

**Edward W. Funk**

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## PROFESSIONAL SUMMARY

Experienced R&D director at Exxon and Honeywell and presently a consultant and expert witness along with serving as a Professor of Chemical Engineering at University of Illinois. Technical expertise in applied chemistry and chemical engineering.

## PRESENT PROFESSIONAL

### 1. Consultant and expert witness 1992-present.

Technical consultant to medium-sized chemical companies and national laboratories. Expert witness on patent infringement and process/product liability cases with major law firms.

### 2. Professor of Chemical Engineering, University of Illinois 1992-present

Teaching of courses in process and product design

## PREVIOUS EXPERIENCE

Allied-Signal/UOP (now Honeywell), Des Plaines, IL, 1982-1992 Manager of Chemical Process/Product Technology

- Responsible for the commercial development of new products in the areas of polymers, membranes and films, environmental processes, and chemical processing, and novel process systems.

- This work led to new membranes, surface-modified films, ozone-friendly fluorocarbons, extraction processes for treating contaminated soils, conducting polymer resins, carbon molecular sieves, etc.
- Managed the advanced technology for UOP division of Honeywell, the process technology affiliate of Honeywell. This included petroleum processes and process technology in the food and related industries.
- Led the design effort that identified new commercial applications for oxygen-enrichment membranes and ultrafiltration processes for food processing.
- Lead technology manager in the Dow/Honeywell patent infringement suit which resulted in a \$30 million award to Honeywell.
- Project Manager for a \$5 million Department of Energy contract on the development of energy saving membrane processes. The yield from this contract included the first commercial processes for hydrocarbon separations, and a gas-membrane process for removal of carbon dioxide from natural gas.
- Obtained for Honeywell R&D contracts from NASA and Los Alamos and established joint R&D projects with Kraft and Procter & Gamble.

Corporate Research, Exxon, Linden, NJ, 1973-1982

Senior Research Engineer.

- Established a new program on the extraction of oil from Canadian tar sands and obtained the key patents. Directed the laboratory studies, developed unique software for process analysis, and built a small-scale demonstration units.
- Served as the principal engineer in the investigation of potential uses of supercritical fluid technology within Exxon's business units.
- Was lead engineer of the engineering/chemistry team that commercialized Exxon's FLEXSORB process for the use of aqueous tertiary amines for removal of acid gases from natural gas.

Ford Foundation, Chile 1971-1973

Fellow, Established new R&D programs focused on the food and mineral industries within government labs and universities.

## **EDUCATION**

Ph.D., Chemical Engineering, University of California, Berkeley, 1970  
B.S., Engineering Science, Yale, 1967

## **PROFESSIONAL ACTIVITIES**

Author of 40 technical papers and 35 presentations at technical meetings, national laboratories and industrial research centers. Author of 6 US patents.