

**Textile and Apparel Technology and Management**  
**Scholarly and Creative Works**  
**May 1, 2010 – April 30, 2011**

**Refereed Publications**

**Carroll, K. E.** (2010). Academic and industry strategies for the solution of a retail problem. Journal of Global Fashion Marketing, 20(3).

Smith-Jackson, T., **Carroll, K.E.**, Kim, S., Suh, M., & Ryu, Y. S. (2010). Socially-smart computing to support older adults with severe visual impairments: Proof-of-concept. International Journal of Gerontechnology, 9(2).

**Carroll, K.E.** & Gross, K. (2010). An Examination of Clothing Issues and Physical Limitations in the Product Development Process. Family and Consumer Science Research Journal, 39(1), 2-17.

Suh, M., **Carroll, K.E.**, & Cassill, N. (2010). Critical Review on Smart Clothing Product Development. Journal of Textile and Apparel, Technology and Management, 6(4).

Ballard, S.M., Jenkins, C., Savut, N.Y., McKinnon, W.H., **Carroll, K.E.** and Escott-Stump, S. "Innovative and Complementary Approaches to Enhancing Older Adults' Ability to Age in Place", Journal of Family and Consumer Science, Vol. 101, Issue 3.

Kincade,D., Kim, J., **Gibson, F.** (2010). Generational consumer segments and shopping process characteristics: Baby Boomers and echo boomers with apparel selection activities. Journal of Global Fashion Marketing, 1, (1).

**Gibson,F.**, Kincade,D. (Fall 2010). Training current and future employees of apparel companies to think like the customer. Journal of Textile and Apparel Technology and Management, (JTATM),6,(4).[On-line]. Available: [www.tx.ncsu.edu/jtatm/](http://www.tx.ncsu.edu/jtatm/)

Kim, M.J. and **Hergeth,H.** (2011). Technology Roadmap for Flushable Nonwovens Wipes, The Journal of the Textile Institute, pp. 1 – 10. [On-line].

Lim, H. & **Istook, C.** (2010). A comparative study on virtual try-on systems using body measurement input. The International Journal of Costume Culture, 13(12), 118-129.

Lim, H., & **Istook, C.** (2010, Fall). Comparison of virtual avatars by using automatic and manual method. Journal of the Korean Society of Clothing and Textiles, 34 (12), 1968-1979.

**Lamar, T.** & Porterfield, A. (2010). Performance and Aesthetics in the Professional Ballet. The International Journal of Sport and Society, Vol. 1, Issue 4, pp. 17-34.

Saraf, R., **Lee, H.**, Michielsen, S., Owens, J., Willis, C., Stone, C., Wilusz, E. (In press). "Comparison of Three Methods for Generating Superhydrophobic Oleophobic Nylon Nonwoven Surfaces," Journal of Materials Science, Online-first Published.

Suh, M. & **Lee, H.** (In press). "Strategic Use of CAD/CAM Technology for Apparel Production," AATCC Review - Technical Review Section.

Satam, D., Liu, Y., **Lee, H.** (2011). "Intelligent Design for Mass Customization," Journal of Textile Institute, 102, 353.

Park, J. & **Lee, H.** (2011). "Computer Aided Technical Design," Journal of Textile and Apparel Technology and Management, 7, 1.

**Lee, H.**, Willis, C., Stone, C. (2011) "Modeling and preparation of a super-oleophobic non-woven fabric," Journal of Materials Science, 46, 3907.

Hayn, R., Owens, J., Boyer, S., McDonald, R., and **Lee, H.** (2011). "Preparation of highly hydrophobic and oleophobic textile surfaces using microwave promoted silane coupling," Journal of Materials Science, 46, 2503.

**Lee, H.**, Owens, J. (2011). "Motion of liquid droplets on a superhydrophobic oleophobic surface," Journal of Materials Science, 46, 69.

Satam, D., **Lee, H.**, Wilusz, E. (2010). "An Approach to Mass Customization of Military Uniforms Utilizing Superoleophobic Nonwoven Fabrics," AATCC Review - Peer Review Section, September/October Issue, 59.

**Lee, H.**, Owens, J. (2010). "Design of Superhydrophobic Ultraoleophobic NyCo," Journal of Materials Science, 45, 3247.

Du, J., Michielsen, S., **Lee, H.** (2010). "Profiles of Liquid Drops at the Tips of Cylindrical Fiber," Langmuir, 26, 16000.

Carpenter, J. & **Moore, M.** (2010). Product Attributes and Retail Format Choice among U.S. Apparel Purchasers, Journal of Textile and Apparel Technology and Management <rest of citation needed>

Alexander, N., Doherty, A.M., Carpenter, J. and **Moore, M.** (2010). Consumer Receptiveness to International Retail Market Entry, International Journal of Retail and Distribution Management, 38, 3, 160-72.

Mousavi P., Hauser P.J., Wang D., Grant C.S., **Oxenham W.** (2010). "Effect of Additive Components on the Thermal Stability of Fiber Finishes", Textile Research Journal, Vol. 80, No. 19, pp 2081-2093.

**Parrillo Chapman, L.**, Shaker, A.M., Powell, N. (In press). A Comparison of Consumer Perceptions of Jacquard Woven and Printed Fabrics for Home Furnishings, AATCC Review, Peer Reviewed.

