

STRUCTURAL ANALYSIS AND DESIGN

DONALD WAYNE VANNOY, Ph.D., P.E.

Ph.D., Civil Engineering, University of Virginia
M.E., Civil Engineering, University of Virginia
B.S., Civil Engineering, West Virginia Institute of Technology
Registered Professional Engineer, Maryland, West Virginia, District of Columbia & Virginia

FIELDS OF SPECIALTY: Structural analysis, finite element analysis, failure analysis and design; concrete/masonry/steel/wood structures; extent of fire and smoke damage to structures; property condition assessments; water intrusion; roofing.

MAJOR PROFESSIONAL EXPERIENCE: President and Chief Operating Officer, Trident Engineering Associates, Inc., Annapolis, Maryland.

Over 30 years of experience in structural analysis, fire and smoke damage, finite element analysis, code compliance investigations, and design including more than 1000 failure investigations for buildings, bridges, cranes, and other structures. Multiple due diligence inspections of various types of facilities and buildings. Numerous investigations of failures of concrete structures such as hotel parking garages, prestressed structures and reflecting pools. Prepared repair specifications, monitored repair and served as court-appointed expert arbitrator regarding a parking garage.

Professor of Civil Engineering at the University of Maryland teaching forensic engineering, structures, structural design, stress analysis, and finite element analysis at graduate and undergraduate levels.

Chief Technical Advisor for the United Nations. As Chief Technical Advisor to Governments of India and Malawi, developed structural analysis and design courses for bridge upgrade programs in India, Malawi, and Romania. Consultant Engineer for construction of new H-3 bridges connecting the south and north shores of the island of Oahu, Hawaii.

Numerous property condition surveys and due diligence studies for governmental agencies included HUD, Coast Guard, and the State Department. The HUD project included the survey of 266 Multifamily Housing Projects throughout the United States. The condition survey work for the Foreign Buildings Office of the State Department covered Embassies throughout the world. The property condition surveys and due diligence work has been for a variety of investment trusts and private companies for shipping centers, warehouses, office buildings and apartment buildings.

Worked with both the West Virginia and the Virginia Highway Departments in the structural analysis and design of bridges. Consultant to the Masonry Institute of Maryland on six major load-bearing masonry high-rise buildings. Served as a consultant to numerous engineering firms in the Washington, DC area regarding structural behavior of buildings.

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DONALD WAYNE VANNOY, Ph.D.,P.E.

Past Director and Founder, The Architecture and Engineering Performance Information Center (AEPIC)
University of Maryland.

Judge for the Bridge Engineering Excellence Competition for the consulting Engineers Council.

AUTHOR: Numerous papers and reports in referred journals or books pertaining to structural analysis and design. Talks and seminars both nationally and internationally.

AWARDS AND HONORS: Awards and honors include Exceptional Achievement in Teaching; received the first Outstanding Teacher Award for Civil Engineering; State-of-the-Art Civil Engineering Award by American Society of Civil Engineers; Civil Engineer of the Year in 1991 by Maryland section of the American Society of Civil Engineers; and Engineer of the Year by the Engineering Council of Maryland. Invited lecturer at several major universities, awarded a National Science Foundation Traineeship, and winner of the Lincoln Arc Welding Foundation Award.

HONORARY SOCIETIES: Tau Beta Pi, Phi Kappa Phi, Sigma Xi.

MEMBER: Active participant in American Society of Civil Engineers (President of Maryland Chapter, 1990), American Concrete Institute, American Society of Testing and Materials, Society for Experimental Stress Analysis, and Transportation Research Board.

NATIONAL COMMITTEES: ASCE committees on Steel Bridges, Concrete Bridges, Forensic Engineering, Tubular Structures and Fatigue and Fracture Reliability, ACI committees 349 and 215, Transportation Research Board Committee A2604, and ASCE/ACE 530 Committee – Building Code Requirements for Masonry Structures.

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Deposition and Trial Testimony

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| Aug 19, 2003 | Deposition | Case No. CAL 02-20307 Transcontinental Ins. Vs. Jottan | Circuit Court for Anne Arundel Co. |
| Mar 19, 2003 | Deposition | Case No. BER-L-10696-00 AMB Property vs. Aguirre, et al | Superior Court of New Jersey |
| July 25, 2001 | Deposition | Case No. BER-L-10696-00 AMB Property vs. Aguirre, et al | Superior Court of New Jersey |
| July 11, 2001 | Deposition | Case No. C-97-42187CN Joseph Alberro vs. Allstate Ins. Co. And AICap Construction, Inc. | Circuit Court for Anne Arundel Co. |
| Feb 12, 2001 | Trial | Case No 2089-2000 Dalrymple vs. Allstate Ins. | District Court of Maryland for Carroll Co. |
| Jan 29, 2001 | Trial | Case No. CV00850 Brown vs. American Casualty Company | United States District Court for DC |
| Nov. 27, 2000 | Deposition | Case No. CV00850 Brown vs. American Casualty Company | United States District Court for DC |
| Aug 17, 2000 | Deposition | ASBCA No. 50647 John C. Grinberg Co., Inc. V. U. S. Navy | Armed Services Board of Contract Appeals |
| May 10, 2000 | Trial | Case No. C99-510 Joudrey v. Monarch, et al | Circuit Court for Charles County, MD |
| May 3, 2000 | Deposition | Case No. C99-510 Joudrey v. Monarch, et al | Circuit Court for Charles County, MD |
| Feb 17, 2000 | Deposition | USDC No. S99CV32241 Lakeside Terrace Condo V. Transportation Ins. Co. | United States District Court |
| Jan 21, 2000 | Deposition | Case No. C-98-28410 CN National Instrument Corporation V. Morgan-Keller, et al. | Circuit Court of Carroll County, MD |

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| Aug 20, 1999 | Deposition | Case No. C-98-201114 Judy Lindon, et al. v Philip Sessa, et al. | Circuit Court for Baltimore City, Baltimore |
| Nov 8-9, 1998 | Trial | Case No. 98-6-2168-JFS Shoreline Health Services, Inc. | Bankruptcy Court - Baltimore, |
| Aug - Oct, 1998 | Arbitration Panel | Case No. 93-0482 2000 L Street, Washington JBG/Rock Associates v. Standard Fire Ins Co. aka Aetna Casualty | United States District Court, DC |
| July 8, 1997 | Deposition | Case No. C-93-9112 CN Ronald Goldberg, et ux. v. Capitol Realty Limited Partnership, et. al. | Circuit Court of Anne Arundel . Anne Arundel County, MD |
| Sept 11, 1996 | Deposition | Case No. C-95-21421 CN Anne Arundel County, Md. v. C. W. Davis Supply Co., Inc., et al | Circuit Court of Anne Arundel County, MD |
| Feb 28, 1996 | Trial | Case No. 94-CV-0692 Waldo Hansen, Jr. vs. State of Maryland Department Of Natural Resources, et al. | Circuit Court of Worcester County, MD |