

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

J. DOUGLAS JETER, P.E. Products, Materials and Workplace Safety

Experience with Materials

- **Ceramics, Metals, and Polymers:** Glass (sheet, tempered, bottle, tableware, fiber), Coatings (Hermetic, Thermal Barrier, Semiconductor, Photovoltaic, Magnetic, Electromagnetic Shielding), Abrasives (Grinding Wheels), Sputtering Targets, Composites, Nuclear Materials (fuel pellets), Clay Products (brick, tile, porcelain, tableware), Concrete, Cement, Biomedical Prosthetics, Armor, Iron and Steel, Superalloys (jet turbine blades and vanes), Precious Metals, Refractory Metals, Material Joining (welding, brazing, soldering, adhesives), Elastomers, Plexiglass.

Experience with Product Design and Testing

- Industrial Equipment, Glass, Press Peripherals, Exercise Equipment, Hand Tools, Grinding Wheels, Nuclear Fuel, Vacuum Systems, Coatings, Dental Crowns, Biomedical Materials, Sputtering Targets, Packaging.

Experience with the Use and Safe Operation of the Following

- **General Industrial Equipment:** Presses (hydraulic, mechanical, rotary, hot, vacuum hot, hot isostatic), Press peripherals (feed shuttles, take-off systems), Drills (EDM, laser, drill press), Lathes (CNC and manual), Mills (CNC and manual), Mixers (Muller, V-blender, roll tumbler), Grinders (hand-held, bench, floor stand), Saws (EDM, diamond-tipped & metal blade), Polishers, Furnaces (electric and gas fired kilns, hydrogen atmosphere furnaces), Frit Pots, Extruders (piston and auger), Slurry Blenders, Industrial dryers, Sieves, Grit and Bead Blasters, Ball Mills, Sprayers, Injection Molding, Spray dryers, Sluggers, Industrial Gas Cylinders, Ovens, Humidity Chambers, Autoclaves.
- **Material Handling Equipment:** Conveyors, Overhead Cranes, Vacuum Lifts, Automatic Guided Vehicles.
- **Composite Manufacturing Equipment:** Sheet Molding Compound (SMC), Gun Roving Sprayers, Filament Winders, Hand Lay-Up Molds, Fabrics (Woven and Non-woven), Pultrusion, Glass Fiber Bushings, Glass Tanks (Melters), Sizing Application.
- **Coating Deposition Equipment:** Vacuum Chambers, Reactive Sputtering, E-beam, Chemical Vapor Deposition (CVD), Spin Coating, Spray Coating, Glove Boxes, Vacuum Pumps (mechanical roughing, turbo-molecular, molecular sieve gas traps), Vacuum gauges, Mass Spectrometers, Mass Flow Meters, Vacuum Dessicators.

Experience with the Following in the Workplace

- **General Industrial Safety, Protocol, and Regulations:** Lock Out/Tag Out, Machine Guarding, Confined Space Entry, Dust Masks, Chemical Safety, Plant Safety Rules and Enforcement, Employee Disciplinary Procedure, Clean Room Operations, Clean Room Protocol, Ventilation hoods for Chemicals Fumes, Laser Operations (drilling, welding).
- **Nuclear Radiation Safety:** Respirators, Geiger Counters, Radiation Safety, Criticality Safety, Nuclear Regulatory Commission (NRC) Rules and Regulations Compliance, Ventilation hoods for Radioactive Dust Removal/Capture.

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PROFESSIONAL EXPERIENCE

- 2009 to present **Robson Forensic, Inc.** Columbus, OH
Associate
Provide technical investigations, analysis, reports, and testimony toward the resolution of litigation and claims involving product liability, materials failures, and workplace safety.
- 2006 to 2009 **SCI Engineered Materials, Inc.** Columbus, OH
Marketing Manager
Provided primary research regarding sputtering target product niches in the semiconductor, photovoltaic, and magnetic media industries. Proposed new products based on this intelligence. Provided program management for developmental products from conceptualization through customer trials.
- 2006 **Capital University** Columbus, OH
Adjunct Faculty
Instructed MBA students in Statistics, Analytic and Quantitative Methods.
- 2005 **Edison Welding Institute** Columbus, OH
Team Manager / Technology Leader
Led ten scientists and technicians in the Microjoining, Plastics, and Ceramics group, which performed materials joining research for industrial, federal, and state clients. The group employed diverse techniques such as soldering, brazing, ultrasonic welding, laser welding, epoxies and resins to resolve materials joining issues in a variety of industries.
- 2001 to 2005 **Battelle Memorial Institute** Columbus, OH
Project/Program Manager
Provided program management for numerous thin film fabrication projects conducted in the Avionics and Electronics Systems cleanroom. Oversaw the re-design, retrofitting, installation, and qualification of an upgraded vacuum chamber system for e-beam coating deposition.
- Commercialization Program Manager* Columbus, OH
Assessed very early-stage materials technologies for spin-out potential. Provided commercialization strategy consultation to Battelle market sectors and DOE labs. Prepared presentations for venture capital investors. Contributed to the creation of Battelle's Technology Acquisition Process.
- 1995 to 2000 **Owens Corning** Science & Technology, Granville, OH
Leader, Process Engineering
Designed, prototyped, and tested innovative packaging systems.