Chapman, L, Shaker, A., and **Powell, N.**, (In press). "A Comparison of Consumer Perceptions of Jacquard Woven and Printed Fabrics for Home Furnishings", AATCC Review.

Yilmaz, N. D., Banks-Lee, P., **Powell, N.**, Michielsen, S. (2011). Effects Of Porosity, Fiber Size And Layering Sequence On Sound Absorption Performance Of Needle-Punched Nonwovens, Journal of Applied Polymer Science, 121, 2, DOI: 10.1002/app.33312

Yilmaz, N. D., Michielsen, S., Banks-Lee, P., **Powell, N.** (In press). Effects of Material and Treatment Parameters on Noise Control Performance of Compressed Three-Layered Multi-Fiber Needle-Punched Nonwovens, Journal of Applied Polymer Science.

Vallabh, R., Ducoste, J., **Seyam, A.M.**, Banks-Lee, P. (2011). Modeling Tortuosity in Fibrous Porous Media using Computational Fluid Dynamics, Journal of Porous Media, Vol. 14, Issue **?, ?-?**.

Vallabh, R., Banks-Lee, P., **Seyam, A.M.** (2010). New Approach for Determining Tortuosity in Fibrous Porous Media, Journal of Engineered Fibers and Fabrics (JEFF), Vol. 5, Issue 3, 7-15.

**Seyam, A.M.**, Taylor, D., Mohamed, M.H., Powell, N., and Meng, J. (2010). 3D Woven Composites for Automotive Applications: Structure Parameters/Impact Energy Relationships, World Journal of Engineering, Vol. 7, No. 1, 23-29.

Hamouda, T.M., **Seyam, A.M.**, and Saad, M.M. (2010). Prediction of Failure of 3D Woven Composite Structures using Embedded Fiber Optic Sensors, World Journal of Engineering, Vol. 7, No. 1, 103-112.

Liu, L., **Seyam, A.M.**, and Oxenham, W. (In press). Frictional Electrification of Polymeric Surfaces, Journal of Engineered Fiber and Fabrics.

Liu, L., **Seyam, A.M.**, and Oxenham, W. (In press). Contact Electrification of Polymeric Surfaces, Indian Journal of Fiber and Textile Research.

**Seyam, A.M.** and Mathur, K. (In press). A General Geometrical Model for Predicting Color Mixing of Woven Fabrics from Colored Warp and Filling Yarns, Fibers and Polymers Journal.

Liu, L., Theyson, T., Oxenham, W., and **Seyam, A.M.** (In press). Electrification of Antistatic treated Polymeric Surface, Journal of Textile Institute.

Liu, L., Oxenham, W., **Seyam, A.M.**, and Theyson, T. (In press). Effect of Relative Rubbing Speed on the Tribo-electrification of Continuous Filament Yarn by Stainless Steel Pin, Journal of Textile Institute.

Kim, Jong S., Huh, You and **Suh, M.W.** (2010). A Method to Generate Autocorrelated Stochastic Signals Based on Random Phase Spectrum, Journal of the Textile Institute, Vol. 101, No. 5, pp 471-479.

Ren, J, Chung, J., Stoel, L. & **Xu, Y.** (In press). Chinese dietary culture influences consumers' intention to use imported soy-based dietary supplements: an application of Theory of Planned Behavior. The International Journal of Consumer Studies.

Chung, J. , Stoel, L., **Xu, Y.** & Ren, J. (In press). Predicting Chinese consumers' purchase intention for imported soy-based dietary supplements. British Food Journal.

Meng, F. & **Xu, Y.** (In press). Tourism shopping: planned, impulse or Experiential? - A conceptual exploration. International Journal of Culture, Tourism and Hospitality Research.

### **Refereed Articles in Review/Revision**

Allen, R., Parrish, E., **Cassill, N.**, & Oxenham, W. Development factors and implementation issues surrounding a niche marketing strategy in the textile and apparel industry. Journal of the Textile Institute.

Allen, R., Parrish, E., **Cassill, N.**, & Oxenham, W. Assessing the validity of a niche strategy model in predicting the potential and success of niche markets and products. Journal of the Textile Institute.

**Gibson,F.**, Kincade, D. Using marketing competitions to teach students how to integrate facts and theory to solve problems in the business world. Journal of Global Fashion Marketing.

Newcomb, E., & **Istook, C.** Confronting stereotypes: Apparel fit preferences of Mexican-American women. Journal of Fashion Marketing and Management.

Lim, H., & **Istook, C.** Virtual garments on the direct and manual virtual avatars. International Journal of Clothing Science and Technology.

Lim, H.& **Istook, C.** Drape simulation of three-dimensional virtual garments enabling fabric properties. Fibers and Polymers.

Tan, P., Zhang, J., **Lee, H.** "Multi-scale Re-entrant Self-cleaning Superhydrophobic Superoleophobic Textile Surfaces," AATCC Review.

Du, J., Michielsen, S., **Lee, H.** "Profiles of Liquid Drops at the Bottom of Cylindrical Fibers Standing on a Flat Substrate," Langmuir.

Zhang, J., Du, J., Michielsen, S., **Lee, H.** "Gibbs Free Energy of Liquid Drops on Conical Fibers," Langmuir.

