



Harry G. Fair

Each year, a special lecture is given in memory of Harry G. Fair, an outstanding OU alumnus. Harry G. Fair was born in Okmulgee, Oklahoma, on June 3, 1916. He received his B.S. in Chemical Engineering in 1939. He joined Phillips Petroleum Company in 1939 and worked his way up to Vice President for Supply and Transportation, with responsibility for world-wide exchange of crude oil and all transportation facilities. In 1966, he joined the M.W. Kellogg Company as Executive Vice President, in charge of all engineering activities and became Executive Vice President of Coastal States Gas Corporation from 1971 until the time of his death on July 27, 1974. Harry G. Fair was active in service to society and to his alma mater. He was a member of a number of professional societies and was a licensed professional engineer.

This lecture is made possible by the Harry G. Fair Memorial Fund contributed by his widow, Jane Swift Fair. Arrangements are made by the School of Chemical Engineering and Materials Science.

"Reaction Engineering of Advanced Ceramic Materials"

by

Dan Luss

Chairman,

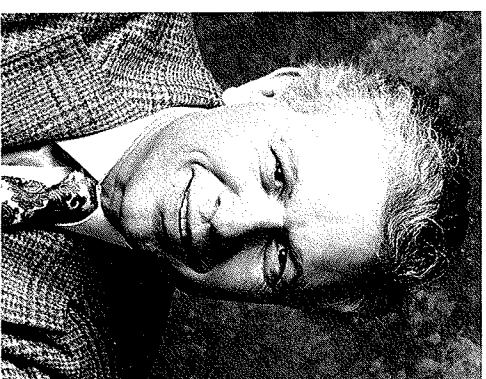
Department of Chemical

Engineering

University of Houston

Technological advances are increasingly dependent on the availability of new and improved high-performance ceramic materials with specialized mechanical, electrical, optical and chemical properties. The rapid growth of this industry poses many technological challenges and opportunities, the solutions of which require utilization of the expertise of scientists and engineers from several disciplines.

Several representative examples of the synthesis of ceramic powders (including high-temperature superconducting powder), self-propagating high-temperature synthesis, and fabrication of ceramic matrix composites will illustrate some of the many engineering challenges facing this emerging industry. The application of chemical engineering methodology and tools can lead to important improvements in the synthesis and production of these materials.



Dan Luss

Dan Luss is Chairman and Cullen Professor of the Department of Chemical Engineering, and Associate Director of the Texas Center for Superconductivity, at the University of Houston. Luss earned B.S. (1960) and M.S. (1963) degrees in chemical engineering at Technion in Israel, and obtained his Ph.D. at the University of Minnesota in 1966, where he taught as an assistant professor during 1966-67. He joined the faculty at the University of Houston in 1967, and was appointed chairman in 1975. He has served as a consultant to Shell Pipeline, Exxon Research and Engineering, Pullman Kellogg, W. R. Grace and DuPont.

Luss was inducted into the National Academy of Engineering in 1984 and has received numerous honors including the Wilhelm Fellow of AIChE in 1986, the McGraw Research Award of ASEE in 1977, and the Colburn Award of AIChE in 1972. He has held several distinguished lectureships and has authored well over 300 journal articles. He is editor of *Reviews in Chemical Engineering*, and associate editor of *Catalysis Reviews, Science and Engineering*, and has served on editorial boards of *Chemical Engineering Fundamentals* and *AIChE Journal*. He is active in several professional societies including ACS and served as director of AIChE during 1986-88.

*You Are Cordially Invited
To Attend*

The 18th Annual

Harry G. Fair Memorial Lecture

in

Chemical Engineering
And Materials Science

April 23, 1992

3:30 P.M.

*The Lecture will be given
on campus,
In Sarkeys Energy Center,
Room M-204*

Coffee and Refreshments
will be served

School of Chemical Engineering
& Materials Science
The University of Oklahoma
Sarkeys Energy Center
100 E. Boyd, Room T-335
Norman, Oklahoma 73019-0628

The University of Oklahoma
College of Engineering

The
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Annual

Harry G. Fair Memorial Lecture

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