September 16, 1939-July 12, 2017. Chai Hong "Jay" Yoo, of Auburn, died peacefully of lung cancer on July 12, 2017, at Bethany House at age 77. He was a beloved husband, father, grandfather, and professor emeritus of Auburn University. Originally from Choongjoo, South Korea, Dr. Yoo’s early childhood was interrupted by the Korean War. Despite educational disruptions, he tested into the KyungBok High School, where he was senior class president and captain of the weight-lifting team. Dr. Yoo received full scholarship funding to graduate from Seoul National University, the most prestigious university in Korea. After serving as a civil engineering officer in the Republic of Korea Air Force, he moved to Vietnam as a civilian civil engineer. He then moved to the United States in 1967 to complete his studies. He received his Ph.D. in Civil Engineering from the University of Maryland, where he also did post-graduate work in his specialty of structural engineering. He passionately believed that he should use his education to give back to his global community, and he worked arduously to achieve his goal.
Dr. Yoo taught at Marquette University in Milwaukee, WI, prior to moving to Auburn in 1981. At Auburn, he achieved tenure in two years and was promoted to full professor in 1986. He was named the Huff Eminent Scholar of the College of Engineering in 1998. After retirement from Auburn University, Dr. Yoo was an Invited Professor in the Department of Architectural, Civil and Environmental Engineering at Korea University in Seoul, Korea, where he won an Outstanding Teacher Award in 2007. In 2008, Dr. Yoo earned a national award from the American Society for Civil Engineers (ASCE), the Shortridge Hardesty Award for outstanding research and practical engineering efforts dealing with the strength and stability of thin-walled sections, especially as applied to bridge girders.
Dr. Yoo was the principal investigator and project director of National Cooperative Highway Research...
Program Project 12-38 that produced the American Association of State Highway and Transportation Officials’ Guide Specifications for Horizontally Curved Steel Girder Highway Bridges with Design Examples for I-girder and Box-Girder Bridges. Dr. Yoo co-wrote two books: "Analysis and Design of Curved Steel Bridges" (1988) with Hiroshi Nakai of Japan and "Stability of Structures: Principles and Applications" (2011) with Sung C. Lee of Korea. He authored over 80 peer-reviewed journal papers and was active on numerous ASCE and Structural Stability Research Council technical committee activities. Dr. Yoo was an avid golfer and could often be found on the green for the first available tee-time. A copy of Ben Hogan’s "Modern Fundamentals of Golf" could always be found next to his chair. His greatest fear was to lose his mental acuity, so he played Sudoku daily. He remained sharp until the last days of his life, and died on his own terms in hospice care.

Education:
B.S. 1962 Seoul National University
M.S. 1969 University of Maryland
Ph.D. 1971 University of Maryland

Experience:
1962-66 Civil Engineer Officer (1st Lt., ROKAF), Korean Air Force, Seoul, Korea
1966-67 Structural Engineer, Pacific Architects and Engineers, Inc., Saigon, Vietnam
1968-71 Graduate Research Assistant, Department of Civil Engineering, University of Maryland, College Park, Maryland
1971-72 Structural Engineer, McGaughy, Marshall and McMillan Assoc., Norfolk, Virginia
1972-73 Faculty Research Associate, Department of Civil Engineering, University of Maryland, College Park, Maryland
1973-74 Visiting Assistant Professor, Department of Civil Engineering, University of Maryland, College Park, Maryland
1975-80 Assistant Professor, Department of Civil Engineering, Marquette University, Milwaukee, Wisconsin
1980-81 Associate Professor, Department of Civil Engineering, Marquette University, Milwaukee, Wisconsin (tenured)
1981-84 Associate Professor, Department of Civil Engineering, Auburn University, Auburn, Alabama
1983 Tenured
1986 Promoted to Full Professor
1984-90 Gottlieb Associate Professor/Gottlieb Professor, Department of Civil Engineering, Auburn University, Auburn, Alabama
1990-96 Professor, Department of Civil Engineering, Auburn University, Auburn, Alabama
1996-97/1998-02, Gottlieb Professor/Huff Eminent Scholar, Department of Civil Engineering, Auburn University, Auburn, Alabama
2003-07 Professor, Department of Civil Engineering, Auburn University, Auburn, Alabama
2007-08 Invited Professor, Department of Architectural, Civil and Environmental Engineering, Korea University, Seoul, Korea
2007-present, Professor Emeritus, Department of Civil Engineering, Auburn University, Auburn, Alabama

Research Grants and Contracts:
National Science Foundation – 2 Projects
NASA – 2 Projects
American Iron and Steel Institute – 1 Project
National Corporative Highway Research Program – 1 Project
Federal Highway administration – 1 Project
Alabama Department of Transportation – 5 Projects
Maryland Department of Transportation – 2 Projects

Professional Societies:
Fellow Member, American Society of Civil Engineers; Charter Member, Engineering Mechanics Institute, American Society of Civil Engineers; Overseas Member, The National Academy of Engineering of Korea; Honorary Member, Structural Stability Research Council, Chairman (1981-1987), Task Group #14, Horizontally Curved Girders, Structural Stability Research Council; Chairman (1980-1984), member (1980-1988), Committee on Flexural Members, ASCE, Member (1981-1983); Task Committee on Redundancy of Flexural Systems, ASCE, Member (1985-1987); Committee on Timber Bridges, ASCE; Member (1982-1985), Committee on Transportation Lifelines; ASCE, Member (1985-1987), Committee on Special Structures, ASCE; Member, Publications Committee, ASCE Technical Council on Computer Practices; Chairman (1998-2000), Committee on Stability, ASCE, Assoc Editor (1998-2000), Journal of Engineering Mechanics, ASCE; member, Korea Society of Civil Engineers; Honorary Member, Korean Scientists and Engineers Assoc., in America, Inc.

Honors and Distinctions:
Registered Professional Engineer: Virginia #06424, Alabama #14447; Chi Epsilon; Tau Beta Pi; Sigma Xi; Doctoral Dissertation Fellowship, University of Maryland, 1971; NASA-ASEE Faculty Research Fellowship, Summer 1978; Lincoln Arc Welding Foundation Award, 1978 (4th place), 1982 (honorable mention); 1985 NASA New Technology Award (MFS 27078)

Invited in 1988 as one of four national speakers at the year-long mechanics seminar series at Georgia Institute of Technology commemorating sesquicentennial celebration

Selected in 1996 as one of three outstanding educators in the U.S.A. by American Iron and Steel Institute with graduate fellowship fund for pioneering contributions to steel bridge research and education


Recipient of 2008 ASCE Shortridge Hardesty Award

Recipient of the Korea University Outstanding Teaching Award, Fall Semester 2007

Books and Book Chapters:


**Selected Journal Publications:**


