

Serji Amirkhanian, Ph.D.

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Dr. Serji N. Amirkhanian was the Mays Professor of Transportation and the Director of the Asphalt Rubber Technology Services (ARTS) in the Department of Civil Engineering at Clemson University until June of 2010, before he started his international consulting activities. He was responsible for teaching courses in construction materials (e.g., asphalt, concrete, etc.), construction management, and construction productivity. In addition, he developed a graduate level course in pavement design and analysis and taught it for over twenty years. At this point, he is the Director of Research and Development for Phoenix Industries of Las Vegas. In addition, he is the partner and Director of Research and Development for AET Robotics and Inspection Services of Clemson, SC. He is also been selected to be a Guest Professor at Wuhan University of Technology at Wuhan, China (a city of over 9 million people).

Dr. Amirkhanian started his teaching career in 1987 at Clemson University. His research area of interest is in construction materials, recycling issues and polymers. He has conducted many years of research in hot mix asphalt area for many private companies, SC DOT and Federal government. The total dollar amount of his research contracts exceeded \$14 million. His research has resulted in over 100 refereed journal papers and over 100 conference papers and research reports that are well-cited around the world. He has also published two book chapters.

In addition he has conducted over 200 presentations around the country and the world presenting his research findings. He has supported over 70 graduate and 80 undergraduate students conducting research for the South Carolina Department of Transportation (SCDOT), the Federal Highway Administration (FHWA), the South Carolina Department of Health and Environmental Control (SC DHEC), and private industries (e.g., BMW, Owens Corning, Michelin, Milliken, Honeywell, etc.) over the past 25 years. He has received many honors from various agencies (e.g., student organizations, departmental honors, university, state, etc.).

Dr. Amirkhanian is a recognized international authority on the use of recycled and by-products in construction materials and has been conducting research in this area for many years. In 2000, he did establish the Asphalt Rubber Technology Service (ARTS). This program was the only service of its kind in the world, and Dr. Amirkhanian has been invited to present the research findings of his research team to many state agencies both in the United States and in many foreign countries (e.g., South Korea, China, Canada, France, Spain, Italy, Germany, Belgium, Brazil, Poland, Japan, Singapore, etc.). In recognition of his expertise, he has been elected to

both the technical advisory board of the European Waste Tire Association (the only person from USA for rubberized asphalt) and the technical advisory board of the Rubber Pavements Association (RPA) in the USA.

He is a member of many national and international engineering associations (e.g., American Society of Civil Engineers, Transportation Research Board, Asphalt Association of Pavement Technologies, etc.). He reviews journal papers for many journal publications around the world. He has been asked to review many thesis documentations from students from other countries (e.g., Australia, etc.). He has been the Chair or moderator of many technical sessions all over the world for various international conferences.

He has co-sponsored and conducted four international conferences around USA (Charleston, SC; San Diego, CA, Buffalo, NY and Little Rock, AR) dealing with the use of crumb rubber and plastics to produce molded goods. These conferences were co-sponsored with Rubber Manufacturer Association (RMA) and other agencies around the country.

He was responsible, as the Coordinator, for the certification program for SC DOT program for approximately 18 years. He has developed eight new courses for this program. This program trained and certified thousands of people involved in all projects (earthwork or asphalt related) conducted in South Carolina. This program was sponsored and endorsed by South Carolina Department of Transportation (SC DOT) and Federal Highway Administration (FHWA).

He is conducting consulting work for various major national and international companies at this point. In addition, he is conducting consulting work for the World Bank. At this capacity he has been asked to review the existing flexible and rigid pavement design of a country and give recommendations to governmental agencies, contractors, consultants, and academia. Dr. Amirkhanian is responsible for writing technical specifications (pavement design and mix design for asphalt and concrete) for this country. He has completed this project at this point and it is in the implementation stages of the program.

He lives in Clemson, South Carolina with his wife of 28 years (Kathy) and they have four children, ages ranging from 18 to 24 years of old.