Liu, R., **Little, T.**, & Williams, JR. Evaluation of Elite Athletes Psycho-physiological Responses to Compression Form-fitted Athletic Wear in Intensive Exercise based on 5Ps Model, Journal of Sports Sciences (SCI) (RJSP-2011-0207).

Parrillo Chapman, L. & **Little, T.** Textile Design Engineering within the Product Shape, Journal of the Textile Institute.

Leksrisompong, C. & **Little, T.** "Requirements for Sleeping Bags Designed for Extreme Conditions" <Journal Name?>

Craven, J. & **Little, T.** Competitiveness and Innovation Frameworks for Performance Textile Firms. Journal of Textile Institute.

Alexander, N., **Moore M.**, Doherty, A.M & Carpenter, J. (2011). Modeling Brand Origin Recognition Accuracy. <Journal Name?>

**Parrillo Chapman, L.**, Little, T. Textile Design Engineering within the Product Shape. Journal of the Textile Institute.

Polston, K., **Parrillo Chapman, L.** Creating a Color Management Process for Ink Jet Digital Textile Printing, AATCC Review (Peer Reviewed).

Yilmaz, N. D., **Powell, N.**, Banks-Lee, P., Michielsen, S. Effects of material and treatment parameters on noise control performance of thermally treated or alkalinized three-layered multi-fiber needle-punched nonwoven composites, Journal of Sound and Vibration.

Nawalakhe, R. **Seyam, A.M.**, Hudson, S., Waly, A., Abou-Zeid, N.Y., & Ibrahim, H.M., High Surface Area Nanofiberwebs from a Chitosan Imino Derivative, Journal of Engineered Fibers and Fabrics.

Kim, J.S., **Suh, M.W.** & Huh, Y. Analysis of Sliver Thickness Variation from Process Perturbations in Roller Drafting, Journal of The Textile Institute.

Lim, M., **Suh, M.W.**, Gaskill, L. & Giddings, V. The Changing Pattern of U.S. Textile Trade under NAFTA, Journal of The Textile Institute.

Chun, H., **Suh, M.W.**, Berger, R. and Bloomfield, Probabilistic Modeling for Fiber Segments within a Bounded Area of Two-Dimensional Webs, Journal of Korean Statistical Society.

Jo, W., **Suh, M.W.**, Grady, P., Chun, S.Y., Yoon, W.S., Lyoo, W.S. & Han, S.S. Approximated Human Body Surface Satisfying User Specified Error Bound, Textile Research Journal.

Hamilton, B.J., Oxenham, W., Hodge, G.L., **Thoney, K.A.** Optimal data use in staple yarn manufacturing. Journal of the Textile Institute.

Hartman, L., Joines, J.A., King, R.E., **Thoney, K.A.** The effect speed and replenishment flexibility has on overall costs of sourcing apparel products. Journal of the Textile Institute.

Lobo, B.J., Hodgson, T.J., King, R.E., **Thoney, K.A.**, Wilson, J.R. Allocating manpower to minimize Lmax in a job shop, I: Optimizing the lower bound. IIE Transactions.

Lobo, B.J., Hodgson, T.J., King, R.E., **Thoney, K.A.**, Wilson, J.R. Allocating manpower to minimize Lmax in a job shop, II: Optimality criteria and performance evaluation. IIE Transactions.

Sas, I., Joines, J.A., **Thoney, K.A.** Methods of forecasting waste streams and their application to textile waste. Textile Progress.

**Thoney, K.A.**, Joines, J.A., Hodgson, T.J., King, R.E., & Sutton, A. Scheduling a two-plant apparel operation. Production Planning & Control.

**Thoney, K.A.**, Cho, E., Hodgson, T.J., Joines, J.A., King, R.E., & Manninagarajan, P. Rolling horizon scheduling of single factories and multi-factory supply chains. Production and Operations Management

### **Scholarly Publications (including Proceedings)**

**Gibson,F.**, Webster,N. (2011).Design creativity and innovation: A 360° approach. Donghua University 2011 Fashion Week Forum, Shanghai, China.

**Hergeth, H.**, Simulating Sudden Change and the Value of Timely Information, 38th Annual Conference Proceedings for ABSEL (Association for Business Simulation and Experimental Learning), Developments in Business Simulation and Experimental Learning, Volume 38, 2011, pp. 62 to 64.

**Hergeth, H.**, Technology Roadmapping and Knowledge Creation, Proceedings 2011 New Orleans International Academic Conference, Paper BUS 123, ISSN Number: 1539-8757 (print); 2157-9660 (online), New Orleans, March 14 – 16, 2011.

**Hergeth, H.**, Heinisch, M. & Rödel, H. Added Value in Luxury Brands Through RFIDs, Proceedings 2011 New Orleans International Academic Conference, Paper BUS 124, ISSN Number: 1539-8757 (print); 2157-9660 (online), New Orleans, March 14 – 16, 2011.

Sherman, R. & **Hergeth, H.** Alpaca, Cashmere, and Branding: What Does Fiber Contents Mean for Branding?, Proceedings 2011 New Orleans International Academic Conference,

Best Paper Award, BUS 125, ISSN Number: 1539-8757 (print); 2157-9660 (online), New Orleans, March 14 – 16, 2011.

