



Solution Engineering Group®

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John Fildes, Ph.D.

Senior Consultant Chemistry

(630) 701-7703 JFildes@SolutionEngineering.com

Areas of Expertise:

Physical Chemistry
Materials - Polymers
Composite Materials
Tribology

Research-Industrial/Governmental

Tribology (Friction, Wear, Corrosion, and Materials Compatibility)

Semiconductor Materials and Devices

Sensors

Measurement Technology

Product Design

Expert Witness Investigations

Profile/Professional Experience:

Dr. Fildes has extremely strong problem-solving and analytical skills, excellent communications abilities, and decades of experience in successfully conveying, with credibility and confidence, highly technical issues to laypeople. He successfully tackles highly challenging technical problems and often sees key issues and devises approaches, which others have missed, through a combination of vast experience, extensive technical knowledge, creativity, an excellent understanding of testing and analysis, and strong project planning and management capabilities.

Dr. Fildes offers clients the ability to see problems in ways other have missed based on experience that spans broad knowledge of materials (metals, plastics, composites, ceramics, coatings), the relationship between materials processing and properties and performance, industrial problem solving and failure analysis, testing, product development and design.

Education:

- Virginia Polytechnic Institute and State University: Postdoctoral Research Associate, Chemical Engineering.
- Virginia Polytechnic Institute and State University: Ph.D., Chemistry (Physical).
- Georgetown University: B.S., Chemistry.
- Texas Instruments Learning Institute, Design for Six Sigma Manufacturability.
- Borg-Warner Corporation, Research, Development, and Engineering Management Program.
- The American Supplier Institute, Five Day Course in Quality Engineering, Methodology, and Application, Based on the Work of Dr. Genichi Taguchi.
- Massachusetts Institute of Technology, Special Summer Program in Microsensors.
- Battelle Memorial Institute, Course in Advanced Management Practices.
- Battelle Memorial Institute, Course in Engineer as Manager.
- American Vacuum Society, Certificate of Training in An Overview of Thin Film Deposition and Etching Processes.

Publications:

Dr. Fildes has published over 45 technical papers.