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- Composites Planning Process Expert* World H.Q., Toledo, OH
Translated the operational model of the various European and North American composites reinforcement manufacturing plants into a format that could be processed by SAP enterprise software. Coordinated the creation and implementation of software that provided daily sales feedback to plant-level production scheduling. Integrated Australian/Indian operations into the global production planning model.
- Composites Planning Manager* Asia/Pacific, Hong Kong
Created Asia/Pacific sales forecasting and inventory control process. Compiled training course for fiberglass reinforcement manufacturing and end-use product fabrication, then trained regional sales and customer service representatives from Korea through India in its use. Coordinated trials of fiberglass reinforcement products for regional resin compatibility. Liaised with global manufacturing facilities to resolve local fitness-for-use issues.
- Global Planning Specialist* Composites, Anderson, SC
Linked global production at OC facilities, licensees, and joint ventures to global sales forecasts for three product lines. Created one-month, one-year, and five-year production and source-destination plans which took into account potential production disruptions caused by bushing replacements, glass formulation changes, furnace shutdowns for repair/rebuild, and ramp-up of new melters.
- 1994 **BellSouth Comunicaciones, SA** Santiago, Chile
Strategic Planner
Supported launch of domestic and global long distance service during Chilean telecom liberalization. Analyzed PCS wireless technologies, negotiated PCS vendor field trial proposals, and reviewed competitors' spectrum petitions. Member of team that submitted request for 1.8 GHz PCS concession to Chilean Government.
- 1989 to 1993 **General Electric** Nuclear Energy, Wilmington, NC
Area Coordinator
Directed 34 non-union employees in powder preparation; pellet pressing, sintering, grinding; rod and bundle assembly of UO₂ fuel bundles from UF₆ gas.
- Manufacturing Engineer* Nuclear Energy, Wilmington, NC
Qualified an internal lubricant for pressing UO₂ fuel pellets. Increased productivity 25% via redesigned press feed shuttles and 8% via improved tooling. Created fuel factory simulation which resulted in the purchase of \$1M furnace to eliminate a manufacturing bottleneck. Provided technical support for Spanish, Japanese, and Canadian licensees.

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J. DOUGLAS JETER, P.E. **Products, Materials and Workplace Safety**

Development Engineer Aircraft Engines, Madisonville, KY
Designed both the pilot-scale production trials of experimental thermal barrier coatings on jet turbine blades and the subsequent tests of coated blades produced.

Toolroom Team Leader Aircraft Engines, Madisonville, KY
Directed the work scheduling, safety, payroll for 17 union toolmakers in a facility that performed precision fabrication and repair of aerospace toolsets.

1985 **Coors Biomedical Company**

Technician

Fabricated, sintered, and destructively tested injection-molded ceramic dental crowns.

PROFESSIONAL CREDENTIALS

Professional Engineer: NCEES, South Carolina

EDUCATION

MBA, International Business, University of South Carolina, 1995

MS, Ceramic Science and Engineering, Rutgers University, 1989

Thesis: "Moisture Penetration in Films and Glasses." Thesis was a collaboration of Rutgers Centers for Ceramic Research and Fiber Optic Materials Research Program.

BS (cum laude), Ceramic Engineering, Clemson University, 1985

Additional Training:

Fracture Analysis and Failure Prevention of Glass and Ceramics, Alfred University, 2010

OSHA 511, Occupational Safety and Health Standards for General Industry (30 hours), 2010

Principles of Metal Failure Analysis, ASM International, 2009

High Powered Ultrasonic Joining, Edison Welding Institute, 2005

Fuel Cell Manufacturing Issues, National Center for Manufacturing Science, 2005

U.S. Department of Energy Hydrogen Program Annual Review, 2005

Fuel Cell Systems Overview & Modeling, Ohio State Center for Automotive Research, 2003

Fuel Cell Technical Network Interchange, Battelle Memorial Institute, 2001

The Basics of Material Handling, Materials Handling Institute, 2000

Introduction to SAP, Owens-Corning Fiberglas, 1999

Fiber Reinforced Plastics School, Owens-Corning Fiberglas Corporation, 1995

Personal Communications Services (PCS), Motorola, 1994

Telecommunications Fundamentals, CINCATEL INACAP, 1994

Intensive Latin American Business Training, Universidad de Costa Rica, 1994

Nuclear Criticality, NC State University, 1992

GE Chemical and Materials Leadership Program, 1991

Advanced Statistical Quality Control for Manufacturers, Clemson University, 1991

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PROFESSIONAL MEMBERSHIPS

ASM International
American Ceramic Society
Central Ohio Section Chairman, 2004-2008
Jeppson Award Committee, 2005-2008
National Institute of Ceramic Engineers

HONORS

Tau Beta Pi Engineering Honor Society
Keramos, National Honor Society for Ceramic Engineers
Newcomen Award in Material History
National Merit Scholar

EXPERT NOT RETAINED