

Howard Kliger, Ph.D.

Howard Kliger, now partially retired in 2017, still continues an active role in the advanced composites industry. His formal training is in composite materials structural design and analysis and he occasionally takes on tasks in composite materials feasibility and tradeoff studies, mechanical testing and compliance/certification assistance and market studies and product introductions. His relevant technical experience includes carbon, glass, and aramid fibers, ultra high modulus graphite fibers, and FRP concrete repair.

For the past 20 years, he was heavily involved with the efforts to introduce FRP materials to the infrastructure market and previous clients included Nippon Steel Composites and Master Builders. He was the secretary of the ACI 440F committee through its development of the guideline for external concrete repair. He was also co-author of a multi client marketing report on the growth of FRP materials in Infrastructure.

Since August of 2002, he has been providing independent testing and inspection services for contractors and DOT's needing QA testing of concrete repair applications.

Some of the broad range of projects he has been involved with include:

Design of an all composite flatbed trailer truck.

Design and prototype development of composite torque shafts for Nascar racers

Design of composite coupling joints for marine driveshafts

Development of material forms for the Prince Vortex tennis racquet and the Abu Garcia Royal Nickel fishing rod

Numerous composite design/stress analyses for pressure vessels, piping, etc.

Technical representative for Japanese company, introducing fiber reinforced material for external concrete repair and reinforcement

Marketing surveys for various products including carbon fibers, honeycomb, diamond films, trailer wheels, carbon fabrics, tension control sensors, etc.

Expert witness for composite related subjects – failure analysis of sporting goods and civil structures reinforcement.

As an Adjunct Professor, Dr. Kliger continues to teach a Mechanics of Solids course and a graduate level composites course at Rutgers University. He also leads a seminar course in Engineering Ethics for senior level civil engineering students.

He has been a member of SAMPE for more than 35 years and presently serves as Program Chair and National Director of the New Jersey chapter. He was Technical Program Chair or General Chair for SAMPE International symposiums in 1989, 1996, 2002, 2006, 2009, and 2012. Also, he originated and conducted the SAMPE Student Bridge and Wing building contests held annually at the SAMPE symposiums from 1998 through 2012.

Dr. Kliger is a SAMPE Fellow.