

Stefan Butuc

Short Bio

Stefan Butuc graduated from University of Bucharest/Romania with a degree in Physical Chemistry in 1995 and a Masters in Chemistry from University of Houston in 2003. After working several years in the biomedical industry Stefan had his first job in the oilfield as a Materials Engineer for Hydril Pressure Control Division in Houston with focus on developing elastomers for BOPs, pulsation dampeners and stators. After 6 years with Hydril and a brief period at Hughes Christensen, Stefan joined NOV Monoflo division in 2008 as a Product Development Manager. During this time at NOV he was involved in the development of PowerPlus elastomer product line for Downhole power sections, as well as in various projects involving manufacturing process improvements. In 2013 Stefan joined Freudenberg Oil & Gas Technologies in May as the Materials and Laboratory Manager, being involved in developing elastomers for a wide range of applications in Oil & Gas industry. Stefan is currently working for PV Fluid, focusing his efforts in compounding new elastomers for power sections used in drilling applications.

STEFAN BUTUC

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PROFESSIONAL EXPERIENCE

2013-Present

Materials Development and Product Testing Lab Manager Freudenberg Oil and Gas Technologies

Responsible for overseeing all aspects of elastomeric, thermo plastic and metal to metal material development for Freudenberg Oil & Gas Technologies (FO>) in accordance with the established objectives and guidelines.

- Prepare, present and track development plans, budgets and results related to material development projects.
- Developed the entire Wellprotek elastomer compounds used in Freudenberg blowout preventers product line.
- Effectively managed all aspects of projects related to material development to ensure they are completed on-time and on-budget.
- Provide monthly written reports to facilitate the review of individual project status.
- Build and maintain relationships with the other Freudenberg & Co R&D groups in order to facilitate introduction to the market of new material technologies.
- Contribute to the technical roadmap by advising management team of opportunities and trends for material development that will enhance the competitive position of Freudenberg Oil & Gas in the market place.
- Rationalize, standardize and manage FO> materials portfolio.
- Manage the internalization of compounds used throughout FO>.
- Lead new material development and applications engineering using existing Freudenberg technology.
- Provide material recommendations based on customer inquiries.
- Coordinate with suppliers to ensure quality material supply while achieving cost targets in a timely fashion.
- Work with Marketing Department on material development, market opportunities and trends.
- Participate and engage in sharing technology and information between other groups and locations.
- Make recommendations regarding IP protection related to material development

2008-2013

Manager Product Development

National Oilwell Varco (Houston, TX)

Development of the new elastomers for mud motors power sections. Created PRR and POB power sections elastomers, which currently are used in more than 80% of the NOV power section fleet. Winner of NOV Technology Award for 2011.

Development of new roller cone drill bit seals for geothermal applications

Implementation of nano-technologies in stator and drill bits elastomer applications.

Development/qualification of high temperature rubber to metal bonding agents

Creation of a fully operational rubber development laboratory, as well as managing laboratory personnel projects and testing schedule.

Regular meetings with customers for technical support, training and introduction of new technologies.

2007-2008

Hughes Christensen (Baker Hughes) (The Woodlands TX)

Research Scientist

Project management for developing new static and dynamic seals used in existing and experimental drill bits to support business growth. Evaluate new nano-scale fillers used in rubber compounding.

Research and development of new lubricants for improving performance of grease formulations. Mentor lower staff in testing implementation.

Part of the new knowledge based group for the material science peer group within Baker Hughes Corporation.

2002-2007

HYDRIL COMPANY LP (Houston TX)

Senior Materials and Processes Engineer/Plant Chemist

Engineering focal point for research and development of new elastomer compounds to be used for extreme temperature and pressure in blow out preventer applications. Failure analysis and pre and post sales customer support as well as participating in joined development projects for HPHT blowout preventers.

Implement the use of single wall nanotubes and nanoclays in elastomers used in high temperatures, high-pressure applications.

Managed and testing for development and production. Coordinated the projects of product development and rubber plant chemists as well as daily schedules for laboratory technicians. Ensured compliance with appropriate ASTM standards in laboratory testing, and performed internal and external ISO audits. Implemented new test methods as necessary. Reorganized lab in order to minimize costs and turn around times.

Implementation of experimental design techniques, statistics and SPC for optimizing polymer processing, compound properties and product performance.

1997 – 2002

BIOMEDICAL DEVELOPMENT LABORATORIES (Webster TX)

Manager Testing Services

Product/Process development, validation and quality control of medical devices based on synthetic polymers. Software support for testing and data acquisition.

Supervise research and product validation testing. Identify, design and execute projects benefiting the company's growth. Provide protocols and procedures for physical tests of biological and synthetic cardiovascular grafts. Good Laboratory Practice internal auditor.

Expertise in the area of customer support by learning and understanding customer problems.

Education

Master of Science, Chemistry-2003 (GPA 3.95)
University of Houston, Clear Lake

Bachelor of Science, Physical-Chemistry - 1995
University of Bucharest, Romania

University of Texas, Austin
Executive Certification-Technology Commercialization (2010-2011)

Bachelor of Arts, Philosophy
University of London, UK

Patents

2013/8383559 RELEASABLE CORROSION INHIBITORS

2010/0140516 BOP PACKING UNITS SELECTIVELY TREATED WITH ELECTRON BEAM
RADIATION AND RELATED METHODS

2008/0066906 ANNULAR BOP PACKING UNIT

2008/0023865 REVISED CURE CYCLE FOR ANNULAR PACKING UNITS