

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

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	Kouchi 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
2010	Güven Önal, Istanbul Technical University, Turkey
2011	Michael G. Morris, American Electric Power, Columbus, OH
2012	Richard L. Lawson, Energy, Environmental and Security Group, Ltd.
2013	Ke Liu, Shenhua Research, China

The 2014 Recipient
Ben Yamagata



**Executive Director, Coal Utilization
Research Council (CURC)**

Ben Yamagata has been involved in coal technology development since he served as counsel and staff director to the Subcommittee on Energy Research and Development, then a part of the U.S. Senate Committee on Interior and Insular Affairs. That committee was later to become the U.S. Senate Committee on Energy and Natural Resources. That subcommittee oversaw the Energy R&D activities of the old ERDA, the Energy Research and Development Administration, that was the predecessor to the now Department of Energy. His affiliation with energy technology development spans several decades.

Since entering the private practice of law in the early 1980's, Ben has led a number of industry coalitions and also provided legal counsel to parties involved in the development and commercialization of energy technologies, most particularly those related to coal. Furthermore, since the late 1990's Ben has been the executive director of the Coal Utilization Research Council (CURC), a coalition of industry and educational institutions with an interest in promoting clean coal technology.

Ben has advised clients on energy and environmental technology projects as well as provided counsel and representation in the structuring and advocacy for government programs, such as the Department of Energy's clean coal technology development programs and financial incentive programs (e.g., loan guarantees and clean coal tax credits) for energy projects. Ben graduated from Harvard College and received his law degree in 1972 from the George Washington University Law School in Washington, D.C. He practices law in the Nation's Capital.

2014 Annual

PITT AWARD PROGRAM



University of Pittsburgh
Swanson School of Engineering

Presented at the Awards Luncheon

Thursday, October 9, 2014

David L. Lawrence Convention Center
Pittsburgh, PA, USA

Thirty-First Annual International
Pittsburgh Coal Conference
October 6 - 9, 2014
Pittsburgh, PA, USA

Sponsoring Organization
CONSOL Energy Inc.