

PITT AWARD

The Annual Award for Innovation in Coal Conversion, also known as the **Pitt Award**, was founded by the Department of Chemical and Petroleum Engineering of the University of Pittsburgh in 1983 through the support of the following companies: Air Products and Chemicals, Inc.; Consolidation Coal Company; Gulf Research and Development Company - Synthetic Fuels Division; and Westinghouse Electric Corporation.

Since 1992, the award has been fully funded by CONSOL Energy Inc. The purpose of this award is to honor an individual each year, which has made a recent and significant contribution to the new technologies, new procedures or new policies toward coal utilization.

PITT AWARD RECIPIENTS

1983	William S. Moorehead, Congressman, U.S. Congress
1984	Robert Hart, Tennessee Eastman Kodak
1985	Ab Flowers, Gas Research Institute
1986	W. Robert Epperly, Exxon Corporation
1987	William B. Krantz, University of Colorado
1988	Seymour B. Alpert, Electrical Power Research Institute
1989	John P. Murtha, Congressman, U.S. Congress
1990	Flynt Kennedy, Consolidation Coal Company
1991	Robert E. Lumpkin, Amoco Corporation
1992	Sun W. Chun, PETC, U.S. Department of Energy
1993	James J. Markowsky, AEP Service Corporation
1994	Thomas F. Bechtel, METC, U.S. Department of Energy
1995	Adel F. Sarofim, Massachusetts Institute of Technology
1996	Donald M. Carlton, Radian International LLC
1997	David H. Pai, Foster Wheeler Development Corporation
1998	Masakatsu Nomura, Osaka University, Japan
1999	Frank Derbyshire, CAER, University of Kentucky
2001	Terry Wall, University of Newcastle, NSW, Australia
2002	Rita Bajura, NETL, U.S. Department of Energy
2003	Francis Lau, Institute of Gas Technology
2004	Baoqing Li, Chinese Academy of Sciences, China
2005	Kouichi Miura, Kyoto University, Japan
2006	Charles H. Goodman, Southern Company
2007	Ben Jager, Sasol Technology, South Africa
2008	Liang-Shi Fan, The Ohio State University
2009	Michael J. Mudd, The FutureGen Alliance

The 2010 Recipient
Prof. Dr. Güven ÖNAL



Istanbul Technical University
Istanbul, Turkey

Professor Güven Önal is a world leading authority in mineral and coal processing. Currently, he holds a lectureship in the Mineral Processing Engineering Department of Mining Faculty at Istanbul Technical University, Istanbul, Turkey. He is serving as the President of Balkan Scientific Committee, the Balkan Mineral Processing Science Academy and the Turkish Mining Development Foundation. He is also a member of numerous national and international scientific organizations, societies and foundations, including Russian Scientific Academy of Ecology and Environmental Protection, the Serbian Science Academy, the Balkan Mineral Processing Science Academy, and the International Mineral Processing Congress Council.

The main focus of Professor Önal's scientific research deals with the fundamental theory of fine particle classification and separation with a particular emphasis on the development of coal and chromite processing and dewatering technologies. He has published over 350 articles, papers and 27 books in Turkish, English and German. In addition, his achievements in technological development have been demonstrated in real-life applications at numerous mineral and coal processing plants.

Professor Önal graduated from Istanbul Technical University with a mining engineer degree in 1963 and earned his Doctorate degree in 1970. Following his graduation, he joined the Mining Faculty at the University and became a full professor in 1981. He has also served as a consultant to many industrial organizations and is active with industry-university collaboration.

2010 Annual

AWARDS PROGRAM



**Twenty-Seventh Annual International
Pittsburgh Coal Conference
October 11 – 14, 2010
Istanbul, TURKEY**



**University of Pittsburgh
Swanson School of Engineering**

Presented at the Awards Luncheon

Thursday, October 14, 2010

**Hilton Istanbul Convention Center
Istanbul, TURKEY**

**Sponsoring Organization
CONSOL Energy Inc.**