BEST PAPER AWARD

The Technical Committee juried all accepted papers and created a short list of finalists in each category: Best Paper, Best Student Paper, and Best Predictive Paper for the new Da Vinci Award. These finalists were presented to an independent Blue Ribbon Committee to determine the winners.

NAECON expresses our thanks to the members of this year’s Blue Ribbon Committee.

BLUE RIBBON PANEL MEMBERS

DR. ROBERT A. CALICO, JR.

Dean
Graduate School of Engineering, Air Force Institute of Technology,
Wright-Patterson Air Force Base, Ohio

Dr. Robert A. Calico, Jr., is dean, Graduate School of Engineering, Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio. Providing MS and PhD programs for Air Force officers in areas of engineering and science critical to maintaining the Air Force technological superiority, the Graduate School of Engineering is accredited to award degrees through the doctoral level.

Dr. Calico earned a bachelor of science degree in aerospace engineering from the University of Cincinnati in 1966, graduating with honors. He also earned a master of science degree and PhD in aerospace engineering from the university in 1968 and 1971, respectively.

In June 1972, Dr. Calico joined the faculty of the Air Force Institute of Technology, Graduate School of Engineering, where he has held the positions of assistant professor, associate professor, and professor of aerospace engineering. He has more than 40 publications in the areas of flexible spacecraft control, aircraft spin prediction, and control of time periodic systems. He assumed his present duties in July 1990.

Dr. Calico is an Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA), and a member of Sigma Xi Research Society, Tau Beta Pi engineering honor society, and the American Society of Engineering Education. He has served as a member of the AIAA Technical Committees on Astrodynamics and Atmospheric Flight Mechanics. Dr. Calico serves on the Board of Trustees of the Engineering and Science Foundation and the Engineering and Science Hall of Fame. He has been named a distinguished alumni of the University of Cincinnati College of Engineering and a Distinguished Engineer by the Engineering and Science Foundation of Dayton.
James E. Brandeberry, Ph.D., P.E
Professor and Dean
College of Engineering and Computer Science, Wright State University (WSU)

Dr. Brandeberry is currently professor and dean of the College of Engineering and Computer Science at Wright State University (WSU) and past chair of the Department of Computer Science and Engineering. He joined WSU in 1969, two years after it became an independent state university. For over 30 years he has directed his efforts toward building an outstanding program in engineering for the Dayton metropolitan area, and has made education his top priority. Dr. Brandeberry also has an extensive industrial background as entrepreneur and as a practicing engineer. He was founder and president of Simulation Technology, Inc. from 1976 to 1980, and was a senior electronics design engineer for General Motors Corporation from 1963 to 1966. He has served as a consultant to a number of other companies.

Dr. Brandeberry’s area of specialization is electronics and control, and he was involved in the planning, development, initiation and teaching of the programs adopted in computer science and computer engineering. He has played an important role in recruiting an outstanding engineering faculty at Wright State University and was actively involved in getting approval from the Ohio Board of Regents for a Ph.D. Program in Engineering at WSU and the Dayton Area Graduate Studies Institute which combines the strengths of WSU, the Air Force Institute of Technology, and the University of Dayton. Through the years he has worked to form a partnership with local industries and to establish research activities that would advance technology, promote economic growth, and provide research projects to develop and enhance exceptional programs of graduate study in engineering and computer science. In 1993, Dr. Brandeberry expanded his partnership with industry by developing a Design Clinic Program which provides real-world experience for undergraduates in the practice of engineering problem solving and design.

A partial list of Dr. Brandeberry professional activities follow:

- ASEE Engineering Dean’s Council - Student Pipeline Committee
- AIAA/ICAS International Symposium & Exposition in Celebration of 100 Years of Powered Flight -- Local Executive Advisory Committee
- AFIT Foundation Board of Trustees
- Engineering Foundation of Ohio, Trustee, Past President
- Engineering and Science Foundation of Dayton, Board of Trustees, Past Chair
- Dayton Area Graduate Studies Institute (DAGSI) Board of Trustees
- IVHS-Ohio (Intelligent Vehicle Highway System-Ohio) - Board of Directors
- NAECON - Blue Ribbon Outstanding Paper Committee
- NSPE (National Society of Professional Engineering) PEE Executive Board
  Board of Governors for Supporting Universities Program, Chair
- Ohio Aerospace Institute (OAI), Advisory Committee

