

RICHARD C. FURMAN

CONSULTING ENGINEER

Address: 10404 S.W. 128 Terrace, Miami, Florida 33176
Date of Birth: January 7, 1947
Height: 6'0" **Weight:** 170 lbs.
Marital Status: Married: 2 children
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Education: Massachusetts Institute of Technology, MS CHE 1972.
Worcester Polytechnic Institute, BS CHE 1969.

Experience:

February 2003 to Present
Retired – Volunteer at Baptist Hospital of Miami to help children with cancer and public gasification
volunteer for the Clean Air Task Force (CATF) and the Natural Resources Defense Council (NRDC) to advise utilities, government agencies and the public about the environmental benefits and energy security of using coal technologies to produce electricity, fuels and chemicals .

September 1989 - February 2003

Consulting Engineer – New Energy Technologies

Consulting engineer to various utility companies, equipment manufacturers, government agencies and environmental organizations on the development and application of new energy technologies. Consultant in the areas of coal gasification, integrated gasification combined-cycle (IGCC) power plants, alternative fuels, cogeneration and natural gas cooling technologies. Identify potential applications for these new technologies with electric and gas utilities. Introduce these new technologies to company executives, government officials and potential users. Assist engineers with designs and applications for these new technologies. Create marketing programs with manufacturers for increased use of these technologies. Direct technical feasibility studies and financial analyses for site specific applications. Assist equipment manufacturers, the Electric Power Research Institute (EPRI), the Gas Research Institute (GRI), and the American Gas Cooling Center (AGCC) with development and demonstration of these new technologies. Provided expert testimony and information on new energy technologies to Florida's Public Service Commission, Brazil's Center for Gas Technology and Trinidad's National Gas Company.

August 1981 -
August 1989

Consulting Engineer – New Fuel Technologies

Consultant to various companies on the technical feasibility and business development for new fuel technologies. Major areas of consulting consist of the development and use of alternative new fuels and the conversion of power plants to these new fuels. Director and project manager for various development programs, feasibility studies, financial analyses, R&D projects, marketing analyses and commercialization of these new fuel technologies.

April 1977 -
July 1981

Florida Power & Light Company, Miami, Florida

Senior Project Coordinator – Research and Development

Managed FPL's coal conversion program and fuels R&D program.

Developed R&D projects with emphasis on alternative fuels and processes for electric power generation. Assessed the technical and economic feasibility of coal gasification, advanced coal cleaning technologies, coal-oil mixture technologies, coal-water slurry technologies, coal liquefaction processes, fluidized combustion processes and advanced pollution control methods. Established company R&D projects in uranium recovery, coal cleaning, coal-oil mixtures, coal-water slurries and combustion modifications.

September 1975 -
March 1977

Center for Energy Policy, Inc., Boston, Massachusetts
Program Manager

Organized multi-disciplinary studies on the technical and economic feasibility of power plant conversions from oil to coal, the pricing policies for fuels and electricity and future methods for energy conservation in space heating. Directed engineering study for the conversion of New England Electric's Brayton Point Plant from oil to coal.

May 1972 -
September 1975

Walden Research Division of ABCOR, Inc. Cambridge, Mass.
Senior Engineer

Industrial consultant for air pollution control, energy conservation, and industrial hygiene. Engaged in process modifications to reduce energy consumption. Responsible for engineering evaluations of air pollution control systems.

September 1970 -
June 1972

Massachusetts Institute of Technology, Cambridge, Mass.
Graduate Student, Teaching Assistant, Researcher

Researcher – NSF grant to evaluate future energy sources and their environmental impact. Researcher for book entitled "New Energy Technology," by Hottel and Howard, MIT Press.

Graduate Student – Master’s thesis: “Technical and Economic Evaluation of Coal Gasification Processes.”

Teaching Assistant – “Principles of Combustion and Air Pollution” and “Seminar in Air Pollution.”

June 1969 -
February 1970

Southern California Edison Company, Los Angeles, California
Chemical Engineer

Engaged in power plant combustion air pollution control. Investigated two-stage combustion to reduce nitrogen oxides emission.

Professional Organizations

Electric Power Research Institute - EPRI

Gas Research Institute - GRI

Association of Energy Engineers - AEE

Cogeneration Institute - CI

American Institute of Chemical Engineers - AIChE

American Gas Cooling Center – AGCC