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- Professional:** Registered Professional Engineer  
American Society of Civil Engineers, Member  
Society of American Military Engineers, Member  
International Association of Concrete Repair Specialists, Member  
National Society of Professional Engineers, Member  
Transportation Research Board (National Academy of Sciences), Past Committee Member  
U.S. Commission on Large Dams, Member of Concrete Committee  
American Concrete Institute, Fellow  
Member or past member of the following ACI Technical Committees: Mass Concrete, Fibrous Concrete, Polymers in Concrete, Erosion of Hydraulic Structures, Shotcrete, and Cracking. Subcommittee Chairman for RCC
- Military:** Honorable Discharge, Captain, U.S. Army, Engineer Branch
- Education:** B.S. (Civil Eng.), M.S. (Civil Eng.) Clarkson University, New York  
Ph.D. (Mech. Eng.) University of Sheffield, U.K.
- Field of Expertise:** General — Concrete and construction  
Specialities — Mass concrete, roller compacted concrete, expert witness, thermal stress, specifications, joints, inspections, pavements, slabs on grade, mix designs, concrete repairs, cavitation/erosion, investigations and failure analysis
- Experience:** Instructor for Concrete and Soils Testing — Clarkson University, New York  
Assistant Superintendent — Turner Construction Company, Connecticut/New York  
Scheduling and contract administration of major building construction  
Assistant to Resident Engineer, Libby Dam — U.S. Army Corps of Engineers, Montana  
Major dam, bridge and highway engineering, construction and inspection supervision; contract administration; special projects concerning claims and concrete/earthwork problems  
Civil Engineer/Materials Specialist — U.S. Army Corps of Engineers, Washington  
Concrete, asphalt, epoxy and chemical grouting authority; formal inspections of major dams and navigation locks; specifications and designs for construction contracts including dams, fish hatcheries, bridges and buildings; construction and laboratory testing; aggregate investigations, construction review, training  
Lecturer/Speaker — Numerous International Seminars, Congresses, and Conventions  
Civil Engineer and Concrete Specialist — Schrader Consulting, Washington  
International consultant for design firms, contractors, owners, government agencies, suppliers, and attorneys
- Publications:** Approximately 100 publications for journals, technical articles, congresses, and symposiums including:  
*Concrete International*; *Civil Engineering*; *Journal of the American Concrete Institute*; *Concrete Construction*; *Concrete Repair*; *Water Power and Dam Construction*; *The Military Engineer*; *The Transportation Research Board*; *RILEM*; and *The International Commission on Large Dams*; *Contributor to Advanced Engineering for Dam Design, Construction & Rehabilitation*; *Concrete Construction Engineering Handbook*; and *Roller Compacted Concrete Dams*
- Awards:** Numerous National and International Awards including:  
*Engineer of the Year* — From the National Society of Professional Engineers for the entire U.S. Army Corps of Engineers  
*Construction Man of the Year* — Nomination from Engineering News Record  
*Tudor Medal* — From the Society of American Military Engineers for the outstanding engineer under age 36  
*Presidential Design Award* — National Endowment for the Arts  
*Army Research and Development Achievement Award* — From the U.S. Army Corps of Engineers  
*Who's Who in Engineering* — Selected for listing by The American Association of Engineering Societies  
*Commander's Medal* — Chief of Engineers award U.S. Corps of Engineers for Engineering Excellence  
*Greensfelder Construction Prize* — From the American Society of Civil Engineers for Contributions to Construction  
*Wason Medal* — From the American Concrete Institute for "Most Meritorious Paper"  
*United Nations Grant* — For modernization of Concrete Technology in Developing Countries  
*Construction Practice Award* — From the American Concrete Institute  
*IMCYC "Register"* — From the Cement and Concrete Institute of Mexico  
*National Achievement Award* — From American Concrete Institute (Dakota Chapter)  
*CANMET/ACI* — International Award for Outstanding Contributions to Advances in Concrete Technology and the Development of Roller Compacted Concrete  
*National Science Foundation Grants* — For Education, Research and Participation in International Congress on Large Dams  
*Authors Award* — From HRW Publications for Articles Ranked Number 1 by Readers, 2004 & 2008  
*Outstanding Performance Award*, *Exceptional Performance Award*, *Sustained Superior Performance Award* and *Special Act or Service Awards* — Various Regional Awards