

EDUCATION

University of Florida,  
BSChE Summa Cum Laude 1959  
Ph.D. Chem. Eng. 1964

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W O R K   E X P E R I E N C E

SAMOS PHARMACEUTICALS, LLC

April 1998 - Present

President

Consultant/Scientific Advisory Board Member/Executive for several companies in the fields of drug delivery, including oral(peptides), transdermal (passive and iontophoretic), implantable, injectable, buccal and vaginal delivery, DNA vaccine delivery, and biopolymers, resorbable and non-resorbable for medical devices and tissue engineering, including devices for orthopedics, adhesion prevention, ophthalmics, wound care, cardiovascular applications, as well as for cosmetics and skin care. Experience in preclinical as well as Phase I through III clinical development.

Aids clients in Business Plan preparation and in venture financing, through venture groups and through strategic alliances and joint ventures.

Bristol Myers-medical devices/2 year retainer; Convatec-skin issues; Kytogenics, Inc-peptide drug delivery, medical devices, polysaccharide biopolymers/10 year retainer; Indevus Pharmaceuticals-business development, implantable drug delivery, medical devices, biopolymers/10 year retainer; Lavipharm Laboratories-transdermal delivery/3 year retainer; Agile Therapeutics-transdermal delivery/10 year retainer; Cedar Pharma-expert opinion on patents; Shire Pharmaceuticals-transdermal delivery; Transport Pharma-Iontophoretic delivery; Transave-liposomes; Howrey Law-expert opinion transdermals; MD 3-biopolymers/medical devices; Reckitt Benckiser-transdermal, injectable; JNJ-transdermals; TyRx Pharma-biopolymers, drug delivery; FMC Biopolymers-biopolymers, wound care, Quacker Bio-expert opinion, iontophoresis; Dechert, LLP-expert opinion dermatologicals; Collagenix-topical delivery; Edge Pharmaceutical-Implantable delivery; Polytherapeutics-topical delivery, business development; Kore Pharma-IUD delivery; KAT Transdermals-generic transdermals; InteguRx-topical gel delivery.

BRISTOL-MYERS SQUIBB CORPORATION

June 1988 - April 1998

Vice President, Corporate R&D - ConvaTec

Responsible for polymer and process research, drug delivery, skin biology, analytical chemistry, clinical supply and preclinical testing groups. In charge of a group of 30 developing polymers, products, and processes for medical devices and pharmaceuticals. Development of devices for the wound care, ostomy and incontinence markets, and transdermal and buccal pharmaceutical systems for BMS support and diversification. Basic research in polymer and adhesive synthesis including urethane adhesives and thermoplastic hydrogels, polymer surface modification, and

biodegradable/bioabsorbable polymer modifications including PHB, caprolactone, chitosan, hyaluronic acid and collagen. Application of natural and synthetic polymers as templates for tissue engineering. Fundamental studies in skin adhesion, skin permeation, skin irritation and sensitization, antimicrobial skin lipids, and preparation of living skin equivalents. Responsible for identification, evaluation and project coordination of external industrial and academic programs.

HEALTH-CHEM CORP.

June 1971 - August 1973/September 1974 - April 1988

President and Founder Hercon Laboratories Corporation

Responsible for P & L for the company reporting directly to the President of Health-Chem. In charge of 110 employees in R & D, government regulations, quality control and production. Introduced to the marketplace a patch containing nitroglycerine and a novel wound dressing containing chlorhexidine. A clonidine patch for hypertension was submitted to FDA for approval and a dozen other products were in human clinical trials. The sales of the company had shown at least a 50% increase per year over the last four years.

Made over 50 presentations to stock exchange groups, pharmaceutical analysts and institutional groups worldwide. Instrumental in obtaining a 20 million convertible debenture for Health Chem.

Vice President

Responsible for R & D, government affairs, new product promotions and marketing, patent development and licensing for the newly formed Hercon Division. Introduced multimillion dollar products based on the Hercon controlled release technology, such as the S. C. Johnson Raid Roachtape and the Union Carbide Glad Air Freshener Scentstrips.

Engaged company in transdermal delivery of pharmaceutical products and negotiated 45 agreements including those with Ortho Pharmaceutical, Lederle Labs, Smith Kline, Warner Lambert, Squibb, Schering Plough, Hoffman LaRoche, and others for the development of transdermal therapeutic systems.

Director R & D

Developed processes (Hercon) for controlling the release of chemicals such as drugs, insecticides, repellents and pheromones from polymer membranes. Over twenty U.S.A. patents have issued and many more in several foreign countries.

BAXTER LABORATORIES

August 1973 - September 1974

Assistant Director of Corporate Biomedical Engineering

Responsible for the Corporate R & D for this half billion dollar medical device company. In charge of 85 engineers and scientists in the departments of polymer development, container processing, packaging, humidification, special projects, and pilot plant facilities. Major emphasis was in the development of polymers and polymer processes for the manufacturing of new containers for intravenous solutions, blood bags, freezer bags, humidification containers and unit dose vials.

