

BioMechanica works at the boundary of industry and academia, helping companies make better products through application of biomechanical research and analysis. We conduct basic and applied research programs, applying the results to the development of new and innovative products. We test and compare products, helping our clients to make their's better by offering independent data, objective analysis and guidance based on experience.

Our research focus is the mechanical interface between people and their environment. We look at the forces produced by human contact and determine how the mechanical properties of shoes, surfaces and protective equipment change those forces. We examine injury statistics and human performance factors, using the results to optimize shoes, surfaces and sports equipment for enhanced comfort and performance and reduced injury risk. Our clients range from large international corporations, to small entrepreneurial companies and individual inventors. Our products are new ideas for athletic, therapeutic and performance footwear, surfaces, protective equipment and measurement systems.

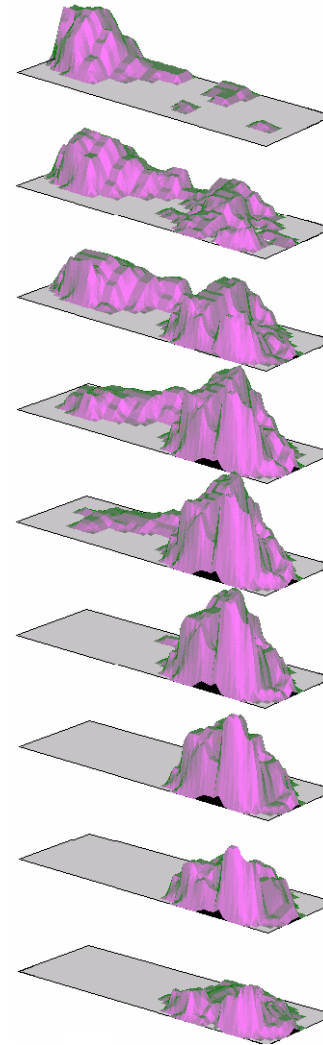


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Research
Testing
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Resumes

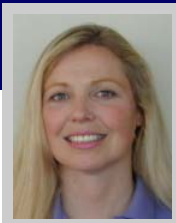


Martyn R. Shorten Ph.D.
Biomechanics Geek-in-Chief

Martyn Shorten received his Ph.D. from Loughborough University, UK, in 1984. Before starting his Research and Development business in 1992, he was employed as Director of the NIKE Sport Research Laboratory and as Director of Research Design and Product Development for PUMA AG.

Shorten has been an active member of the International Society of Biomechanics since 1983 and served on the Society's Executive Council from 2001-2003. In 1993, he established the ISB's Technical Section on Footwear Biomechanics, a international working group of academics, clinicians and industry researchers. Shorten is Chairman of the ASTM Committee on Sports Equipment and Facilities and Chairman of the Athletic Footwear subcommittee and is active in the development of standards for footwear, artificial turf and playground surfacing. He is also a member of the International Sports Engineering Association (ISEA), and a Fellow of the Institution of Analysts and Programmers.

While Shorten's basic and applied research has won international recognition, he is a self-styled "recovering academic", preferring to using science and technology as tools for developing applications and products. He is a frequent author and invited speaker on topics related to the biomechanics of human performance and injury, and their links to athletic footwear and sports surface design. He is an R&D consultant to leading athletic shoe and sports surface manufacturers. His patented inventions form the basis of NIKE's "Tuned Air" and "Footbridge" systems, Puma's "Trinomic Plus" and "Cell" technologies, and the array of footwear, protective equipment and surfacing products that use *Skydex* cushioning materials.



Jennifer A. Himmelsbach, M.S.
Research and Testing

Jennifer Himmelsbach received her Bachelor's and Master's degrees in Exercise Science from Portland State University, finishing in 1988.

Jennifer's career has been largely devoted to supporting the development of athletic shoes, sports surfaces and equipment through research and testing. She has been employed in R&D roles by NIKE, Inc. (Beaverton, OR) and Exeter Research Inc. (Exeter, NH). She has also undertaken numerous research, testing and product development projects as an independent consultant. Before joining **BioMechanica** in 1998, Jennifer was a Research Engineer in the Reebok Human Performance Laboratory where she managed performance testing of prototype footwear, and dynamic perception studies of footwear fit, comfort, and function with human subjects.

Jennifer is a member of the International Society of Biomechanics and of the American College of Sports Medicine.

At **BioMechanica**, Jennifer brings her scientific training and experience working with elite athletes to the management of research, testing and product development projects. Currently, most of her work is focused in the areas of injury prevention, sports surfacing and protective equipment.



DeeDee Remington.
Office Manager

DeeDee Remington has the unenviable task of keeping the team organized. Fortunately for the rest of us, she has a sense of humor. When not keeping order at the office, DeeDee is a highly acclaimed theatrical costume designer. She and her husband, "Broadside Johnny" (a concertina-playing pirate by trade) can also be found on stage, frequently taking on roles with the Northwest Children's Theater and other regional theater groups. As well as keeping us organized, DeeDee adds creative energy and a lively imagination to the team's dynamic.



Mark C. Thompson, B.S.
Research and Testing

Mark Thompson received his B.S. degree in Electrical Engineering from the University of Portland in 1990.

All of Mark's working career has been spent in sporting goods research and product development. He was initially employed as a Researcher and then as Research Laboratory Manager by Avia, Inc. Before recently joining **Biomechanica**, Mark enjoyed five years in Advanced R&D with Adidas America, Inc., as Testing Manager and Development Engineer.

Mark adds his engineering skills and experience in research and advanced R&D to the **BioMechanica** team. His experience developing technical guidelines for designers and product developers is an asset and, as a Licensed Massage Technician, he contributes a unique perspective on human function.

Currently, Mark's focuses his attention on footwear testing, research projects and related product development work.



Misha T. Cat
Feline Services

Misha's primary role is that of Office Cat. When not napping in the boss's office or the conference room, she can usually be found napping in the back of the lab.

Although still working a 40 hour week, Misha is currently on probation for threatening to use a client's sample of in-filled synthetic turf as a litter box.

While awake, Misha focuses on thinking about napping, eating, and interrupting our work with demands for attention and affection — preferably expressed in the form of a belly rub. In other words, Misha provides us with an example of the kind of lifestyle all of us could enjoy if we weren't so busy.