

Dieter Scholz

Senior Scientist / Quality Manager

SUMMARY

Scientist with over 15 years laboratory experience including analytical chemistry, materials characterization, product evaluation, and research and development. Proficient in metallographic sample preparation, microstructure evaluation, light microscopy, scanning electron microscopy, microanalysis, electrochemical corrosion testing, analytical chemistry, and metallurgical testing. As Quality Manager, ensures that the lab meets the quality requirements for instrumentation, calibration, auditing, and employee training and qualification.

EDUCATION AND PROFESSIONAL CERTIFICATIONS

Chemical Technology, 1991
St. Paul Technical College, St. Paul, Minnesota

Corrosion Fundamentals and Experimental Methods, 2008
Penn State University, State College, Pennsylvania

EXPERIENCE

June 1997 to Present

Materials Evaluation and Engineering, Inc.
Plymouth, MN
Laboratory Technologist

- Analyze, characterize, and evaluate the chemical, physical, and/or metallurgical properties of various engineering materials to aid in solving product, manufacturing, and research problems for high-technology clients.
- Develop and perform specialized analytical methods and protocols to evaluate material properties and determine failure mechanisms.
- Aid in maintenance of instrumentation for metallurgical and scanning electron microscopy laboratories, including metallurgical sample preparation equipment, light microscopies, scanning electron microscope, and energy dispersive x-ray spectroscopy system.

June 1991 to June 1997

Medtronic, Inc. - Promeon Division
Brooklyn Center, MN
Research Technician, Analytical Chemistry

- Perform analyses in support of manufacturing and Research and Development areas. Analytical methods include: scanning electron microscopy (SEM), energy dispersive spectroscopy (EDS), differential scanning calorimetry (DSC), water content, titrations for various active chemical functionalities, viscosity, and conductivity,
- Prepare samples for various analytical instruments such as high performance liquid chromatography (HPLC), gas chromatography (GC), differential scanning calorimetry (DSC), and thermal gravimetric analysis (TGA).
- Develop and revise analytical methods for unique samples and/or applications.

3M, Inc. - Industrial & Electronic Sector Research Laboratory
St. Paul, MN
Laboratory Technician

- Formulate, polymerize, and test industrial adhesives. Testing included rheology, tensile, peel and shear testing.

PROFESSIONAL AFFILIATIONS

- Minnesota Microscopy Society Member