

# IMPACT

The official magazine of the College of Engineering, Architecture and Technology

Featured article:  
**JERRY HOLMES**

1996



# the LOHMANN MEDAL

This year the College of Engineering, Architecture and Technology awarded the Lohmann Medal for the sixth time. Featured here are the 1995 recipient, D. Ray Booker, president of Aviation Technologies Inc. of Tulsa, and the 1996 awardee Jerry D. Holmes, technical director at Texas Instruments.

The Melvin R. Lohmann Medal, established to honor Dean Emeritus M. R. "Pete" Lohmann, is awarded annually to a graduate of the College of Engineering, Architecture and Technology who has made, "outstanding technical or managerial contributions to his or her profession and/or contributions to the education of engineers, architects or technologists that merit the highest recognition." Lohmann served as dean of the college from 1955 to 1977.

During Lohmann's tenure at OSU, he led the college from relative obscurity to national prominence. With strong powers of persuasion, he was able to obtain private funds for scholarships, faculty development and research. Due to Lohmann's efforts the Halliburton Chair in Engineering was established. And it was his vision that led OSU to national leadership in distance learning.

Lohmann's legacy to the college and the university continues to grow because his vision led CEAT from relative obscurity to national distinction. By presenting the Lohmann Medal each year, the college recognizes those individuals who epitomize the high standards set by its namesake.



*D. Ray Booker*  
1995



*Jerry D. Holmes*  
1996

## D. RAY BOOKER

D. Ray Booker, founder, president and chief executive officer of Aviation Technologies Inc., of Tulsa, received the 1995 Lohmann Medal in recognition of his contributions in the development of airborne instrumentation, autonomous unmanned reconnaissance aircraft and unique techniques for measurement of meteorological and optical data.

Born in Magnum, he attended public schools in Hall Corner and Antlers, Okla. In 1957 he completed a BSME degree at Oklahoma A&M and was commissioned in the U.S. Air Force the same year. He completed a master's degree in 1962 and a doctorate in 1965 at Pennsylvania State University.

In 1964 Booker founded Weather Science Inc., serving as president until 1974. WSI specializes in airborne data collection and analysis for meteorological applications.

In 1974 Booker founded Aeromet Inc., which has become a leading supplier of engineering and scientific services related to special airborne applications. His conservative management and business practices have led this 100-person company to sound profitable growth. He recently started a new company, Aviation Technologies Inc., to develop and manufacture pilot advisory systems for corporate aircraft.

Booker is a Fellow of the American Meteorological Society. He has served the AMS in many capacities including: council

member, executive committee member, chairman of the Board on Certified Consulting Meteorologists, and member and chairman of the Board of Professional Ethics. He has served as an active member of the American Association for the Advancement of Science, the National Council of Industrial Meteorologists and the Weather Modification Association. He has published more than 60 papers and major reports on meteorological, engineering and aviation subjects.

Booker and his wife Linda make their home in Jenks. With a variety of interests ranging from reading to classical music to golf, finding leisure time activities is no problem for Booker. He also enjoys operating any kind of machinery, in particular using a bulldozer to clear portions of his farm south of Tulsa near Haskell or flying his Enstrom F28F helicopter.

## PREVIOUS LOHMANN MEDAL AWARDEES

J. TINSLEY ODEN, 1991

WOLTER J. FABRYCKY,  
1992

JACK P. HOLMAN, 1993

KERRY S. HAVNER, 1994

## JERRY D. HOLMES

Jerry D. Holmes, TI Fellow with the Systems Group of Texas Instruments in Dallas, was recently named the 1996 Lohmann Medal winner. Holmes was singled out for his extensive work in the development of global positioning systems, signal processing techniques and components, and transform processing theory.

Born in a farmhouse near Lockney, Texas, 50 miles northeast of Lubbock, Holmes graduated from Lockney High School. In 1959 he received a BSEE degree from Texas Tech University. Continuing his education, Holmes earned a master's at Massachusetts Institute of Technology in 1960 and a doctorate in 1965 at Oklahoma State University in electrical engineering. Since then, he has worked at Texas Instruments.

From 1965 to 1975, Holmes performed analysis and simulation for multiple communications and radar systems. Beginning in 1975, he became the chief engineer for a new program termed the Ground/Airborne Integrated Terminal. His work supported TI efforts to build terminals to receive messages from a constellation of 24 GPS satellites. His greatest achievements occurred during the period from 1975 to 1990 when he contributed to TI's efforts to become a world leader in global positioning systems.

He became a member of Texas Instruments' elite engineers in 1987 when he was named TI Fellow, a distinction reserved for less than one percent of the company's engineers. In 1989, his alma mater, Texas Tech, named Holmes a Distinguished Engineer and in 1993 he received the

Crystal Award from Texas Instruments' Defense Systems and Electronics Group, for patent contributions to the company.

Jerry holds eight patents and has published numerous papers related to global positioning systems and signal processing techniques and components. He is a senior member of the Institute of Electrical and Electronic Engineers (IEEE); Sigma Xi; Eta Kappa Nu; and Phi Kappa Phi. He is a registered professional engineer in Texas.

Holmes and his wife Kay make their home in Plano, Texas. The majority of their summer vacation time is spent in the Colorado Rockies where Holmes and his brother built a cabin during the late '70s. There they enjoy the spectacular scenery, the native wildlife and the camaraderie of family and neighbors. ▲

JENNIFER WINGETT

## VIP INVITATION

Have you been away from OSU for awhile? If so, you may be unaware of the enormous changes. So, we would like to invite you to be our guest for a VIP visit to campus and CEAT.

Just contact Dean Karl Reid by phone at 405-744-5140, by FAX at 405-744-7545, or by e-mail at:

kreid@okway.okstate.edu, or through the OSU homepage at: [www.okstate.edu](http://www.okstate.edu).