and a Ph.D. in polymer chemistry in 1990 from Lviv Polytechnic Institute (Ukraine). His research interests include fabrication and characterization of thin polymer films and their utilization for surface and interfacial modification.

C01-CL01, M01-CL03*, M02-CL06, C04-CL06*, C05-CL01*, M05-AE11

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Elizabeth G. Loba, an assistant Professor and a primary core faculty of Biomedical Engineering at NC State, joined in 2003 from being an Acting Assistant Professor of Mechanical Engineering at Stanford Univ. Elizabeth earned an M.S.E. in biomechanical engineering in 1997 and a Ph.D. in mechanical engineering in 2002, both from Stanford Univ. Her research interests include understanding effects of mechanical loads on mesenchymal tissue, mesenchymal stem cell differentiation and tissue engineering structurally robust skeletal tissues that can survive the in vivo mechanical environment.

F05-NS04

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L. Andrew Lyon, an Assistant Professor at Georgia Tech since 1999, earned a B.A. in chemistry from Rutgers in 1992 and a Ph.D. in physical chemistry from Northwestern Univ. in 1996 followed by a postdoc at Penn State in 1997-98. Andrew's research interests include colloidal "quantum dots", hydrogel nano-particles, self-assembled photonic crystals and polymeric biomaterials.

C00-GT03

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