**Lamar, T.** (Editor, Graphic Designer). (2010). Building Alliances: 2010 International Textile and Apparel Association Design Exhibition Catalog, Knoxville, TN, USA, International Textile and Apparel Association. ISBN: 1-885715-09-9.

**Lamar, T.**, Powell, N. and Parillo-Chapman, L., (2010, June). “Integrated System to Design/Produce Engineered Knit Garments,” NTC Project S09-NS02 Research Brief, available online at <http://www.ntcresearch.org/pdf-rpts/Bref0610/S09-NS02-10.pdf>

**Lamar, T.**, Powell, N. and Parillo-Chapman, L., (2010, October). “Integrated System to Design/Produce Engineered Knit Garments,” NTC Project S09-NS02 Annual Report, available online at <http://www.ntcresearch.org/pdf-rpts/AnRp10/S09-NS02-A10.pdf>

**Lamar, T.** (co-editor with Abee, S., Hoit, S., Chapman, L. and Powell, N.) (2010). The Feel of Dreams. Second Cotton Incorporated Fabric for Life Design Challenge Gallery Exhibit book.

Carpenter, J., **Moore, M.**, Doherty, A.M., Carpenter, J. (In press). Acculturation to Global Consumer Culture: Investigating the Roles of Consumer Socio-demographics Annual meeting of the European Institute for Retailing and Service Studies (EIRASS), July, San Diego, CA.

Alexander, N., **Moore, M.**, Doherty, A.M. (2011). Modeling Brand Origin Accuracy. Proceedings of the Second Annual Thought Leaders International Brand Conference, March, Lugano, Switzerland.

Hamilton B.J., **Oxenham W.**, Hodge G.L., Thoney, K.A., “Process and Product Data Management for Staple Yarn Manufacturing”, Proceedings of The Textile Institute Centenary Conference, Manchester, Nov. 3-4, 2010, pp. 1 – 6.

Allen M.R., Parrish E., **Oxenham W.**, Cassill, N.L., “Competitive Analysis of Niche Product Supply Chain Members”, Proceedings of The Textile Institute Centenary Conference, Manchester, Nov. 3-4, 2010, pp. 1 – 12.

Sahbaee A., **Oxenham W.**, Pourdeyhimi B., “Novel Mechanism for Fabricating Aligned Electrospun Nano Fibers and Converting them to a Yarn”, Proceedings of The Textile Institute Centenary Conference, Manchester, Nov. 3-4, 2010, pp. 1 – 7.

**Oxenham W.**, Moore S.T., Cassill, N.L., Parrish E.D., “Impact of Global Issues in Textile Manufacturing with a Specific Focus on Short Staple Yarn Manufacturing”, Proceedings of The Textile Institute Centenary Conference, Manchester, Nov. 3-4, 2010, pp. 1 – 42.

Erdumlu N., **Oxenham W.**, Ozipek B., “Evaluation of Fuzz of Fabric Surfaces Knitted from Cotton Vortex Spun Yarns”, Proceedings of 10<sup>th</sup> Autex World Conference, Vilnius, Lithuania, June 21-23, 2010.

**Oxenham W.**, Liu L., Seyam A.M., Theyson T., Static Electrification Generated by The Interaction of Yarns and Guides, Proceedings of 7<sup>th</sup> International Conference of the Research Division, NRC, Cairo, October 10-12, 2010, pp. 74 – 84.

**Oxenham W.**, “US Spinning Sector Advantages”, Textile Month International, Issue 1, 2011, pp. 24-27.

Yilmaz, N. D., Hughston, C. K., **Powell, N. B.**, Banks-Lee, P., A Statistical Approach To Determine The Influence Of Compression Molding On Sound Absorptive Characteristics Of Nonwoven Composites, Proceedings of 13<sup>th</sup> International Materials Symposium (IMSP’2010), p. 8-14, Denizli, Turkey, 13-15 October 2010.

Yilmaz, N. D., Hughston, C. K., **Powell, N. B.**, Banks-Lee, P., A Statistical Approach To Determine The Influence Of Compression Molding On Sound Absorptive Characteristics Of Nonwoven Composites, 13<sup>th</sup> International Materials Symposium Abstracts Booklet, p. 2, Denizli, Turkey, 13-15 October 2010.

**Seyam, A.M.**, Hudson, S., Nawalakhe, R. and Ibrahim, H.M., Waly, A., Abou-Zeid, N.Y., Healing Performance of Wound Dressing from Bio-Based Fibers, Proceedings of the 39<sup>th</sup> Textile Research Symposium, Indian Institute of Textile Technology, Delhi, New Delhi, India, December 16-20, 2010 (Invited).

**Seyam, A.M.**, Laney, M.L., and Clapp, T.G., Three-Dimensional Woven Composites from Natural Fibers and Resins, Proceedings of the 39<sup>th</sup> Textile Research Symposium, Indian Institute of Textile Technology, Delhi, New Delhi, India, December 16-20, 2010.

Oxenham, W., Liu, L., Suh, M., **Seyam, A.M.**, and Theyson, T., Static Electrification Generation by Interaction of Yarns and Guides, Proceedings of the 7<sup>th</sup> International Conference of Textile Research Division, National Research Center, Cairo, Egypt, October 10-12, 2010 (Invited).

