

**Angela A. (Steffen) Meyer, Ph.D., P.E.**  
**Vice President, Client Services**

**Professional Profile**

Dr. Angela Meyer is the Vice President of Client Services for Exponent. Dr. Meyer is a licensed Mechanical Engineer with more than 20 years of professional experience in the engineering consulting arena. In her role as Client Services Vice President, Dr. Meyer works day-to-day with the firm's clients to assess timely responses to their requests. She is a contributor to the development and implementation of corporate and office business plans, including designing and implementing the company's corporate marketing program. Dr. Meyer develops and manages a client-based business development program focused on expanding the company's business both vertically and horizontally within the client's organization. She routinely meets with clients and potential clients to inquire about their needs and then provides them with the appropriate contacts and expertise. In addition, Dr. Meyer provides consultation with regard to demonstrative evidence and presentation preparation and development. She played a key role in two major American Bar Association Section of Litigation Mock Trials "US v Lee Harvey Oswald" and "Litigating the Titanic."

Dr. Meyer is a licensed Mechanical Engineer in the State of California. Her technical expertise includes failure analysis and design assessment of mechanical systems subject to static and dynamic loads. Her consulting career expertise has included vehicle and aircraft accident reconstruction. More specifically, Dr. Meyer has addressed issues related to the damage tolerance and durability of engineering materials. This includes fracture mechanics and fatigue design analysis of mechanical components.

Prior to joining Exponent, Dr. Meyer was a President's Fellow at the Center for Advanced Materials, Lawrence Berkeley Laboratories, University of California at Berkeley, where she performed research in the area of damage tolerance and fatigue of ceramic materials. She has worked as a visiting senior fracture mechanics engineer at the Canadian Department of National Defense (Ottawa) where she managed and conducted investigations related to failure analysis of aircraft structures. She also worked under contract to General Dynamics, Atlantic Richfield, and Sun Exploration and Production Company.

**Academic Credentials and Professional Honors**

Ph.D., Mechanical Engineering, Southern Methodist University, 1987  
M.S., Mechanical Engineering, Southern Methodist University, 1985  
B.S., Mechanical Engineering, Southern Methodist University, 1983

President's Post-Doctoral Research Fellowship, University of California, Berkeley; Awarded Fulbright Fellowship, Cambridge University; Tau Beta Pi; Pi Tau Sigma

## **Licenses and Registrations**

Registered Professional Mechanical Engineer, California, #M27577

## **Selected Publications**

Steffen Meyer AA, MacMillan JB. High tech demonstrative evidence. Proceedings, Georgia Association of Defense Counsel, 2007.

Steffen Meyer AA, MacMillan JB. Courtroom visualization techniques for damages cases. Proceedings, Defense Research Institute Damages Seminar, 2006.

Moore CD, Kadlec R, Westmann R, Steffen Meyer AA. Changing paradigms in aviation accidents. Proceedings, The SMU Air Law Symposium, 1997.

Steffen AA, Dauskardt RH, Ritchie RO. Small-crack behavior and safety-critical design criteria for cyclic fatigue in Mg-PSZ. American Society for Testing and Materials Special Technical Publication on Cyclic Deformation, Fracture, and Non-Destructive Evaluation of Advanced Materials (ASTM STP 1157), pp. 69–81, 1992.

Steffen AA, Dauskardt RH, Ritchie RO. Cyclic fatigue life and crack-growth behavior of microstructurally-small cracks in Mg-PSZ ceramics. Journal of American Ceramics Society 1991; 74(6):1259–1268.

Steffen AA, Packman PF, Dawes MG. The effect of pre-cracking variables, R and Kfmax on fracture toughness. Advances in Fracture Research 1989; 2.

Steffen AA. On the effect of R-Ratio and Kfmax on fracture toughness measurement, fatigue crack propagation and fatigue crack closure. Ph.D. Dissertation, Southern Methodist University, 1987.

Steffen AA. An experimental study of rotation factors in an elastic material. Master's Degree Thesis, Southern Methodist University, 1985.

## **Selected Presentations and Published Abstracts**

Steffen Meyer AA. One particular harbor: Litigating the Titanic. Texas Association of Defense Counsel Spring Meeting, San Diego, CA, April 29, 2010.

