



G. Delbert Friesen, Ph.D.

Dr. Friesen has more than 25 years of hands on experience and leadership in materials property testing, electronic materials failure analysis and formulating. His expertise is in the characterization of electronic assembly materials.

Dr. Friesen's experience includes the development of specialty glass compositions, formulating conductive die attach adhesives, and managing an analytical testing laboratory.

Key areas of Dr. Friesen's accomplishments:

- Material property and product testing techniques
 - Thermal Analysis (DSC / TGA / TMA / DMA)
 - Failure Analysis (FT-IR / SEM / EDS / X-ray imaging / SAM scanning acoustic microscopy)
 - Thermal Conductivity (guarded ring heat flow / laser flash)
 - Shadow Moire warpage measurement
 - Fracture Toughness (SENB / compact tension)
 - Rheology measurement
 - Moisture Sorption
 - High Pressure Liquid Chromatography (HPLC)
 - Stress Modeling of Electronic Packages
- Formulating
 - Specialty glasses for CRT manufacturing
 - Anti-reflection optical coatings
 - Electrically and thermally conductive electronic assembly materials

Dr. Friesen received his B.A. degree in chemistry from Goshen College, Goshen, Indiana.

He received his Ph.D. in Inorganic Chemistry from Indiana University, Bloomington and held a post-doctoral position at Kettering Research Laboratory, Yellow Springs, Ohio.

How We Help You

InnoCentrix works with companies that:

- Manufacture or supply advanced polymers and composites
- Use advanced polymers and composites in their products
- Formulate advanced polymer-based adhesives and coatings

Working together, we increase client's revenues and profitability. We help you develop new markets and applications for existing materials, facilitate the product development process for new products, maximize the impact of the innovation portfolio, manage the intellectual property strategy and process, and solve complex polymer technical problems.

Our goal is to ensure each client has the capability to execute on the four critical success factors for highly profitable innovation:

- Focused advanced polymer technology development
- Development of product platforms (instead of single products)
- Utilize multidisciplinary teams designed for speed
- Leverage the use of outside resources (Open Innovation) to engage outside polymer and composite expertise