2017 Annual

PITT AWARD PROGRAM



University of Pittsburgh Swanson School of Engineering

Presented at the Awards Luncheon

Friday, September 8, 2017

Sheraton Pittsburgh Hotel at Station Square Pittsburgh, PA, USA



Thirty-Fourth Annual International Pittsburgh Coal Conference September 5 - 8, 2017 Pittsburgh, PA, USA

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 at 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, who has made a recent and significant contribution to the new technologies, new procedures or new policies toward coal utilization.

PITT AWARD RECIPIENTS

| 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 |
| 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 |
| 2014 | Ben Yamagata, Coal Utilization Research Council (CURC) |
| 2015 | Rainer Reimert, Karlsruhe Institute of Technology (KIT) |
| 2016 | Johan van Dyk, Africary, South Africa |
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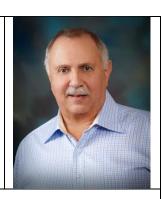
The 2017 Recipient

The Honorable

Robert H. Gentile

LTI





The Honorable Robert H. Gentile is the President/Chief Executive Officer of Leonardo Technologies, Inc. (LTI), a position he has held since 1999 when he formed the company. LTI is an engineering, strategic thinking, and energy technology company providing services to both private and government entities. Mr. Gentile also formed Atlantic Partners in 1991 and has served as its Managing Partner to the present. Mr. Gentile served as Vice President – International for KFx, Inc., from 1995 – 1997. During his time with KFx, Mr. Gentile developed international projects to beneficiate low-rank fuel for power generation for utilities, independent power producers and cogenerators, and for fuels for district heating.

Mr. Gentile served as Assistant Secretary for Fossil Energy, Department of Energy from 1989 – 1991. At the time, the Fossil Energy program had a \$3.5 billion operating budget with an asset portfolio valued at \$13 billion. The Fossil Energy program included the U.S. Government's programs to develop advanced coal, petroleum, and natural gas technologies, including the \$7 billion Clean Coal Technology Program. He managed the U.S. Government's fossil fuel research programs carried out by universities, private industry, and federal laboratories. He also managed the Strategic Petroleum Reserve and oversaw the first commercial drawdown of strategic oil stocks during the first Gulf War.

Mr. Gentile was the Director of the Office of Surface Mining and Reclamation and Enforcement at the Department of Interior (1988-1989) and Liaison for Coal Affairs (1986-1987) to both the Secretary of the Interior and the Interior Department's Assistant Secretary for Land and Minerals Management. From 1982 to 1986, he was Chief Executive Officer of The Ohio River Collieries Group, a consortium of companies conducting coal operations, construction and land development, and coal transportation operations in eastern Ohio, West Virginia and Oklahoma. For 7 years prior to that, he was President of N&G Construction Company (another coal company) which became part of the Ohio River Collieries Group.

Mr. Gentile holds a B.A. in political philosophy from Franciscan University and an M.B.A. in international trade and finance from the University of Toledo. He speaks several languages and has worked in over 40 countries. He serves as a Director of the International Energy Agency's Coal Industry Advisory Board and serves on the U.S.-Turkey Business Development Council, U.S. Department of Commerce. He was a Charter Member of the National Coal Council, a former Member of the Board of the National Mining Association, and Past President of the Washington Coal Club.