



## CARL J. ALTSTETTER, Sc.D.

*Sc.D. IN METALLURGY*

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### CURRENT EMPLOYMENT

#### Ruhl Forensic, Inc., since 1992

Consultant in physical metallurgy, corrosion, mechanical metallurgy, kinetics, thermodynamics, structure of metals, alloy design

#### University of Illinois, Urbana-Champaign, IL, since 1958

Professor Emeritus Materials Science and Engineering Dept.	2002-Present
Professor Materials Science and Engineering Dept.	1969-2002
Assistant Dean of Engineering Director of International Programs	1996-Present
Chair, Metals Division Materials Science and Engineering Dept.	1994 1989-1990
Associate Dean for Academic Affairs College of Engineering	1990-1993
Acting Head Materials Science and Engineering	Fall, 1988
Acting Head Department of Metallurgy	1974-1975
Associate Professor Materials Science and Engineering Dept.	1963-1969
Assistant Professor Materials Science and Engineering Dept.	1958-1963

### EDUCATION

Sc.D. 1958 Major Field	Massachusetts Institute of Technology Metallurgy
M.S. 1954 Major Field	Illinois Institute of Technology Metallurgy

Met.E. 1953                      University of Cincinnati

### TEACHING AND RESEARCH AREAS

Teaching: Physical metallurgy, corrosion, mechanical metallurgy, kinetics, thermodynamics, structure of metals, alloy design

Research: Hydrogen embrittlement, nanophase processing and properties, stress corrosion cracking, oxygen in metals, laser processing, phase transformation, fatigue

### PROFESSIONAL ACTIVITIES

<u>Commonwealth Scientific and Industrial Research Organization</u> Melbourne Australia	Fall, 1993
<u>Aeronautical Research Laboratory</u> Melbourne, Australia	Fall, 1993
<u>National Tsing Hua University, Professor</u> Hsinchu, Taiwan	Winter, 1987
<u>National Institute for Materials Research</u> Pretoria, South Africa	Spring, 1985
<u>National Bureau of Standards</u> Washington, D.C.	Summer, 1983
<u>Max Planck Institut fur Metallforschung</u> Stuttgart, Germany	Fall, 1968
<u>University of California, Professor</u> Berkeley, CA	Fall, 1960
<u>Massachusetts Institute of Technology, Research Asst.</u> Cambridge, MA	1954-1958

### ADDITIONAL PROFESSIONAL ACTIVITIES

Industrial consulting in research and manufacturing  
Legal consulting in the areas of product liability and failure analysis  
Authored over 125 research publications in scientific journals and conference proceedings  
Lectured on research activities by invitation in the USA, Australia, Russia, South Africa, Korea, Taiwan, China, Japan, Germany, France, England, Yugoslavia, Poland, and Portugal  
Obtained research funding from the National Science Foundation, the Department of Energy, U.S. Air Force and industry  
Reviewed research proposals for various federal agencies  
Reviewed technical papers for various international journals  
Member of the Accreditation Team of the accreditation board for Engineering Education and Technology

Materials Science Board, National Technological University  
Board of Editors: Corrosion, Materials Chemistry and Physics

**PROFESSIONAL SOCIETIES**

American Society for Metals International, fellow and life time member  
Metallurgical Society of American Institute of Mining, Metallurgical and Petroleum Engineers  
American Society for Engineering Education  
Materials Research Society

**HONORS AND AWARDS**

Donald Burnett Teaching Award (1996)  
Distinguished Visiting Professor, Tsing Hua University, Taiwan (1987)  
Winchell Memorial Lectureship, Purdue University (1988)  
University of Cincinnati Distinguished Engineering Alumnus (1978)  
NATO Senior Scientist Fellowship (1977)  
Undergraduate Teaching Fellowship (1974)  
W.L. Everitt Undergraduate Teaching Excellence Award (1970)