Welcome to the new DHA alumni newsletter. We hope that it will be a way to connect with you about the wonderful things going on in our graduate program and with our students, faculty, and alumni. Do you ever wonder about the status of a certain research project? Perhaps you are curious to see how graduate coursework has changed. Fast Forward will include information about alumni accomplishments and current graduate student projects, and will provide opportunities for you to connect with ideas and people.

The notion of being connected is so prevalent in our daily lives. We connect via e-mail, mobile phones, instant and text messaging, and the Internet. But have you noticed that so much time and energy is spent on the technology that connects us? Much less attention is given to the quality of the communication. Our goal is that you will find Fast Forward to be a meaningful connection with colleagues in your field and that you take advantage of opportunities to share what you are doing, offer to mentor a graduate student, or re-connect with faculty.

Our DHA graduate program is thriving. Sixteen new graduate students entered our program this fall. We currently have 69 graduate students, including 15 Master’s students, 17 MFA students, and 37 doctoral students. They are actively involved in the university community, present their research at professional conferences, and develop innovative design projects. Look for articles in Fast Forward that celebrate this amazing work.

Re-connect with DHA. We would love to have you visit. You can sit in on a class session, share your latest work with students, or visit with faculty. If time or distance prevents you from an in-person visit, you can connect via the Internet. Be a virtual reviewer for a group of design projects! With all of the ways in which we can stay connected, we hope to cultivate a vibrant community of scholarship.

This is your newsletter. What types of articles would you like to see here? Please let us know by sending a message to dhagrad@umn.edu.
The primary research mission of the Human Dimensioning Laboratory (HDL) is to investigate fit and size as an integral component of product development. A National Science Foundation grant funded the establishment of the HDL. Equipment in the laboratory includes a 3-D body scanner, a motion capture system, and prototype production equipment. The body scanner scans a person in 8 seconds from head to toe, capturing the exact 3-dimensional shape of the person with capabilities of extracting 100’s of surface measurements. The body can be analyzed using tools to assess longitudinal and cross-section views and to determine volume of body segments. Body analysis methodologies are being developed in the HDL with specific applications to design of products worn on the body. The motion capture system in the lab is most often used in animation design and to assess athletic performance. HDL researchers are using the system to assess facilitated and restricted motion of people wearing prototype protective apparel. 2D/3D apparel design software is being used to design apparel patterns, test the fit of apparel on virtual models, and to develop mass customization scenarios.

**Examples of HDL projects:**

**BMI and Apparel Sizing:** Subjects ranging in size from Misses 2 to Women’s 3X were scanned to determine effects of BMI (body mass index) and body shape on apparel fit.

**Optimized Pattern Sizing:** Patterns developed with current industry methods to generate sizes within a size range were compared to custom-fitted patterns to propose faster, better methods of producing apparel to fit a range of people, small to large.

**Comparison of Fit Models to Mannequins:** Fit models and corresponding mannequins of a major apparel retailer were scanned to analyze similarities and differences in shape and size.
Scan Images for Fashion Ideation: This project proposed that industry practice could be changed to use scans of real people (a company’s scanned fit model) as the basis for ideation figures.

Liquid Cooling Ventilation Garment (LCVG) Design: (LCVG’s are worn to maintain healthy body temperature in extreme environments such as outer space. HDL researchers worked with researchers in the Laboratory for Human Health and Safety in Extreme Environments to improve design and fit of several LCVG garments.

Residual Limb Study: A collaborative study with Dan Rowe and Associates, a prosthetic and orthotic provider, and a prosthetic design intern, to investigate amputees’ residual limb volume fluctuations and shape changes with the goal of improving prosthetic fit for amputees.

Protective Clothing for Pesticide Applicators: Motion capture technology is being used to assess enhanced and restricted motion of pesticide applicators in current protective clothing and in new designs being designed with researchers from 8 other universities.

HDL Team: Lab Director: Dr. Karen LaBat; Faculty Researchers: Dr. Missy Bye, Dr. Marilyn Delong, Dr. Will Durfee (Mechanical Engineering); Research Associate: Dr. Karen Ryan; Research Assistants: Dr. Ellen McKinney, Ms. Dong-Eun Kim
**Where are they now?**

Ann Braaten (Ph.D., 2005, Apparel Emphasis) is an assistant professor in the department of Apparel, Design, Facility & Hospitality Management at North Dakota State University. Her scholarly pursuits continue in the historical/cultural area, using a material culture studies approach. Recent publications include articles in *Minnesota History Journal* and *the Proceedings of the 32nd Annual Symposium of the Costume Society of America*. Visitors to Fargo and NDSU are welcome!

Paul Bruski (M.F.A., 2005, Interactive Design Emphasis) is an assistant professor in the department of Art and Design at Iowa State University. His recent presentations include "Hijacking the Technical/Conceptual Gap in the Digital Classroom" at SECAC/MACAA; "Cool as Concept: A New Media Monster" at iDMAa; and "Finding Signs: Mapping Meaning in the Neighborhood" at ISU’s symposium "Mapping Territories: Places, People, and Spatial Practices."

