

**John M. Rodgers**  
**Acoustic Emission Consulting, Inc.**

**Experience Resume**

Mr. Rodgers has been in the field of Acoustic Emission (AE) and nondestructive evaluation for over 20 years. He founded his company, Acoustic Emission Consulting, Inc., in 1991. The primary focus of this business is the development of standards and field services for acoustic emission testing of high energy piping in the fossil utility industry. He has been an integral part of EPRI R&D programs in this area since 1988, and was actively involved in Pacific Gas & Electric's R&D programs on hot reheat and superheater header inspection using AE from 1991-94. The EPRI Guidelines for AE testing of seamed hot reheat piping were published in Nov. 1995, and were the result of the collaborative efforts of PG&E, EPRI, and AEC. He has been responsible for development of testing methodologies and hardware that have contributed to improvements in field testing. These include high temperature couplant for temporary waveguide coupling, an improved sensor design for high energy piping, and a value-engineered waveguide design that lowers fabrication cost. Mr. Rodgers has also published a newsletter "Listening to Pipes", which is distributed to members of the fossil utility industry. He has co-authored over twenty technical publications in the field of acoustic emission.

**Employment History**

**Engineering Consultant.** Acoustic Emission Consulting, Inc. Principal consultant to the electric utility industry on acoustic emission applications in fossil power plants. Provides research, field testing, and standards development. Developed technical methodology, literature, and newsletter to assist the Electric Power Research Institute (Palo Alto, CA) in standardizing field practice for inspection of high energy piping systems. (1991-current)

**Manager of Engineering/R&D.** Hartford Steam Boiler Inspection Technologies, Inc., Sacramento, California. Formulated specifications; managed development of advanced digital data acquisition system. Coordinated engineering development teams in Sacramento and Austin, TX. Conceptualized and spearheaded development of boiler leak detection system design for Babcock and Wilcox. (1988 - 1991)

**Marketing Manager.** Acoustic Emission Technology Corporation (AET), Sacramento, California. Directed development of sales representation for high technology instrumentation throughout the United States, Europe and Asia. Negotiated joint technology and marketing agreements. Conducted product and market studies. Initiated employee company buyout. Wrote business plan enabling successful acquisition by Hartford Steam Boiler. Promoted from **Sales Manager** and **Manager, Applications Engineering**. (1979 - 1988)

**Air Force Officer (Logistics Command).** Managed product development of state-of-the-art inspection instrumentation, including the F-105 Inflight Acoustic Emission Crack Detection Monitor. Facilitated formulation of specifications for aircraft corrosion control and nondestructive testing. Developed inspection techniques that significantly reduced costs and improved reliability of bonded panel inspections. Awarded Air Force Commendation Medal, 1st Oak Leaf Cluster. (1974-1979, Captain, Honorable Discharge)

**Education**

M.S., Metallurgical Engineering, 1974. University of Arizona, With High Distinction.  
B.S., Metallurgical Engineering, 1972. University of Arizona, With High Distinction.

Honors: Tau Beta Pi Engineering Honorary. Outstanding Senior Award, University of Arizona College of Mines.

### **Affiliations**

American Society of Nondestructive Testing (Chairman, Acoustic Emission Methods Committee 1990 - 1991); American Acoustic Emission Working Group; American Society for Testing Materials (E-07 Committee on Nondestructive Testing; Chairman, Committee on Acousto-Ultrasonics, 1990); American Society of Mechanical Engineers.

### **High Energy Piping Test Experience**

PECO Cromby—HRH, 1989—Offline steam injection, startup  
HL&P P.H. Robinson—HRH, 1990—Full line startup  
\*SDG&E Encina 4 & 5--Main Steam Wye Block, 1992  
\*VEPCO Mt. Storm 1--Main Steam, 1993—Startup, online, cooldown  
PG&E/EPRI Lab Test Program--HRH & Header, 1991-96  
**\*PG&E Potrero 3—HRH, 1991,94—Online, cooldown**  
**\*PP&L Montour 1—HRH, 1995--Online, cooldown**  
**\*CP&L Nueces Bay 6—HRH, 1996—Online, cooldown**  
**\*AEP Gavin 1—HRH, 1996—Online**  
**PG&E Pittsburg 6---HRH, 1996---Online, cooldown**  
**\*GRDA 1 & 2---HRH, 1997---Online, cooldown**  
**\*CPL Joslin ---HRH, 1997---Online, cooldown**  
**\*Sierra Pacific Power Valmy 2 ---HRH, 1997,98---Online, cooldown**  
**\*Kentucky Utilities Ghent 1 ---HRH & SH link piping, 1997---Startup, online, cooldown**  
**\*Kentucky Utilities Brown 3 ---HRH & SH link piping, 1997,98---Startup, online**  
**OG&E Mustang 4—HRH, 1997---Online, cooldown, startup**  
**\*OG&E Horseshoe Lake 7---HRH, 1997---Online, cooldown, startup**  
**\*CPL Lon Hill 4---HRH, 1997—Online, cooldown, startup**  
**\*AEP Gavin 2 ---HRH, 1997---Online**  
**\*United Illuminating New Haven Harbor 1---HRH, 1998---Online**  
**\*NIPSCO Schahfer 15---HRH, 1998---Online**  
**\*West Texas Utilities Oklaunion---HRH, 1998---Online**  
**\*Salt River Project Navajo 2---HRH Clamshell Elbows, 1998---Startup, online**  
**\*Illinois Power Wood River 4---HRH, 1998---Startup, online, cooldown**  
**\*Illinois Power Baldwin 1 & 2---HRH, 1998---Startup, online, cooldown**

### **EPRI Guidelines test programs**

\* Remote monitoring with AET 5500