Bahram Mashhoon, Ph.D.
Professor of Physics
University of Missouri-Columbia

In his 27 years at MU, Dr. Bahram Mashhoon has made significant contributions to the field of gravitational physics and general relativity, including more than 185 publications. His many achievements include the discovery of the spin-rotation-gravity coupling, now known as the ‘Mashhoon effect,’ and the gravitomagnetic clock effect. In addition, he has developed extensions of Einstein’s theory of relativity that are more compatible with quantum theory.

As a pioneer and leading authority in the field, Mashhoon’s research has made a lasting impact and his work has been cited in over 4,000 articles and reports. Five years ago, a collection of papers honoring Mashhoon, written by his many friends, collaborators and relativity experts around the world, was published in General Relativity and Gravitation, giving testament to the breadth, depth and scope of his scientific work.

“Bahram is a modest, brilliant and deeply respected physicist in the international community of relativity gravitation and astrophysics,” wrote one nominator.

Mashhoon has served on many important international committees and organizations, including the International Society of General Relativity and Gravitation, and the International Coordinating Committee of the Marcel Grossman Meetings on General Relativity.

Research aside, Mashhoon has been an active faculty member, serving on dissertation committees and enhancing the student experience. Shortly after coming to MU, Mashhoon started a platform for the exchange of research findings and ideas between the physics and mathematics departments known as the Astrophysics-Relativity Seminars. Still held every Tuesday afternoon, these seminars provide a forum for doctoral students to practice their skills in organizing their ideas and presenting before a knowledgeable audience.

Suzanna K. Long, Ph.D.
Assistant Professor of Engineering Management and Systems Engineering
Missouri University of Science and Technology

Dr. Suzanna Long has demonstrated an ability to create a sustainable, highly visible research program grounded in scholarship, effective teaching and service that surpasses even associate and full professors.

Since joining the Missouri S&T faculty in 2008, Long has received 21 grants totaling more than $7 million in research funding. With a research focus on transportation sustainability, she has published more than 60 articles and six book chapters, and presented at 40 conferences. She is a highly sought-after collaborator, has partnered with faculty in a variety of disciplines and has even been invited to submit to the Brookings Institute.

Long teaches at both the undergraduate and graduate levels, and supervises graduate and doctoral students. She is passionate about mentoring the next generation of professionals and emphasizes improving engineering education through student competencies in sustainability science, global business and virtual teaming. She spearheaded the development of an innovative, multicultural team building and virtual exchange program with institutions in Colorado, France, Spain and Puerto Rico. She has been recognized with multiple awards for faculty excellence and her teaching evaluations are well above the campus average.

“She continues to impress me with her technical knowledge and practical approach to research,” wrote one nominator. “Her work with knowledge capture and mentoring is of great importance to the development of future engineers entering the workforce.”

In addition to scholarship and teaching, Long served as the program chair for the 2013 ASEM International Academic Conference and as a board member on both the Institute of Industrial Engineers Society of Engineering Management and the American Society of Engineering Management. She has been a reviewer for the Engineering Management Journal and Decision Sciences Journal for Innovative Teaching.