Steffen Meyer AA. Safety through failure: How accidents and failures have improved design. Plenary Speaker, 14th Annual International Conference on Industrial Engineering Theory, Applications and Practice, Anaheim, CA, October 18, 2009.

Steffen Meyer AA. High tech demonstrative evidence. Presented at the Georgia Association of Defense Counsel, Amelia Island, FL, June 9, 2007.

Steffen Meyer AA. Iceberg ahead! Litigating the titanic disaster—The expert's perspective. Presented at the Ohio Association of Civil Trial Attorneys Summer Conference, Mason, OH, June 15, 2007.

Steffen Meyer AA. Bang for the buck: Demonstrative evidence that works and won't break your budget. Presented at the American Bar Association Aviation Litigation CLE Seminar, New York, NY, June 1, 2007.

Steffen Meyer AA. Courtroom visualization techniques for damages cases. Presented at the Defense Research Institute Damages Seminar, Las Vegas, NV, March 16, 2006.

Steffen Meyer AA. Advances in demonstrative evidence technology. Presented at the Becoming a Preeminent Lawyer, DRI 2005 Conference, Chicago, IL, September 29, 2005.

Steffen Meyer AA. High tech demonstrative evidence. Presented at the Federation of Defense and Corporate Counsel, Sun Valley, ID, July 25, 2002.

Steffen Meyer AA. A practice guide to the use of demonstrative exhibits at trial. Presented at the Defense Research Institute Advocacy Skills Series—The Art of Persuasion, Santa Monica, CA, June 20, 2002.

Steffen Meyer AA. Using high-tech tools in litigation. Presented at the Illinois Association of Defense Counsel, Chicago, IL, March 2, 2002.

Steffen Meyer AA. The use of visualization techniques in the courtroom. Presented at the LORMAN Legal Seminar, Seattle, WA, September 25, 2001.

Steffen Meyer AA. Use of technology in litigation. Presented at the Portland Sediment Seminar, CLE Presentation, Portland, OR, November 1999.

Steffen Meyer AA. Use of visualization techniques in litigation. Presented at the National Law Association Meeting, Breckenridge, CO, August 6, 1999.

Steffen Meyer AA. High tech demonstrative evidence in the courtroom. Presented at the Commercial Law Association / American Corporate Counsel Association Meeting, Beverly Hills, CA, July 23, 1999.

Steffen Meyer AA. Use of high technology in the courtroom: Science and technology in the courtroom and boardroom. Presented to the Techlaw Group, Inc., Pittsburgh, PA, April 17, 1998.

Steffen Meyer AA. Expert witness preparation and high tech demonstrative evidence. Presented to the California Judges Conference, Irvine, CA, January 24, 1998.

Steffen Meyer AA. Demonstrative evidence—High technology and admissibility issues. Presented at the American Bar Association Litigation Section Mid-Year Meeting – Aviation Division, Washington, DC, April 18, 1997.

Steffen Meyer AA. Changing paradigms in aviation accidents. Presented at the SMU Air Law Symposium, Dallas, TX, February 27–28, 1997.

Steffen AA. Using failure to predict system safety. Presented at the 14<sup>th</sup> International Systems Safety Conference, Albuquerque, NM, August 9, 1986.

### **Prior Experience**

President's Post-Doctoral Research Fellow, Center for Advanced Materials, Lawrence Berkeley Laboratories, University of California, Berkeley, CA 1989

Visiting Senior Fracture Mechanics Specialist, Quality Engineering Test Establishment, Department of National Defense, Hull, Quebec, Canada, 1988

Lecturer, Southern Methodist University, 1985–1987

Engineer, Orbit Technologies, Dallas, TX, 1985-1986

Intern, Atlantic Richfield, Dallas, TX, 1985

Intern, General Dynamics Corporation, Ft. Worth, TX, 1983

Intern, Sun Exploration & Production Company, Tulsa, OK, 1982

Intern, Sun Exploration & Production Company, Dallas TX, 1981

### **Professional Affiliations**

- American Society of Mechanical Engineers (member)
- American Bar Association (associate member)
- International Aviation Women's Association (member)
- Legal Marketing Association (member)
- Legal Sales & Service Organization (member)