Vallabh, R., **Seyam, A.M.**, Banks-Lee, and Ducoste, J., Tortuosity in Fibrous Porous Media, Proceedings of the 7<sup>th</sup> International Conference of Textile Research Division, National Research Center, Cairo, Egypt, October 10-12, 2010 (Invited).

**Suh, M.W.** Future of Textile Quality and Technology- Can They Unshackle the Global Supply Chains? Proceedings of The Fiber Society 2011 Technical Conference, May 23- 25, 2011, Hong Kong (Invited).

**Suh, M.W.** Assessment of Modeling For 100 Years of Textile Research- Good Models, Bad Models and Wrong Models Proceedings of The Fiber Society 2010 Technical Conference, May 11- 14, 2010, Bursa, Turkey (Invited).

Hamilton, B.J., Oxenham, W., Hodge, G.L., **Thoney, K.A.** Process and product data management for staple yarn manufacturing. Proceedings of the Centenary Conference 2010 of the Textile Institute.

**Xu, Y.** & Chung, J. (2011). Middle-class Chinese consumers and luxury fashion products: how strong is the love? Proceedings for American Collegiate Retailing Association Spring Meeting, Boston, MA.

### **Chapters in Books**

**Istook, C.,** Newcomb, E., & Lim, H. (2011, In Press). 3D technologies for apparel and textile design. In J. Hu (Ed.), Computer Technology for Textiles and Apparel. Cambridge, UK: Woodhead Publishing.

**Lamar, T.A.M.** (in press). Integrated digital processes for design and development of apparel Chapter 15 in Hu, J. (ed.) Computer technology for textiles and apparel, Woodhead Publishing Limited, Cambridge, UK .

**Lee, H.,** "Improving Superhydrophobic Textile Materials," Functional Textiles for Improved Performance, Protection and Health, 1st ed., Woodhead Publishing Corp., Cambridge, U.K., 2011. In Press.

**Lee, H.,** Owens, J. "Superhydrophobic Superoleophobic Woven Fabrics," Woven Fabrics, 1st ed., InTech Corp., Rijeka, Croatia, 2011. In Press.

### **Papers and Abstracts in Review**

Lehman, O. & **Carroll, K.** (In review). Development of an Eco Index for Application in the Fashion Product Development Classroom. International Textile and Apparel Association. 2011 Annual Convention, Philadelphia, PA.

**Carroll, K.,** Powell, N. & Suh, M. (In review). Assessment of Factors Affecting Students' Creativity in Fashion and Textiles Product Development Classes. International Textile and Apparel Association. 2011 Annual Convention, Philadelphia, PA.

**Gibson,F.,** Frasier, P. (In review). Partnering with industry to teach undergraduates simple and easy marketing research techniques. International Textile and Apparel Association. 2011 Annual Convention, Philadelphia, PA.

**Gibson,F.,** Frasier, P. (In review). Teaching students the impact of visual merchandising on the retailer's bottom line. International Textile and Apparel Association. 2011 Annual Convention, Philadelphia, PA.

### **Exhibits Curated**

**Lamar, T.** (Co-curator with **Chapman, L.**) Woven and Printed Fabrics for the Home Furnishings Market: NCSU, College of Textiles Fabric for Life Student Design Challenge. Home Décor Exhibition Shenzhen Hometex + Wall & Decor 2011, Shenzhen, China, March 7-10, 2011.

**Lamar, T.** (Co-curator with **Powell, N.**, and **Chapman, L.**) The Feel of Dreams: 2010 Fabric for Life Student Design Challenge ITMA Showtime Exhibit, December 5-8, 2010, High Point, NC.

**Lamar, T.** (Co-curator with **Powell, N.**, and **Chapman, L.**) The Feel of Dreams: 2010 Fabric for Life Student Design Challenge, NC State Craft Center Gallery, December 10-16, 2010, Raleigh, NC.

**Lamar, T.** (Co-curator with **Istook, C.**) RWFF Textile Design Exhibit, Block Gallery, September 30 – November 22, 2010, Raleigh, NC.

**Lamar, T.** (Co-curator with **Powell, N.**, and **Chapman, L.**) Deep Green: Knit Design Challenge, ITMA Showtime Exhibit, June, 2010.

### **Creative Scholarship in Review**

Blaser, S. (**Carroll, K.** directed). *Velasquez-inspired coat*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

Bradley, S. (**Carroll, K.** directed). *Shades of gray*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

Buffkin, T. (**Carroll, K.** directed). *Asymmetrical wedding dress*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

Henry, K., Bolds, D. & Joyner, J. (**Carroll, K.** directed), *Economical Bra for Developing Nations*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

Matthai, M. (**Carroll, K.** directed). *Modernist pantsuit*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

Wei, S. (**Carroll, K.** directed). *Daphne: Lingerie as Outerwear*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

**Lamar, T.** and Brindley, M. *Suit created with blister knits in patterns inspired by woven structures*, 2011 ITAA Annual Conference Design Exhibition submission, Philadelphia, PA, November 2 – 6, 2011.

Wang, C. (**Lamar, T.** directed). *Crocheted Wall Hanging*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

Roth, K. (**Lamar, T.** directed). *Petaled apron*, 2011 ITAA Annual Conference Design Exhibition, Philadelphia, PA, November 2 – 6, 2011.

