
VP OF R&D / TECHNICAL DIRECTOR / PROGRAM MANAGER

Innovation / Global R&D Operations / Intellectual Property / Chemical & Process Engineering / Budgets / ISO / Product Development / Continuous Process Improvements / Patents / Trade Secrets / Commercialization / Project Management / EH&S / Testing / Compliance / Pilot Plants / OSHA / Risk Management / Manufacturing / Client & Supplier Relations / Facilities / Team Building / Staff Development / Best Practices / Hazmat

An innovative R&D leader with an exceptional record in the chemical industry developing, commercializing and constantly refining top-selling products. *Holder of 33 patents*. Expanded R&D pipelines and product portfolios at **Scientific Design Inc.**, **United Catalysts** and **Air Products**, as well as at the **University of Kansas Center for Environmentally Beneficial Catalysis**. Well versed in inorganic, organic and organometallic chemistry and an expert in catalysis. Accelerated R&D lifecycles, churning out solutions for a wide variety of applications. Can contribute by:

- Driving nonstop innovation & continuous improvements**
- Protecting intellectual property, trade secrets & know-how**
- Translating R&D breakthroughs into commercial successes**
- Aligning products & processes to meet evolving market needs**
- Assembling, mentoring & motivating top multidisciplinary talent**

Education and training includes a **PhD, Chemistry, Warsaw University of Technology**; **Post-Doc, Organometallic Chemistry, Tulane University**; **Research Fellow, Chemistry, Australian National University**; **Research Associate in Chemistry, UCSB**; and **MS, Chemical Process Technology, Warsaw University of Technology**.

SELECTED ACCOMPLISHMENTS

Forged synergistic university-corporate partnerships. CEBC sought new commercial alliance opportunities. Conducted extensive outreach to industry leaders, courting potential partners. Enlisted several global chemical industry leaders for new R&D and commercialization programs. Secured valuable funding and support.

Instituted commercial safety standards at an academic lab. Industry partners were concerned about CEBC safety protocols. Drawing on corporate experience, developed and promoted commercial Best Practices at CEBC labs. Leveraged the new levels of safety to encourage new and expanded partnerships, sponsorships and joint projects.

Revitalized R&D; quadrupled sales. SDI needed an improved EO catalyst. Accelerated commercialization of promising leads. Proved and rolled out a game-changing formulation in less than 12 months restoring SDI's category market leadership. Enabled quadrupling catalyst sales adding millions to the bottom line in less than two years.

Doubled revenues with new formulations. SDI needed a new high-selectivity EO catalyst. Taking advantage of competing patent's expiration, led an aggressive R&D program. Created three new formulations and won 10 patents. Quickly dominated SDI sales, growing catalyst volume sales by 50% and adding tens of millions in new revenue.

Sharpened competitiveness with innovative testing. SC-UCI needed to bring a more stable Houdry dehydrogenation catalyst to market. Developed a novel accelerated test process to simulate years of aging in only months. Significantly sped go-to-market cycles. Protected the method as a trade secret instead of a patent, carving out over 20-year-long competitive advantage.

CAREER HISTORY

Industry Liaison Director, Center for Environmentally Beneficial Catalysis (CEBC), University of Kansas, 2014-2016. Recruited to develop and manage valuable relationships with chemical industry partners and sponsors. Directed numerous programs, including IP and marketing of new R&D discoveries. Mentored graduate students and post-docs.

Director, Research & Development, Scientific Design Inc. (SDI), 2004-2014. Recruited to build a new R&D operation in a joint venture with **Saudi Basic Industries** and **Sud-Chemie**. Directed development of new EO catalysis processes and products. Played a key role in IP protection efforts. Managed budgets to \$10M and staff to 27.

Global New Technology/R&D Coordinator, Sud-Chemie/United Catalysts Inc. (SCI-UCI; now Clariant), 1999-2004. Promoted to lead development, commercialization and rollout of new catalysts and improvement of existing products. Directed projects in US, Germany and Japan. Managed budgets to \$3M and 20+ staff. Previously, **R&D Lab Manager**.

Earlier: Principal Research Chemist and Sr. Research Chemist, Air Products & Chemicals Inc.