Daniel R. Grice, P.E.

Principal Materials Engineer

Materials Evaluation and Engineering, Inc. 13805 1st Avenue N, Suite 400

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SUMMARY

Materials engineer with experience in failure analysis, materials characterization, product evaluation, and research and development. Proficient in evaluation of failures in metallic and nonmetallic materials by fracture, wear, corrosion, thermal damage, or other degradation.

EDUCATION AND PROFESSIONAL CERTIFICATIONS

Bachelor of Science, Materials Science & Engineering, 2009 University of Wisconsin-Madison, Madison, Wisconsin

Registered Professional Materials and Metallurgical Engineer, 2015

Minnesota License 53128 Nebraska License E-18851

Montana License..... PEL-PE-LIC-74575

EXPERIENCE

December 2014 to Present

Materials Evaluation and Engineering, Inc. Plymouth, MN Materials Engineer, 2014 - 2015 Senior Materials Engineer, 2015 - 2024 Principal Materials Engineer, 2024 - present

- Perform product failure analyses for a diverse industrial clientele and to support insurance investigations and product-liability litigation.
- · Product development through component testing and material selection.
- · Manufacturing support through consultation on materials-related problems.
- · Materials engineering evaluation for forensic investigation of water damage, fires, explosions, and other product-failure incidents.
- · Provide expert witness testimony in the areas of materials science and failure analysis.

June 2013 to November 2014

IMR Test Labs Lansing, NY Manager, Metallurgical Services

- · Supervise a group of 11 metallurgical technicians and 4 metallurgical engineers
- · Assure departmental conformance to standards necessary to maintain A2LA, Nadcap, and customer-specific accreditations.
- · Act as the primary point of contact for external customers regarding results, work progress, scheduling, and prioritization for a group with approximately \$2.5 million in annual sales.

January 2010 to May 2013

IMR Test Labs Lansing, NY Metallurgical Engineer

- · Product support through failure analysis of industrial components.
- · Manufacturing support through characterization of materials-related problems.
- · Product development through component testing.

AWARDS AND RECOGNITION

- Journal of Failure Analysis and Prevention Editor's Choice Article, 2022
- · UW-Madison College of Engineering Early Career Award, 2021
- · ASM International Bronze Medal Award, 2020
- · ASM International Materials Education Foundation Outstanding Scholar, 2008

PROFESSIONAL AFFILIATIONS

- · ASM International Member 2006 present
 - Failure Analysis Committee Member, 2010 2016
 - · Failure Analysis Society Member, 2016 present
 - · Emerging Professional Board of Directors Member, 2016 2018
 - · Reviewer, ASM Handbook Volume 11B Characterization and Failure Analysis of Plastics, Published 2022 (https://doi.org/10.31399/asm.hb.v11B.9781627083959)
 - Reviewer, Journal of Failure Analysis and Prevention, 2015 present
 - International Metallographic Society Member, 2022 present
 - · AM&P Editorial Committee Member, 2023 present

PROFESSIONAL AFFILIATIONS (CONTINUED)

- · Material Advantage Committee Member, 2018 present
 - · Vice Chair 2021 2022; Chair 2022 2023
- Emerging Professionals Committee Member 2010 2016
 - · Secretary 2012 2013; Co-chair 2013 2015
- · ASM International Minnesota Chapter Member 2014 present
 - · Board Member 2015 2017
- ASM International Twin Tier Chapter Member 2010 2014
 - · Secretary 2010 2011; Chair 2011 2013
- University of Wisconsin-Madison Material Advantage Chapter Member 2006 2009
 - · Chair 2008 2009
- TMS Member 2006 2010, 2015

PUBLICATIONS AND TRAINING/CONFERENCE PRESENTATIONS

- · Grice, D., Hanke, L. & Mathias, J. Analysis of Stop Valve Leaks: Environmental Stress Cracking of Styrene Copolymer Valve Stems. J Fail. Anal. and Preven. (2022). https://doi.org/10.1007/s11668-022-01364-2
- · Grice, Daniel R. and Hanke, Larry D., "A Historical Perspective of Fracture Analysis" ASM Minnesota Chapter "Materials Retrospect: 100 Years of Advancement" Symposium, February 2020, Brooklyn Park, MN
- · Grice, Daniel R. and Hanke, Larry D., "Hydrogen Embrittlement Case Studies: Contributions from Materials Processing" MS&T 2019, October 2019, Portland, Oregon
- Hanke, Larry D. and Grice, Daniel R., "Radiant Tube Heater Failure Analysis and Resulting Changes to NFPA 54" MS&T 2019, October 2019, Portland, Oregon
- · Grice, Daniel R., "Fractography and Failure Analysis" Two-day, on-site course developed and taught for an industrial manufacturer, July 2019, Minnesota
- · Grice, Daniel R. and Hanke, Larry D., "Failure Analysis and Modeling Tools in Engineering Design" ASME Minnesota Section Symposium, March 2017, Plymouth, Minnesota
- · Grice, Daniel R. and Miller, Brett A., "Fatigue and Fracture of Bicycle Components" MS&T 2016, October 2016, Salt Lake City, Utah
- · Grice, Daniel R. and Burns, Neil D., "Case Studies in Environmentally Assisted Failures: Solving Their Problem When You Don't Know the Cause" MS&T 2013, October 2013, Montreal, Quebec.

RECENT DEPOSITION AND TRIAL EXPERIENCE

- State Farm Fire and Casualty Company, The Auto Club Group, Owners Insurance Company v. Dakota Electric Association, Comcast Cable Communications, LLC, Meier Regenscheid, Inc., Sure Shot Boring, Inc., State of Minnesota District Court, Dakota County, First Judicial District, 2024 Trial
- Brian K. Grittner v. Sears, Roebuck and Company, et al., and State Farm Fire and Casualty Company, et al., and Meaghan Heires, et al., and AIG Specialty Insurance Company, State of Wisconsin Circuit Court, Dane County, 2023 Deposition
- · Hastings Mutual Insurance Company, (Bruce Huizenga), v. Kohler Company v. LSP Products Group, Inc., State of Wisconsin Circuit Court, Dodge County, 2022 Deposition
- · Edward Ducheneaux and Mae Keller, as Co-Personal Representatives of the Estate of Paul Ducheneaux, Deceased, v Lower Yellowstone Rural Electric Association, Inc. and Elliott Equipment Company, United States District Court, District of Montana, 2021 Deposition