

## ENERGY SYMPOSIUM

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Titusville, PA

Sponsored by

Pittsburgh Section, American Chemical Society  
Pittsburgh Chapter, American Institute of Chemical Engineers  
Drake Well Museum  
Petroleum History Institute

### HISTORY OF ENERGY PRODUCTION IN PENNSYLVANIA HISTORY OF OIL AND GAS IN PENNSYLVANIA

William R. Brice, Editor, *Oil-Industry History*

**ABSTRACT:** Although petroleum and associated materials, such as natural gas, have been used by the human species literally for thousands of years, it was not until Edwin Drake and his team sank the first drilled well on the banks of Oil Creek, near Titusville, that the industry began to mature. Even though within the Commonwealth of Pennsylvania petroleum had been long used by the native peoples as well as European settlers, it was little more than a sideline or a nuisance prior to Drake's success. In this brief overview of the beginning of the modern petroleum industry, the major players and contributions will be discussed, as well as some of the unintended consequences that developed later.

**ABOUT THE AUTHOR:** Dr. Brice is a Professor Emeritus of Geology & Planetary Science at the University of Pittsburgh at Johnstown (Pennsylvania) where he joined the faculty in 1971. He was the founding President of the Petroleum History Institute (2003-2005) and has been the editor of the PHI journal *Oil-Industry History*, now in its 13th volume. His biography of Edwin Drake, *Myth, Legend, Reality; Edwin Laurentine Drake and the Early Oil Industry*, which was published in December of 2009 (Oil Region Alliance), has received two awards: *The John A. Mather Award* (2010) from the Friends of Drake Well, Titusville, Pennsylvania, and the first annual *Yellow Dog Award* (2011) for excellence in oil history from the Parkersburg Oil & Gas Museum, Parkersburg, West Virginia. Dr. Brice earned his B.S. in Physics and Mathematics from the University of Florida, Diploma of Education from the University of Tasmania (Australia), and his M.S.T. (Earth Science) and Ph.D. (Geochemistry) from Cornell University.

### HISTORY OF OIL REFINING IN PENNSYLVANIA

David DuBois, American Refining Group, Bradford PA

**ABSTRACT:** This presentation will be a review of refining history in Pennsylvania. It will include a brief history of some of the earliest refineries in Pennsylvania, where they were located and why, and what happened to them. It will also include an update on the current refineries in Pennsylvania and where they are located.

**ABOUT THE AUTHOR:** David DuBois graduated from the University of Pittsburgh with a degree in Chemical/Petroleum Engineering. He started his career with Witco Corporation – Kendall/Amalie Division in Bradford, PA as a Sales Engineer. From there he worked for the Society of Automotive Engineers primarily as a Staff Engineer responsible for the maintenance and development of standards in the Fuels and Lubricants Division. He is currently employed by American Refining Group in Bradford, PA, holding various positions until his most current one as Product Manager – Naphthas, Distillates, and Fuels.

### COAL IN THE UNITED STATES AND THROUGHOUT THE WORLD

Donald G. Puglio, P. G.

Senior Geologist, Consol Energy - Leatherwood, Inc.

**ABSTRACT:** Coal is a unique sedimentary rock. Modern day coal depositional analogues exist throughout the world, particularly in the Everglades and the Okefenokee Swamp. In the U.S., about 32% of coal production is by surface mining and about 68% by underground mining. Coal is the fastest growing fuel in the world (2003-2008). China accounted for about 85% of the world's growth in consumption in 2008. The U.S. holds the most proven reserves of coal, at 29% of the world's reserves, followed by Russia (19%) and China (14%). The

largest domestic market for coal is the electric utility industry, which accounts for 88% of U.S. annual coal production.

**ABOUT THE AUTHOR:** Mr. Puglio has a B.S. in Geology, University of Dayton (1975), an M.S. in Geology, University of Pittsburgh (1977), and an MBA, University of Pittsburgh (1990). He has been employed by Consol Energy for 24 years, where he has been involved in Consol's coal-based operations as well as purchase of non-Marcellus oil and gas wells in western Pennsylvania and northern West Virginia.