

2003 Daniel Drucker Medal



Presented to :

Professor Leon M. Keer

In Recognition of :

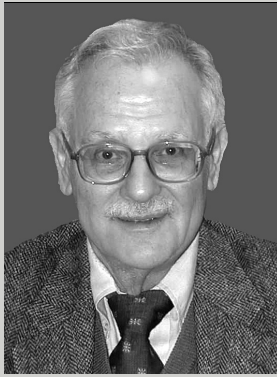
For novel solutions of the equations of elasticity,
creative methods of analysis of contact and
fracture and mentorship of numerous research
students and colleagues.

Presented at:

2003 Mechanics and Materials Conference
Camelback Resort - Scottsdale, Arizona



ASME International



LEON M. KEER

*Conferred at the Mechanics and Materials Conference
Scottsdale, Arizona, June 2003*

The **DANIEL C. DRUCKER MEDAL**, established in 1997, is conferred in recognition of distinguished contributions to the field of applied mechanics and mechanical engineering through research, teaching and service to the community over a substantial period of time.

LEON M. KEER, P.E., Ph.D., Walter P. Murphy professor of mechanical and civil engineering, Northwestern University (Evanston, Ill.), for novel solutions and new methods of analysis of contact and fracture, which have provided fundamental insight into the design and reliability of gears, bearings, railway rails and other engineering applications.

Dr. Keer has been a member of the Northwestern University (Evanston, Ill.) faculty since 1964 and is currently Walter P. Murphy professor of mechanical and civil engineering. He served as associate dean for research and graduate studies for the university's McCormick School of Engineering & Applied Science (1985-92) and chair of the department of civil engineering (1992-97).

Through his research, which resulted in the development of innovative analytical techniques, Keer has made fundamental contributions in the design of gears, bearings and railway rails, and in the areas of biomechanics and geophysics.

His work involved developing solutions to engineering problems associated with large stress gradients and concentrations. He has published numerous articles in professional journals on engineering and applied mechanics.

An ASME Fellow, Keer served as chairman of the Skokie Subsection of ASME (1978-79), and vice chairman/chairman-elect (1986-87) and chairman (1987-88) of the Chicago Section. He also served as associate editor (1987-88) and technical editor (1988-92) of the Journal of Applied Mechanics, and chairman of the Transactions Board of Editors and member-at-large on the Board of Communications (1993-97).

Keer is also a Fellow of the American Society of Civil Engineers, where he served as chairman of the Engineering Mechanics Division; the American Academy of Mechanics, where he served as president; and the Acoustical Society of America.

Other honors include a Guggenheim fellowship, a Japan Society for the Promotion of Science fellowship, a NATO postdoctoral fellowship and election to the National Academy of Engineering. Earlier in his career, he served on the technical staff at the Hughes Aircraft Corporation (1956-59).

Keer received his bachelor's and master's degrees at California Institute of Technology, Pasadena, in 1956 and 1958, respectively. He earned his doctorate at the University of Minnesota, Duluth, in 1962. He is a registered professional engineer (mechanical) in California.

Daniel Drucker Medalists

Past Honorees

- 1998 Daniel C. Drucker
- 1999 Ascher H. Shapiro
- 2000 Philip G. Hodge, Jr.
- 2001 Bruno A. Boley
- 2002 George J. Dvorak

THE DANIEL C. DRUCKER MEDAL
established in 1997, is conferred in
recognition of distinguished contributions to the
field of applied mechanics and mechanical
engineering through research, teaching and service
to the community over a substantial period of time.

