

MARVIN BURNS – CURRICULUM VITAE

Marvin Burns is president of Bio-Tech Systems, a healthcare market research firm founded in 1980. The firm specializes in medical imaging and radioisotope products covering a broad range of diagnostic and therapeutic applications for strategic planning, market research, and development of new business opportunities. Burns is a graduate of M.I.T. in Mechanical Engineering and Harvard Business School's Advanced Management Program. He has over 100 publications and 15 patents and invention disclosures in bioinstrumentation, therapeutics and interventional products and technology.

PRESIDENT, BIO-TECH SYSTEMS, INC. (1980-Present)

Bio-Tech is a consulting firm founded by Marvin Burns to provide specialized management and marketing services in the biotechnology, medical imaging and healthcare fields. This encompasses a broad array of diagnostic and therapeutic products and services, focusing on market research, strategic planning, and the development of new business and market opportunities. Burns has prepared numerous market research studies involving diagnostic and therapeutic radiopharmaceuticals, brachytherapy products, PET radiopharmaceuticals and PET imaging, contrast agents, radiotherapy and immunotherapy products and interventional cardiology. These reports have been widely distributed to industry planners and executives and served as a platform for assessing new ventures, preparing business plans and evaluating new business opportunities across a broad spectrum of products.

CONSULTANT TO PHARMACEUTICAL AND MEDICAL IMAGING FIRMS (1980-Present)

Burns has been a consultant to many international pharmaceutical and medical imaging companies, focusing on strategic planning, market research, product evaluation, acquisition studies, and development of new business opportunities. This has covered emerging technologies as well as expansion of existing products in competitive markets. It has also served as a basis for evaluating new ventures, investment potential and technological risk.

TECHNOLOGY EDITOR, "FUTURE ONCOLOGY" (1995-2001)

"Future Oncology" is the primary publication of New Medicine, Inc., a research organization with interests in medical oncology and leading edge technologies for cancer diagnosis and therapy. The publication "Future Oncology" is widely circulated in the pharmaceutical and biotechnology industries and is utilized by executives in strategic planning and business development. As Technology Editor, Burns has undertaken numerous technology studies and prepared market research reports involving new targeted pharmaceuticals, immunotherapy and radiotherapy products and new drug delivery techniques.

CONSULTANT TO FROST & SULLIVAN, INC. (1980-1992)

Frost & Sullivan is one of the primary market research companies worldwide. Burns was its principal consultant in medical imaging, radioisotope products and biopharmaceuticals. This encompassed a broad range of products and technology for nuclear medicine, cardiovascular imaging and therapy, CT, MRI and ultrasound.

Burns also undertook numerous consulting assignments with healthcare clients in these fields.

CONSULTANT TO AMERICAN HOSPITAL ASSOCIATION (1983-1995)

Burns was a primary consultant to AHA and prepared Technology Guideline Reports utilized by hospital management in strategic planning and evaluation of new market opportunities. This has had an important impact in areas such as ultra-fast CT and PET (Positron Emission Tomography), as well as ultrasound and nuclear medicine.

PRESIDENT, MAGNACON, INC. (1988-1990)

Magnacon is a venture company developing a unique drug delivery system for cancer chemotherapy employing magnetically targeted microspheres. Burns was one of the company's founders and responsible for its business development, financial and marketing activities and negotiation of licensing agreements and joint ventures.

V.P. ENGINEERING, BIOJECT MEDICAL SYSTEMS LTD. (1985-1988)

Bioject Medical manufactures a needle-free injection system utilizing a high-pressure jet to introduce medication through the skin. The device is hand-held and powered by a disposable CO² cartridge. Burns generated the basic design concepts and is the primary inventor listed on the company's patents. He also set up a laboratory to implement the development, and prepared the 510K submission to the FDA that was successful in gaining pre-marketing approval. Bioject is listed on NASDAQ and has succeeded in forming strategic alliances with major pharmaceutical companies and healthcare providers oriented toward the safety, convenience and effectiveness of this form of drug delivery.

ADMINISTRATOR, LOS ANGELES NEW HOSPITAL (1978-1981)

Burns was responsible for general management of all professional services departments and hospital support activities for this 300-bed hospital. This included medical imaging, clinical laboratories, therapy services, pharmacy, and materials management. Responsibilities included management of technical personnel, acquisition of imaging and laboratory equipment, systems development and marketing of hospital services..

HOSPITAL CONSULTANT (1981-1985)

Hospital consulting programs in systems development, equipment selection, materials management, facilities planning, pharmacy management, and marketing of hospital services.

VICE PRESIDENT OF DIVERSIFICATION, DAYLIN, INC. (1978-1979)

In charge of acquisitions and new ventures related to hospital contract services and the manufacture and marketing of certain hospital disposable products.

DIRECTOR, NEW BUSINESS DEVELOPMENT, G.D. SEARLE & CO. (1973-1978)

In charge of market planning, acquisitions and new ventures for all of Searle's medical instrument activities (later acquired by Siemens). This included nuclear medicine, CT systems, ultrasound and clinical laboratory equipment.

**DIRECTOR, MEDICAL SCIENCES DIVISION, IIT RESEARCH INSTITUTE
(1965-1973)**

General management responsibility for this division of one of the largest contract research organizations nationally. Primary activities were in development of artificial organs and implantable devices, life support systems, diagnostic instrumentation, and biological testing and evaluation necessary for FDA approval.