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Summary

Highly experienced in a variety of R&D, Quality, Engineering, & Manufacturing positions. Extensive exposure to product, project, and process development in personal care & consumer products industries. Highly successful in working with contract manufacturers/copackers on new product (NPD) startups.

Specialties

Key liaison between R&D and Operations. Advising internal and external manufacturing sites (copackers) on optimized processes. Extensive experience in international operations, including North America, South America, Europe, Africa, Asia-Pacific, China, etc. Countries with most recent involvement include Argentina, Mexico, South Africa, Kenya, Australia, and China. Major product categories include haircare, skincare, emulsions, and color cosmetics.

Experience

Consultant

Personal Care Process Engineering, LLC

2012-present

Process development and engineering, process optimization, scale-up of new products (NPD) in the personal care industry on a global scale.

Sr Manager, Commercialization

Alberto Culver, Inc.

Public Company; 1001-5000 employees; ACV; Cosmetics industry

2009 – 2011

Process Engineering, Stability, and Cost Savings functions but with emphasis on all aspects of commercializing new products from pilot plant through scale-up to full scale production, basically serving as the main conduit of information and technology between R&D/Product Development and Operations.

Sr Manager, Process Eng/Cost Savings/Stability

Alberto Culver, Inc.

Public Company; 1001-5000 employees; ACV; Cosmetics industry

2000 – 2009

Worldwide responsibility for process development and engineering, including pilot plant, scale-up, support to global plant sites, and qualification of & support to company's contract manufacturers. PE support comes from engineers at corporate R&D as well as plant process engineers.

Additionally directed a Cost Savings Group to explore costing opportunities through raw material sourcing. Also managed Stability Group responsible for validating and documenting stability of first commercial production.

VP, Quality Assurance

Cosmolab Inc

1997 – 1999 (2 years)

Re-engineered from QC to QA organization, using TQM & ISO9000 techniques. Also responsible for manufacturing oversight of separate cosmetics facility doing lipstick, nail polish, mascara, hot fills, etc. Additional responsibilities included GMP and Environmental Compliance.

VP, Manufacturing

Cosmolab Inc

1994 – 1997 (3 years)

Total responsibility for about 900 people in Production, Engineering, Maintenance, and Scheduling in a 3 shift, 6-day per week operation.

- Helped support a sales growth of 50-55% during this period.
- Managed multi-million dollar operating and capital budgets.
- Developed managerial personnel to manage change.
- Helped specify, acquire, and implement \$1MM expansion into new product lines (nail polish filling, lipstick & mascara mfg) at 2nd site.

Director

Cosmolab Inc

1990 – 1994 (4 years)

Compounding & Technical Services:

Responsibility for Compounding, Labs (Analytical, Color, & Micro), & Process Improvement (ca. 90 people). Increased productivity & turnaround time through new process equipment/technology and closer integration of support services.

Quality & Engineering Services:

Directed the activities of both the Quality Control and Package Dev./ Eng. Depts. (about 16 people). Additional responsibilities included Process Development, GMP Compliance, & Process Improvement.

Group Leader

Chesebrough-Pond's / Unilever

1974 – 1988 (14 years)

Process development & engineering, pilot plant, scale-up, troubleshooting, support to all brands, including Vaseline, Pond's, Aziza, Prince Matchabelli, Cutex, Health-Tex, etc.

Also led Cutex Product Development group for 1.5 years, developing One Coat nail polish.

Publications

- **Scale-up Basics for Formulators and Process Engineers**
 - Cosmetics & Toiletries Magazine
 - May 2011
 - Author: Bob Bornfriend

This article aims to help novice formulators understand issues that arise from the scale-up of their recipes, and to remind experienced formulators of some of the less common pitfalls. It also focuses on the unique demands of process development for global implementation at multiple sites, specifically pertaining to the scale-up tasks for process engineers at multinational companies.

- **Effects of Processing on the Rheological Behavior of Emulsions**
 - Cosmetics & Toiletries Magazine
 - July 1978

- Author: Bob Bornfriend

Patents

- **Water Dispersible Petroleum Jelly Compositions**
 - United States Patent 4,832,858
 - Issued February 19, 1987
 - Inventors: Vishnupad; Mohan (Monroe, CT), Ramirez; Jose E. (Trumbull, CT), Bornfriend; Robert A. (Ridgefield, CT)

A stable, water dispersible petroleum jelly formulation, which is an oil-in-water emulsion, is described which comprises water, petroleum jelly, optional humectant, and emulsifier. The composition is formed by ultrasonically emulsifying the various components which will ultimately form the emulsion.

- **Process for Catalyst Materials of Increased Pore Volume and Pore Diameter**
 - United States Patent 4,022,715
 - Issued May 10, 1977
 - Inventor: Robert Alan Bornfriend (Ridgefield, Conn.)

A process for producing molded catalyst materials of increased pore volume and pore diameter which comprises incorporating a blowing agent in the composition from which they are molded.

- **Mix-mulling Process for Improved Hydrotreating Catalyst and Resulting Product**
 - United States Patent 3,872,030
 - Issued March 18, 1975
 - Inventors: Feins; Irvin Ralph (Westport, CT), Bornfriend; Robert Alan (Norwalk, CT)

A mix-mulling process for a hydrodesulfurization catalyst composite is given wherein an alumina powder is milled with promoter sources in conjunction with urea, is extruded, is dehydrated, and is activated to provide composites of improved activity.

Education

Columbia University - School of Engineering and Applied Science

BS, Chemical Engineering

The University of Connecticut School of Business

MBA, Concentration in Production