Dr. Brandeberry received his B.S. and M.S. degrees in electrical engineering from the University of Toledo, and his Ph.D. in electrical engineering from Marquette University. He is a registered Professional Engineer and the author of over 35 technical publications. With the 1992 opening of the Fritz and Dolores Russ Engineering Center on the campus of Wright State University, the vision of excellence that Dean Brandeberry has promoted throughout his career will continue to grow and influence engineering education, not only in the Miami Valley, but in the entire State of Ohio.
Dr. Donald L. Moon  
*Associate Dean, Graduate Engineering Programs & Research  
Professor, Electrical Engineering and Electro-Optics  
Kettering Laboratories, University of Dayton*

Dr. Moon’s engineering career spans approximately 32 years (16 years as a full-time professor plus 9 years part-time, 11 years as a research/supervisory engineer at the U.S. Air Force and about 5 years in industry). This background has allowed him many opportunities to be involved in administration, research and teaching - both in an academic and non-academic environment. During this period he had positions of junior engineer, senior engineer, group leader, research engineer, supervisory engineer, acting chief scientist, professor, department chairmen and his current position of Associate Dean, Graduate Engineering Programs and Research.

In addition to his general accomplishments as an engineer and educator, Dr. Moon has been very involved as a leader in the areas of professional and service activities of engineering and education. He is a Senior Member of the IEEE in which his activities include the Dayton Group on Computers (Chairman, 1970); Dayton Group on Signal Processing (Chairman, 1985); Dayton Section (Chairman, Vice-Chairman, Treasurer, Secretary, 1993, 92, 91, 90.).  Dr. Moon is a member of the IEEE’s National AESS Board of Governors where he has served as: Business Editor, Transactions on AESS, 1989-93; Chairman, National Education Committee on AESS, 1991-present; Vice-President, Conferences, 1992-1995.

Other interesting points are: Dr. Moon has published over 20 items (conference and refereed articles, book chapters, theses and technical reports); he has been the Principal Investigator on $490K worth of funded research, a consultant, and recognized for professional contributions and ability (“Excellence in Teaching” Award, NSF Fellow, Eta Kappa Nu Honoree, IEEE Service Recognition Award, Who’s Who in the Midwest, American Men and Women of Science).

**Research Interests**
- Digital System and Computer Architectures
- Electro-Optics Displays and Technology

**Recent Publications**
Mr. Jon Ogg

Director of Engineering

ASC/EN

Jon Ogg, a member of the Senior Executive Service, is the director, Engineering and Technical Management Directorate, Aeronautical Systems Center, Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio. He provides overall management guidance for the development of systems engineering programs for ASC with annual expenditures of more than $10 billion. He ensures the proper allocation and expenditure of fiscal and personnel resources and provides engineering tools to the program offices.

Ogg entered federal civil service as a project engineer with the Flight Systems Directorate in 1975. He is recognized as the Air Force's leading authority on integrity for programs propulsion and power systems. He spent 15 years of service in propulsion and has been involved with every phase of a system's life cycle on nearly all gas turbine engines in the Air Force inventory. In addition, Ogg has provided technical and programmatic support to many ASC weapon system programs and has led various reviews spanning acquisition strategies, request for proposal preparation, independent cost estimates, technical risk assignments, and flight certification. He helped pioneer the current integrated product process development and product team approach on the F-22 program.

He holds degrees including a Doctor of philosophy (ABD) in engineering mechanics from Ohio State University, a Master's degree in aeromechanical engineering from Ohio State University; a Master's degree in business management, Sloan Fellowship Program from Massachusetts Institute of Technology; and a Bachelor's degree in aeronautical and astronautical engineering from Ohio State University.

AWARDS AND HONORS:

- 1980 Junior Civilian Engineer of the Year, Aeronautical Systems Division
- 1983 Meritorious Civilian Service Award
- 1990 Overall Engineer of the Year, Aeronautical Systems Division
- 1991 Technical Manager of the Year, American Institute of Aeronautics and Astronautics
- 1996 Outstanding Engineer Award, Affiliate Societies Council
- 1997 Executive Achievement Award, Senior Executive Association
- 1998 Chief Engineer of the Year, Aeronautical Systems Center