2018 Country Club Estates
Pacific, MO 63069
573-578-3241
glasstechnology@hotmail.com

CRAIG CARMODY
Consultant/Expert Witness

Glass Manufacturing Processes
Materials Failure Analysis
Combustion Systems

PROFESSIONAL EXPERIENCE

2005 – Present **International Project Manager**
Glass Strand, Inc.

Supervise the design and construction, operations and management of continuous filament fiberglass manufacturing plants worldwide. Supervise international work force consisting of consultants, engineers, managers and professional staff. Implement safety and ergonomic policies and supervise creation of safety training programs. Provide leadership for long term growth strategies and set technical goals using lean manufacturing to increase quality and production efficiency. Launch IT projects utilizing "PLC to enterprise level" integration to allow real time management of information for manufacturing, business management, inventory and sales and marketing management. Launch new product lines, research and develop new products, and manage on-site construction activities. Supervise legal matters, negotiate contracts, and work with legal counsel on all matters of intellectual property and business agreements. Design, manufacture, and provide field service for combustion systems and burner hardware.

Currently supervising construction of complete turn-key fiberglass manufacturing plants in Bahrain and Belarus.

2003 – 2006

Robson Forensic, Inc. **Forensic Engineer/Expert Witness**

Provided technical investigations, analysis, reports, affidavits and testimony towards the resolution of litigation involving:

Failure of Materials
Fractology Examinations
Guarding/Warning Issues
Industrial Process Engineering
Industrial Furnaces
Combustion Equipment

1996 – 2002 **Engineering Consultant**

Research Staff Consultant, University of Missouri-Rolla, Department of Ceramic Engineering. Designed, constructed, and operated pilot scale glass furnace for the *Center for Glass Research* furnace corrosion testing project.

In addition, supported projects and construction projects with major U.S. and foreign glass companies, raw material manufacturers, combustion technology providers, and industrial gas producers. Provided manufacturing improvements, and developed new reflective safety products. Designed and built industrial combustion systems and burners. Provided furnace design consulting and construction management services.

1997 – 1999

Flex-O-Lite, Inc. **Plant Engineer**

Supervised a staff of five managers and 91 direct reports in a specialty glass manufacturing facility. Responsible for capital projects, safety, production, maintenance, research and development, and customer service. Managed major capital project to install environmental abatement equipment.

1995 – 1997

MO-SCI Corporation **Project Engineer**

Supervised production and managed research projects for a high-technology glass company specializing in products for defense, electronics, bio-medical, and nuclear applications. Developed materials for nuclear waste vitrification at Savannah River Nuclear facility for the U.S. Department of Energy. Designed production processes to manufacture glass products for human bone implants and prostheses. Developed specialized glass composition for radar-decoy "chaff" for the U.S. Navy. Worked with federal law enforcement to develop explosive "taggants." Managed expansion project to increase production capacity by over 300% in less than one year.

1994 – 1995

PPG Industries **Production Engineer**

Supervised bulk material handling, and batching operations for a float glass facility producing over 1000 tons per day of flat glass for automotive end use. Supervised special projects to improve furnace operations and forming processes.

1992 – 1994

Combustion Tec, Inc. **Research and Development Engineer**
Field Service Engineer

Supervised R&D and design of new combustion systems for glass manufacturing. Worked with most major U.S. and many overseas glass companies to implement combustion technologies to reduce emissions and improve quality of products. Designed new burners and aided development of new systems still in use today worldwide. Designed liquid and gas flow control systems, supervised their manufacturing, and installed and started up capital equipment in the field. Worked on heat exchangers and furnaces for glass, ceramic, and non-ferrous metals production.

1991 – 1992

AFG Industries, Inc. **Technical Development Engineer**

Responsible for project management for large-scale plant improvements and maintenance projects. Supervised repair and installation of new equipment for glass processing. Created waste management strategies to reduce environmental impact and reduce waste disposal costs. Designed oxygen/natural gas combustion system to boost production and prolong furnace life.

EDUCATION

B.S. Ceramic Engineering, University of Missouri-Rolla, 1991

PROFESSIONAL ASSOCATIONS

American Ceramic Society, Member, 1986- Present
Research Staff Consultant, University of Missouri-Rolla, Dept. of Ceramic Engineering, 1996 - 2002

PUBLICATIONS

"Refractory Corrosion in Oxy/Fuel Systems, "Ceramic Industry Magazine, December 1999, Page 61.