Yehuda Krampfner

Senior Consultant

Education

MS, Materials Engineering, University of California, Los Angeles (1975)
BS, Mechanical Engineering, California State University, Long Beach (1973)

Professional Associations and Awards

Member – American Society of Mechanical Engineers (ASME)
Member – American Society of Non-Destructive Testing (ASNT)
U.S. Patents for inspection technology (No. 5,787,137, 5,710,378 & 5,047,719)

Professional Experience

1998 to Present	Structural Integrity Associates, Inc. San Jose, CA Senior Consultant
2001 to 2005	Structural Integrity Associates, Inc. San Jose, CA QA Manager, NDE Manager
1997 to 2001	Contra Costa College, San Pablo, CA Instructor, Inspection Technology (part-time) College of San Mateo, San Mateo, CA Instructor, Inspection Technology (part-time '99)
1993 to 1998	GE Nuclear Energy, San Jose, CA Principal Engineer / Project Manager Technical Expert – NDE Methods Engineering Leader – Materials Technology Group (during '97)
1985 to 1993	Failure Analysis Associates, Menlo Park, CA Senior Engineer
1983 to 1985	Lockheed Palo Alto Research Laboratory Research Scientist Lockheed Missiles and Space Company, Sunnyvale, CA Senior Product Assurance Engineer (1983)
1976 to 1983	Kaiser Aluminum & Chemical Corp., Center for Technology, Pleasanton, CA Staff Research Engineer
1973 to 1976	University of California, Los Angeles Post-Graduate Research Engineer

Summary

At Structural Integrity Associates, Mr. Krampfner has supported and managed various projects utilizing his expertise in NDE technology and materials engineering. These includes the development of customized test equipment and techniques to meet specific customer needs and the development of a field system for near-real time non-destructive condition assessment of combustion turbine blade high temperature protective coatings.

Mr. Krampfner was the Quality Assurance Manager for SI from 2001 until 2005. In this capacity he maintained the firm's QA program, which follows 10CFR50. This included training and indoctrination of employees, revising the QA manual, as needed and actively monitoring company projects, with emphasis on those defined as safety-related by the utility clients. In a related capacity, he was the NDE Manager for SI, whereby he maintained and updated inspection procedures and trained and certified inspection personnel per SI NDE Manual that is based on SNT-TC-1A.

At GE Nuclear Energy, Mr. Krampfner was responsible for the development of inspection techniques and procedures for the evaluation of nuclear reactor internals. He co-patented an inspection device for the in-situ examination of BWR jet pump beams and also co-patented a concept for the use of robotics to perform inspections and repair in previously inaccessible locations of the reactor vessel. He a GE Technical Expert in NDE methods, providing consultation and support on inspection and materials evaluation issues. He was certified by GE as a Level III in UT and ET. For approximately one year, Mr. Krampfner served as the Engineering Leader of the Materials Technology Group, providing leadership for 22 engineers, scientists and technicians. He also managed several medium-to-large projects ($0.5MM to $4.5MM). Including the development of 3D modeling of In-Reactor Radiation (for JOG, the Japan Owners Group), qualification for service of noble metal plasma spray coatings for mitigation of corrosion and a complete vessel surveillance program for the assessment of irradiation-induced embrittlement (for a European BWR).

At Failure Analysis Associates, Mr. Krampfner was active in the litigation support and the investigation of failures of materials, mechanical components and electrical/electro-mechanical systems. He was also involved in failure prevention through the development and application of NDE instrumentation, techniques and procedure for support to various industries (e.g. aerospace, power generation, petro-chemical, maritime, bioengineering and pharmaceutical). Additionally he managed, or supported materials evaluations projects for EPRI, DoD (e.g. Air Force and Army) and the National Science Foundation. He is the co-inventor of a novel eddy current probe array. He was certified by FaAA as a Level III in UT, ET and RTI. Still at FaAA, he supported the development and marketing of a PC-based eddy current test instrument; Additionally, Mr. Krampfner was responsible for applications engineering and probe design for the product.

At the Palo Alto Research Laboratory of Lockheed Missiles and Space Company (LMSC), Mr. Krampfner consulted to the Sunnyvale plant on inspection technology for space flight and experimental hardware (e.g. state-of-the-art composite and polymer materials using infrared, ultrasonic imaging, digital image analysis, electro-magnetic and radiographic techniques).

At Kaiser Aluminum, Center for Technology Mr. Krampfner developed NDE techniques and procedures for the manufacturing plants. Including product inspections and process-control solutions to manufacturing problems. He also developed and implemented an automated device for rapid condition assessment of ultrasonic test instruments. Test methods included UT, ET, PT, acoustic emissions and the development of a lab system for EMAT applications.

As a graduate student at UCLA, Mr. Krampfner was employed by the Materials Engineering Department to research mechanical properties of materials using acoustic emission monitoring techniques. This work was funded by NASA and was published as "Acoustic emission characteristics of copper alloys under low-cycle fatigue conditions, NASA-CR-134766, 1975".