

## Dinner Meeting

# Unusual Failure Patterns and Innovative Approaches to Failure Analysis

**Erhan Ulvan, Ph D, P Eng.**

Acuren Group Inc.



**Edmonton Chapter**

### Venue

Faculty Club  
University of Alberta  
11435 Saskatchewan Drive

### Date

Thursday, January 23<sup>rd</sup>, 2014

### Schedule

Registration 6:00 PM  
Dinner 6:30 PM  
Program 7:30 PM

### Abstract

Failures do not always show expected pattern and behavior. Conventional approach may be misleading and analyzing them may require new approaches and techniques. Some of these techniques may be invented during the investigation. The presentation will show unusual failure patterns, how to deal with an unusual failure and approaches to determine the root cause.

### Biography

Dr. Erhan Ulvan studied for his B. Sc. and M. Sc. in Metallurgical Engineering at the Middle East Technical University in Ankara, Turkey in 1979 and 1981 respectively. He received his Ph. D. in Materials Engineering for the University of the Witwatersrand in Johannesburg, South Africa in 1989. Erhan has broad experience with materials engineering and manufacturing, including: failure analysis of industrial components, metal forming, forging, low and high pressure die casting, heat treatment, metal fabrication, reverse engineering and corrosion control measures. Erhan is qualified by Ontario Superior Court of Justice as expert witness. He has extensive knowledge on joining of major alloy types, destructive and non-destructive testing methods, visual examination and codes and standards including ASTM, ASME sections II, VIII and ASME FFS-1. Erhan is a CWB Level I welding inspector. He also has wide knowledge on ISO 9000 and management accounting.

Dr. Ulvan has been involved in failure analysis and consulting in Metallurgical Engineering aspects since 1983. He has completed numerous failure analysis projects since then. He is Secretary of Failure Analysis Committee of ASM International, one of the past chairmen of Ontario Chapter of ASM International, Vice Chair of Canada Council of ASM International, Past Treasurer of Oakville Chapter of Professional Engineers of Ontario (PEO), and board member of CIM Hamilton Branch. He received Prof. Brian Ives Lectureship Award in 2012. He regularly presents papers related to failure analysis and chairs sessions at international conferences.

**\$25 for members of the affiliated societies (ASM, AWS, NACE, CWS, SME and CSME)**

**\$35 for non-members \$10 for students**

RSVP to [asm.edmonton@gmail.com](mailto:asm.edmonton@gmail.com) by January 21<sup>st</sup>, 2014