### **Creative Scholarship Directed**

Waszak, E. (**Lamar, T.** directed), *Retro Modern Flower*, Grand Prize, Springs Creative Daisy Kingdom in the 21<sup>st</sup> century design competition, Awarded April 28, 2011, NCSU College of Textiles, Raleigh, NC.

Zapko, K. (**Lamar, T.** directed), *Shabby Chic*, First Prize, Springs Creative Daisy Kingdom in the 21<sup>st</sup> century design competition, Awarded April 28, 2011, NCSU College of Textiles, Raleigh, NC.

Koontz, H. (**Lamar, T.** directed), *Turtle*, Second Prize, \$250, Springs Creative Daisy Kingdom in the 21<sup>st</sup> century design competition, Awarded April 28, 2011, NCSU College of Textiles, Raleigh, NC.

Stanhope, C. (**Lamar, T.** directed), *Mariposa*, Honorable Mention, Advanced Category, Second Cotton Incorporated Fabric for Life textile design competition “The Feel of Dreams”, November 2010, NCSU College of Textiles.

Waszak, E. (**Lamar, T.** directed), *Peregrine Dream*, Third Place, Beginner Category, Second Cotton Incorporated Fabric for Life textile design competition “The Feel of Dreams”, November 2010, NCSU College of Textiles.

Crigler, L. (**Lamar, T.** directed), *Fresh Beginnings*, Honorable Mention, Beginner Category, Second Cotton Incorporated Fabric for Life textile design competition “The Feel of Dreams”, November 2010, NCSU College of Textiles.

### **Presentations**

Suh, M., **Carroll, K.** & Oxenham, W. Effect of Protective Coating on the Performance of Wearable Antennas, HCI Annual Conference, Orlando, FL, July 2011.

**Carroll, K.** Advice for Women on Working Apparel from 1890 to 1900: A Content Analysis of Ladies' Home Journal and Harper's Bazar, Costume Society of America Annual Symposium, Boston, MA, June 2011.

**Carroll, K.**, Gorga, R., & Joines, S. Textile Products for People with Disabilities: Extension, Engagement and Economic Development in purpose and practice, Include 2011, London, UK, April, 2011.

**Carroll, K.** TPPD project updates presented to Triangle Area Victims with Disabilities Group, Raleigh NC, April 2011.

Suh, M., **Carroll, K.** & Oxenham, W. (Poster) Development of Wearable Antennas in Smart Clothing, ITAA Annual Conference, Montreal, CA, November 2010.

**Carroll, K.** New Perspectives on Clothing for Health and Well-Being, AATCC Advances in Multi-Functional Materials Symposium & NTC Forum, September 12-14, 2010, Greenville, SC.

Ryu, Y., Smith-Jackson, T., **Carroll, K.**, Kim, S.J., & Suh, M. Embodied cognition and inclusive design: Using gestures to elicit user requirements for interactive systems, USA AHFE Annual Conference, July 20, 2010, Orlando, FL.

**Cassill, N.** & Satam, D. (November 11, 2010). Marketing Issues of Sustainability of Textile Products, ITT Sustainability Conference, North Carolina State University, Raleigh, NC.

**Cassill, N.** (November 18, 2010). Visioning the Future of the Textile Industry: 2030. CEO Summit, Worldwide Responsible Accredited Production, Fort Lauderdale, FL.

Lee, H.J., Satam, D., Owen, J., Wilusz, E., & **Cassill, N.** Mass customization of nonwoven military uniforms. Techtexil Conference, May 19, 2010, Atlanta, GA.

**Clapp, Timothy G.**, Six Sigma in Academia and Industry, University of Miami, Miami, Florida, December 8, 2010.

**Clapp, Timothy G.**, Tobacco Textiles: The Opportunity, Glenoit Textiles, Tarboro, NC, July 2010.

**Clapp, Timothy G.**, Tobacco Textiles: Research Update, Parkdale Mills, Gastonia, NC, January 31, 2011.

**Gibson, F.**, Webster, N. (2011). Design creativity and innovation: A 360° approach. Donghua University 2011 Fashion Week Forum, Shanghai, China.

**Gibson, F.**, Kincade, D. (Fall 2011). (Poster) Using marketing competitions to teach students application of facts and theory to solve problems in the business world. International Textile and Apparel Association, Montreal, Canada.

**Hergeth, H.**, Industry Technology Roadmapping as Part of Strategic Planning, Graduate Seminar, College of Textiles, NC State University, Raleigh, September 15, 2010.

**Hergeth, H.**, Experiential Learning in the Classroom and Sustainable Entrepreneurship, Symposium for Executive Education, Coles College of Business, Kennesaw State University, Kennesaw, GA, June 3, 2010.

Lim, H. & **Istook, C.** (2011, April 16). Study on Custom-made MTM CAD System for Mass Customization, 2011 Spring Conference of the Korean Society of Clothing and Textiles, Ewha Womans University, Seoul, South Korea.

Lim, H. & **Istook, C.** (2011, April 2). (Poster) Study on a virtual simulation according to fabric properties 2011 Spring Conference of the Costume Culture Association, Sungshin Women's University, Seoul, South Korea.

Lim, H. & **Istook, C.** (2010, September). 3D Digital Garment for Mass Customization, 2010 International Conference of the Costume Culture Association · Ars Textrina, Chungpa Gallery, Sookmyung Women's University, Seoul, South Korea.