CHEMTECH, INC., BOSTON, MASSACHUSETTS

May 1968 - June 1971

President and Co-founder

Responsible for financial and chemical engineering functions of the company. Supervised development work on urethane elastomers, moisture cured urethanes and two part system urethanes. Designed and installed pilot plant facilities and supervised the manufacture of several urethane products. Arranged financing for the company since its inception and negotiated the merger of Chemtech, Inc., with Ornsteen Chemical Co. (Seabrook, NH). Designed and installed the company's plant facilities for the production of urethane elastomers. Responsible for P & L until the company was acquired by Morton Thiokol (Chicago, IL).

COOPER UNION (POLYTECHNIC INSTITUTE), New York, NY

May 1968 - January 1970

Assistant Professor of Chemical Engineering

Responsibilities involved teaching of graduate and undergraduate courses in chemical engineering. Taught courses in Mass Transfer Operations, Physical Chemistry, Plant Design, Chemical Engineering Economics and Air Pollution. Research interests were in the areas of minimization of intersolubilizing effects in solvent crystallization processes, and simulation of chemical plants by digital computer. Faculty adviser to student chapter of AIChE.

UNION CAMP CORPORATION

December 1964 - May 1968

Process Scientist

Responsibilities included project planning and coordination, and economic evaluation and profitability studies of chemical plants. Development studies on processes to separate fatty acids from rosin acids and monounsaturated acids from polyunsaturated fatty acids.

UNION CARBIDE CORPORATION

June 1960 - September 1962

Chemical Engineer

Responsibilities included the development of equipment for plastics processing; developed and designed pilot plant equipment used for the elimination of contamination from thermoplastic materials. U.S. Patent #3197533 was issued on the equipment and product obtained. Studied the pyrolysis of thermoplastic materials using pilot plant equipment; investigated the effect of branching and molecular weight distributions on the mechanical and rheological properties of polymers; above investigation allowed the tailor-making of products for specific uses such as blow molding, extrusion, injection molding, coating and wire and cable.

HOBBIES AND OUTSIDE INTERESTS

Photography, Sports, Oil Painting  
American Men of Science

Recognition Award by the Controlled Release Society, 1990  
BMS Outstanding Corporate Contribution Award, 1992  
Election to Fellow of the CRS, 2010

Adjunct Professor: Cooper Union 1970 - 1971  
1975 - 1976

Director to: Nex Med, Inc, Scientific Advisory Board, 2008-2009  
Kytogenics Pharmaceuticals, Scient. Advis. Board 1998-2008  
Transport Pharmaceuticals, Scientific Advis. Board 2007-  
2009  
Valera Pharmaceuticals, Scientific Advisory Board, 1998-2007  
New Jersey Center for Biomaterials & Medical Devices-Member  
Industrial Advisory Board/1997  
MIT Biomaterials Consortium-Member Industrial Advisory  
Board/1997  
Health Chem Corp./1984  
Hercon Labs/1984-1988  
Controlled Release Society, 1973 - Present  
Cofounder/President/Vice President/Board Member/Trustee  
Krikos, Inc./1973-1980  
Chemtech, Inc. (Chairman)/1968-1971  
Exicon Import-Export Co./1972-1981

## BOOKS

Kydonieus, A.F., *Controlled Release Technologies: Methods, Theory, and Applications*, Vol. I, CRC Press, Florida, 1979.

Kydonieus, A.F., *Controlled Release Technologies: Methods, Theory, and Applications*, Vol. II, CRC Press, Florida, 1979.

Kydonieus, A.F., and Beroza, M., *Insect Suppression with Controlled Release Pheromone Systems*, Vol. I, CRC Press, Florida, 1982.

Kydonieus, A.F., and Beroza, M., *Insect Suppression with Controlled Release Pheromone Systems*, Vol. II, CRC Press, Florida, 1982.

Kydonieus, A.F., and Langer, R., *Controlled Release of Bioactive Materials*, 9th International Symposium Proceedings (Eds.), July 1982.

Kydonieus, A.F., and Berner, B., *Transdermal Delivery of Drugs*, Vol. I, CRC Press, Florida, December 1986.

Kydonieus, A.F., and Berner, B., *Transdermal Delivery of Drugs*, Vol. II, CRC Press, Florida, May 1987.

Kydonieus, A.F., and Berner, B., *Transdermal Delivery of Drugs*, Vol. III, CRC Press, Florida, May 1987.

Kydonieus, A.F., *Treatise on Controlled Drug Delivery*, Marcel Dekker, New York, September 1991.

Kydonieus, A. F., and Wille, J., *Biochemical Modulation of Skin Reactions: Transdermals, Topicals, Cosmetics*; CRC Press, Florida, January 2000.

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