Leslie Butterfield (Ph.D. 1990, Design Communication Emphasis) of Butterfield Marketing in Houston, Texas works as a consultant for marketing, sales, and recruiting for software and technology companies. After completing the Ph.D. program, she began a project management software company and has worked in technology ever since. She paints and works on textile design projects in her spare time. She welcomes visits from her Minnesota colleagues.

Nancy Cyr (M.S., 1998, Interior Design Emphasis) works as an interior designer for Home Value Interiors’ corporate headquarters store, specializing in kitchen and bath design. She has attained the first of two levels of certification from the National Kitchen and Bath Association: Associate Kitchen and Bath Designer (AKBD).

Louise Lystig F Ritchie (M.F.A., 2002, Interactive Design Emphasis) is teaching courses in the Department of Design, Housing, and Apparel at the University of Minnesota, including DHA 1312: Color and Design in Two- and Three-Dimensions, DHA 4334: Computer Applications II, and DHA 5341: Interactive Design I.

Jane Hegland (Ph.D. 1995, Apparel Emphasis & Museum Studies Minor), professor and head of the Department of Apparel Merchandising & Interior Design at South Dakota State University. Before joining the faculty at SDSU in 2001, Jane was on faculty at New Mexico State University from 1995-2001. As well as working with Interior Design faculty to achieve accreditation through the Council of Interior Design Accreditation in 2007 and with colleagues in Apparel Merchandising to enhance the major, Jane is collaborating with campus leadership to internationalize the curriculum, to move the campus toward more sustainable practices, and to increase awareness of and appreciation for the various design fields at SDSU. She is also part of a team of faculty who were recently awarded a $655,000 USDA Challenge Grant to internationalize the curriculum. Dr. Nancy Nelson Hodges (Ph.D. 1998), currently on faculty at University North Carolina at Greensboro, is lead investigator on the project.

Mary Kubik McNaughton (Ph.D. 2001, Design Communication Emphasis) has been writing books related to teaching elements and principles of drawing. The first book, entitled *The Little Book of Drawing: A Friendly Approach* was published July 2007, and another book focusing on drawing in color is underway.

Annette Lynch (Ph.D. 1992, Apparel Emphasis), associate professor of Textiles and Apparel at the University of Northern Iowa, is a recipient of the Regents Award for Faculty Excellence. Her achievements related to this award include excellence in the classroom and reinventing/revitalizing the textiles and apparel program to focus on building a science and technology-based curriculum. She has created an industry advisory board, which helped secure corporate software donations for the program, and obtained a National Science Foundation Grant to construct a materials testing lab. As a result of her efforts as project director for the Gender Violence Prevention Initiative, Annette has received an award from the UNI campus police.

Uraiwan (Lek) Pitimaneeyakul Paradee (Ph.D. 2001, Apparel Emphasis), is an assistant professor of Textile Design, Division of Industrial Design, King Mongkut’s Institute of Technology in Bangkok, Thailand. Her recent accomplishments include the completion of curriculum development for textile design; ongoing projects include textile product development, overseas production, and the utilization of banana in textiles.
Patrick Redmond (M.A. 1990, Design Communication Emphasis), the practicing creative director and designer of St. Paul-based brand identity and design firm Patrick Redmond Design (www.PatrickRedmondDesign.com), reports that a logo/trademark he created for flamenco and classical guitarist Michael Hauser has been chosen as a winner in the American Corporate Identity 23 competition, "showcasing the best corporate identity and design in America." Patrick is a member and former president of the Minnesota Chapter of AIGA, the professional association for design (AIGA.org), and is a member of AdFed.org.

Patricia Salmi (Ph.D. 2006, Interior Design Emphasis) has served as one of four Accessibility Consultants to the Science Museum of Minnesota, assessing prototypes of exhibits and programs on nanotechnology. This review was part of the National Institute for Science Education (NISE) and involved science museums from across the nation. She has developed an assessment instrument for people with disabilities for the National Association of State Directors of Developmental Disabilities Services.

Bruce Wright (M.A., 1996, Design Communication Emphasis) is organizing a major exhibition for the Goldstein Museum of Design in collaboration with Dr. Karen LaBat, Apparel faculty. The focus of the exhibition is the use of high-tech textiles by designers in all disciplines, particularly those represented in the College of Design.

Theresa Zborowsky (M.S., 1995, Interior Design Emphasis) is the Director of Healthcare Education and Research for Ellerbe Becket, a nationally and internationally recognized architecture/engineering firm. She facilitates the initiative’s concepts of "knowledge-building" as a tool for understanding the design process, evidence-based design, and the creation of a learning work environment to increase the breadth and depth of innovative design solutions. Terri recently co-taught a graduate course entitled Optimal Healing Environments with MaryJo Kreitzer, Director of the Center for Spirituality and Healing at the University of Minnesota.

To protect you from spam, contact information is not posted. To contact your colleagues, please request via dhagrad@umn.edu.

If you would like to share your scholarly pursuits and accomplishments in the next newsletter, please submit them to dhagrad@umn.edu.