Ma, Y. and **Lamar, T.**, (2011). 3D shaping techniques for knitwear design, Southern Textile Association 2011 Spring Meeting, April 12, 2011, College of Textiles, Raleigh, NC 27695-8301.

**Lamar, T.** and Chapman, L. (2011). Designing innovative products with market appeal, Spring 2011 Home Décor Exhibition, March 7 – 10, 2011, Exhibition Center, Shenzhen, China.

**Lamar, T.** (2011). Learning Textile Design on the Computer: Challenges, Strategies and Observations, 5th International Conference on Design Principles and Practices (Virtual participant), February 2 – 4, 2011, Sapienza University, Rome, Italy.

Du, J., Zhang, J., Mohan, A., Michielsen, S., **Lee, H.** (August 12, 2010) Ultra-oleophobic textile surfaces for removal of CB warfare agents DTRA Technical Review, Springfield, VA.

Du, J., Zhang, J., Mohan, A., Michielsen, S., **Lee, H.** (July 6, 2010) Nano/Micro Scale Surface Modification for Superhydrophobicity and Superoleophobicity International Conference of Composite Engineering, July 5 - 9, 2010, Anchorage, AK.

**Lee, H.** (June 24, 2010) Superhydrophobic Superoleophobic Surfaces for Removal of CBW Agents DTRA Tech Watch Series, Fort Belvoir, VA.

Saraf, R., Michielsen, S., Owens, J., **Lee, H.** (June 1, 2010) Superhydrophobic and oleophobic surfaces for sustainable medical textiles, Sustainable Textiles and Medical Protection, June 1 - 2, 2010, Davis, CA.

Satam, D., **Lee, H.**, Wilusz, E., Cassill, N., Owens, J. (May 19, 2010) Design and Material Considerations for High Performance Military Uniforms, TechTextil – Government Protection, May 18 - 20, 2010, Atlanta, GA.

**Lee, H.**, (November 19, 2010) Modeling of Superoleophobic Surfaces, DTRA CBD S&T Conference, November 15 - 19, 2010, Orlando, FL.

Zhang, J., Du, J., Michielsen, S., **Lee, H.** (November 15, 2010) Design of Conical Fibers to Prepare Ultraoleophobic Surfaces, DTRA CBD S&T Conference, November 15 - 19, 2010, Orlando, FL.

Du, J., Zhang, J., Saraf, R., Mohan, A., Tan, P., Michielsen, S., **Lee, H.**, Owens, J., Willis, C., Stone, C., Wilusz, E., Duncan, S. (November 15, 2010) Design of Re-entrant Superoleophobic Nonwoven Fabric, DTRA CBD S&T Conference, November 15 - 19, 2010, Orlando, FL.

**Oxenham W.** (October 13, 2010) Overview of College of Textiles, Faculty of Engineering - Textiles, Alexandria University, Egypt.

Erskine, R., **Parrillo Chapman, L.** (2011) Evaluation of CAD/CAM for Integral Knitting, Southern Textile Association Conference, Presented April 12 2011, NCSU, COT Raleigh, NC.

Polston, K., **Parrillo Chapman, L.** (2011) Color Management for Digital Textile Printing, Southern Textile Association Conference, Presented April 12 2011, NCSU, COT Raleigh, NC.

Stanhope, C., **Parrillo Chapman, L.** (2011) (Poster) Bast Fiber Research, Southern Textile Association Conference, NCSU, COT Raleigh, NC.

Erskine, R., **Parrillo Chapman, L.** (2010) (Poster) The Integration of CAD/CAM: Advantages and Limitations for Integral Knitting, Cyberinfrastructure at NC State: Student Poster Competition, Raleigh, NC.

Aframian, M., Mcconnell, M., Cockerham, C., **Parrillo Chapman, L.**, Little, T. (2010) IDEA SPARK 2010, Presented April, 2010, Raleigh, NC.

**Parrillo Chapman, L.**, Little, T. (2010) (Poster) Textile Design Engineering within the Product Shape, AATCC 2010 International Conference, May 18-20 at the Georgia World Congress Center (GWCC) Atlanta, GA.

Porterfield, A., **Parrillo Chapman, L.**, Aframian, M. (2010) Digital Printing for Ballet Costumes, United States Institute for Theatre Technology 2010 Conference, Poster Presented April 2, 2010, Kansas City, MO.

**Parrillo Chapman, L.** (2011) Scholarly Research Methodology for Fashion and Textile Design, The 13<sup>th</sup> Annual IFFTI Conference, Fashion and Luxury: Between Heritage and Innovation, Institut Français de la Mode (IFM), Paris, France, Presented on April 12, 2011 (Invited).

Lamar, T., **Parrillo Chapman, L.** (2011). Designing Innovative Textiles with Market Appeal, Home Decor Exhibition Shenzhen Hometex + Wall & Deco 2011, Shenzhen, China, Presented on March 7-10, 2011 (Invited).

Little, T., **Parrillo Chapman, L.** (2010). Design and Development for Sustainability, ITT Workshop on Sustainability, College of Textiles, Raleigh, NC, Presented on November 11, 2010 (Invited).

**Parrillo Chapman, L.** (2010). Sustainable Textile Product Development, SPESA Annual Board Meeting, Sustainability –Everyone has to have a Strategy Session, Charleston, SC, Presented on September 23<sup>rd</sup> 2010 (Invited).

