

# LUTHER HOWARD WILLIAMSON, PhD

## Chemistry and Physics Consultant System Engineering And Laboratories (SEAL)

### EDUCATION

Ph.D., Physical Chemistry, Louisiana State Univ., Baton Rouge, LA, 1965  
Master of Science, Chemistry, Louisiana State Univ., Baton Rouge, LA, 1962  
Bachelor of Science, Chemistry & Physics, Louisiana State Univ., Baton Rouge, LA, 1959

### CERTIFICATIONS

Registered Professional Corrosion Engineer, California  
Corrosion Specialist, National Association of Corrosion Engineers

### PROFESSIONAL MEMBERSHIPS

NACE, National Association of Corrosion Engineers  
ACS, American Chemical Society  
SPE, Society of Petroleum Engineers

### TEACHING EXPERIENCE

Teaching Assistant, Louisiana State Univ., Chemistry Dept, Baton Rouge, LA;  
Lectured on Corrosion Theory, Corrosion Inhibitor Theory, Field Application of  
Corrosion Inhibitors, Sulfide Stress Cracking & Special Waterflood Problems  
in the yearly Corrosion and Water Treatment Course for engineers/technicians,  
Mobil Research & Development Corp.; Dallas, TX  
Developed Advanced Corrosion Curriculum for U.T. of Texas, Tyler, TX;  
Adjunct Instructor in Corrosion, Advanced Corrosion and Water Technology, U.T. of Texas, Tyler, TX;  
Teacher, College-level Physical Chemistry

### LABORATORY / SPECIAL STUDIES

Investigation of corrosion Inhibitor Combinations for High Temperature Acidizing;  
Corrosion Inhibitors for Sour Brines;  
Evaluation and Development of Corrosion Inhibitors;  
Study of Sulfide Stress Cracking of High Strength Steels;  
Hydrogen Embrittlement Detector; Potential Corrosiveness of Reflux Zone in Shut-in Gas Wells;  
Study of Erosion/Corrosion by Sand in Oil;  
Study of Corrosion in CaCL/Br Completion and Packer Fluids at Simulated Well Conditions;  
Fundamental research studies on cracking catalysts; statistical analysis of data and control lab work in synthetic rubber plant

### HONORARY AND AWARDS

Accredited as Corrosion Specialist, NACE International  
Listed in AMERICAN MEN AND WOMEN OF SCIENCE

### QUALIFICATIONS

Thirty-two years experience as: Corrosion/Technical Service consultant; Staff Corrosion Engineer; Senior Research Chemist/Research Chemist.  
Corrosion and Technical Service Consultant: Provided technical service support as an Independent consultant and problem solver in corrosion control, water chemistry, chemical programs, materials performance and failure analysis;  
Staff Corrosion Engineer: Defined and developed appropriate level of company activity in corrosion control, defined and solved practical problems of economic significance in the areas of corrosion, scale, water treatment, materials failure and other problems of a technical nature for Superior Oil's production operations.  
Senior Research Chemist/Research Chemist: Technical service consultant for Mobil's worldwide operations; responsible for developing and applying the highest, practical levels of technology to the solution of corrosion, materials failure, water treatment, pollution and relation production problems.  
Multi-disciplinary education in Chemistry and Physics.

### PROFESSIONAL EXPERIENCE

Present	Consultant, System Engineering And Laboratories Corporation, Tyler, TX;
1985 - Present	Corrosion and Technical Service Consultant, TEX Services, Tyler & Conroe, TX;
1978 - 1985	Staff Corrosion Engineer, The Superior Oil Co., Houston, TX
1970 - 1978	Senior Research Chemist, Mobil Research and Development Corp., Dallas, TX;
1965 - 1970	Research Chemist, Mobil Research and Development Corp., Dallas, TX;
1958 - 1965	Teaching Assistant, Louisiana State University, Chemistry Dept., Baton Rouge, LA;
1963	Exxon Research Laboratory, Baton Rouge, LA
1958	Louisiana Dept. of Wildlife & Fisheries, Baton Rouge, LA
1957	Copolymer Rubber & Chemistry Corp.; Baton Rouge, LA