Carroll, K., **Powell, N.B.**, and Suh, M., Assessment of Factors Affecting Students' Creativity in Fashion and Textiles Product Development, April 8, 2011. Poster Session, Talley Student Center, NCSU, Raleigh, N.C.

**Powell, N.B.**, IFAI Asia Conference, Automotive Materials Symposium, Singapore, March 22 – 25<sup>th</sup>, 2011, March 25, 2011, Navigating the Automotive Supply Chain: The challenges of bringing new materials to market (Invited).

**Powell, N.B.**, Hinks, D., Mathur, K., Seyam, A.M., Color Management of Textiles, Intersociety Colour Council Meeting, NCSU, October 7-8<sup>th</sup>, 2010. College of Textiles, Raleigh, NC.

Yilmaz, N.D., **Powell, N.B.**, Banks-Lee, P., Sound Barrier Properties of PLA-Hemp Nonwoven Composites, Fiber Society 2010 Spring Conference Proceedings, p. 105-106, Bursa, Turkey, May 2010 (Oral Presentation).

Parrillo Chapman, Lisa, Erskine, Reva, Lamar, Traci A.M., **Powell, Nancy B.**, & Ruan, CuiCui. (2010, September). (Poster) S09-NS02 Integrated System to Design/Produce Engineered Knit Garments. AATCC Advances in Multi-Functional Materials Symposium & NTC Forum, Greenville, SC.

**Seyam, A.M.**, Hudson, S., Nawalakhe, R. and Ibrahim, H.M., Waly, A., Abou-Zeid, N.Y., Healing Performance of Wound Dressing from Bio-Based Fibers, The 39<sup>th</sup> Textile Research Symposium, Indian Institute of Textile Technology, Delhi, New Delhi, India, December 16-20, 2010 (Invited).

**Seyam, A.M.**, Laney, M.L., and Clapp, T.G., Three-Dimensional Woven Composites from Natural Fibers and Resins, The 39<sup>th</sup> Textile Research Symposium, Indian Institute of Textile Technology, Delhi, New Delhi, India, December 16-20, 2010.

Oxenham, W., Liu, L., Suh, M., **Seyam, A.M.**, and Theyson, T., Static Electrification Generation by Interaction of Yarns and Guides, 7<sup>th</sup> International Conference of Textile Research Division, National Research Center, Cairo, Egypt, October 10-12, 2010 (Invited).

Vallabh, R., **Seyam, A.M.**, Banks-Lee, and Ducoste, J., Tortuosity of Nonwoven Structures, 7<sup>th</sup> International Conference of Textile Research Division, National Research Center, Cairo, Egypt, October 10-12, 2010 (Invited).

**Seyam, A.M.**, Opportunities in Jacquard Weaving, Staubli Technology Days, September 23-24, 2010, Duncan, SC (Invited).

Nelson, R., **Smith, E.** and Baker, T. Two Sides of the Same Coin: Human Capital as Advantage and Dependence in Entrepreneurial Firms. Discussion Paper Session at the Academy of Management. San Antonio, Texas: August 2011.

**Smith, E.** and Baker, T. Beyond Making Do: Toward a Theory of Entrepreneurial Resourcefulness. Babson College Entrepreneurship Research Conference (BCERC). Syracuse, New York: June 2011. Accepted as one of 200 papers (out of 591 abstract submissions).

Senyard, J. **Smith, E.**, Baker, T. & Steffens, P. Regional Disadvantage: the Role of Human Capital Bricolage to Overcome Resource Constraints. Babson College Entrepreneurship Research Conference (BCERC). Syracuse, New York: June 2011. Accepted as one of 200 papers (out of 591 abstract submissions).

**Smith, E.** Addressing a Model of Interdisciplinary Education. Board of Trustees meeting, North Carolina State University. Raleigh, NC: November 2010. Invited participant with the College of Textiles.

**Smith, E.** Forging New Waters: Nonwoven Filtration Innovations. Textile Institute World Centenary Conference. Manchester, UK, November 2010. Accepted as one of eighty-four paper presentations (out of ~300 abstract submissions).

**Smith, E.** Academy of Management. Entrepreneurship Division Doctoral Consortium. Montreal, Canada: August, 2010. Accepted as one of thirty participants.

**Suh, M.** Modeling during 100 Years of Textile Research. The Fiber Society 2010 Technical Conference. Bursa, Turkey, May 11 – 14, 2010 (Invited).

**Suh, M.** Assessment of Modeling for the 100 Years of Textile Research - Good Models, Bad Models and Wrong Models. ICFT 2010 Conference, Shinshu University, Japan, July 15 – 16, 2010 (Invited).

**Suh, M.** Areas of New Technology Development for Intelligent Textiles. 4<sup>th</sup> International Conference on Intelligent Textiles, Seoul National University, Seoul, South Korea, June 16 – 18, 2010 (Invited).

Hamilton, B.J., Oxenham, W., Hodge, G.L., **Thoney, K.A.** Process and product data management for staple yarn manufacturing. Centenary Conference 2010 of the Textile Institute, Manchester, UK, November 4, 2010.

**Xu, Y.** & Chung, J. (2011). Middle-class Chinese consumers and luxury fashion products: how strong is the love? American Collegiate Retailing Association, Boston, MA.