

SHANE PATELAKIS, M.Sc.

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Education:

Completed a Bachelor of Science in Food Science Degree at Acadia University, Wolfville, NS in 1996 and a Master's of Science Degree (Faculty of Engineering) at DalTech, Dalhousie University in 1999. In 2006, was awarded the Business Development Bank of Canada (BDC) Young Entrepreneur Award 2006 (PEI) as well as the BDC-West Jet Creative Mind Award – Canada 2006.

In process of completing FITT – (Forum for International Trade Training) which will lead to a “Certified International Trade Professional” (CITP) designation. FITT equips individuals and businesses with the practical skills they need to succeed in today's competitive international trade marketplace.

Skills and Experience:

(08/2007 to 02/2009) Stirling Products North America Inc./Progressive BioActives Inc., PEI

Became a wholly owned subsidiary of Stirling Products LTD, Australia (ASX:STI)

Positions: President (Aug 24, 2007 to Sept 30, 2008), Vice President Technical Services (Oct 1/08-to date), Board of Directors (08/2007 to 02/2009)

Activities: Responsible for the day to day operations and implementing strategic goals. Other duties include strategic investment activities, sourcing and licencing of new technologies and/or tech transfers. Represent the publicly traded company and shareholders in various technical capacities and fund raising activities both private and public funded sources. www.stirlingproducts.net

(09/2006 to 12/2008*) Maritime Pulse Drying Inc. (custom spray drying for nutraceuticals)

Positions: President and Founder, *Sold company Dec 11/08 to Functional Technologies Corp.

Activities: As originating founder of MPD, responsibilities include: day to day operations and executing strategies, source funding/financing/investment and manage commercialization and setup of spray dryer operations.

(02/2004 to 08/2007) Progressive BioActives Inc. (PBI), Prince Edward Island

Positions: President & CEO (01/2007 to 11/ 2008), CEO (07/2005 to 12/2006), Chief Operating Officer (02/2004 to 07/2005), Secretary & Technical Innovation Mgr. *Sold company Aug 24/07 to Stirling Products Ltd.

Activities: As originating founder of PBI, responsibilities include: day to day operations and executing strategies. Represent and publicly promote the organization to the financial community & customers. Other responsibilities: (a) Source funding /investment, (b) develop, source funding and manage research projects, (c) setup and optimize extraction/production at pilot and large scale (d) assist in setup of PBI's quality control and operating procedures/plans.
www.progressivebioactives.com

(11/2003 to 03/2004) ImmuDyne Canada Inc., Prince Edward Island

Position: President

Activities: Developed primary goals, operating plans, policies, and short/ long range objectives for its human (nutraceutical/skincare) & animal supplement product lines. Source, acquire & leveraged government/private funding & research development grants. Responsible for the development of corporate strategies particularly in product development. Developed strategic partnerships, joint ventures, co-products and other such initiatives domestically and internationally.

(05/2003 to 11/2003) ImmuDyne Canada Inc., Prince Edward Island

Positions: Chief Operating Officer, Secretary and Technical Innovation Manager

Activities: Responsible for the setup of the company headquarters/office, day to day operations as well as implementing and executing strategies, improving the efficiency of the entire company, and sustaining the company's growth during the President's/CEO's absence. Ensured confidentiality and reliability of corporate data, proprietary information, and intellectual property. Contributed to the general business planning regarding technology and systems required to maintain company operations and competitiveness. Other responsibilities: (a) conducting and managing various research projects and optimization trials in R&D facility, (b) coordinating the setup of the full scale commercial production facility including building / land, equipment and hiring of staff and funding, (c) managing the day-to-day operations in the R&D facility and the commercial production facility once operational, including trouble shooting, recruitment and hiring and training staff, sending of samples/orders, (d) conduct/oversee research and production activities / trials, (e) assisting in the setup of ImmuDyne Canada's quality control and operating procedures/plans including its standardize operating procedures, quality control tests/limits, and HACCP plans.

(10/98 to 05/03) P.E.I. Food Technology Centre, PEI

Position: Food Scientist

Activities: Functioned as a project leader responsible for procuring, developing contracts, management of staff and resources to deliver industry driven product development and R&D projects for the food industry including trouble-shooting and analysis. In addition, this position was responsible for handling technical enquires received by FTC which involve dealing with individuals from the food science community, the general public (e.g., food safety), related government agencies (CFIA) and the food industry. Other duties include: internal ISO 9001 auditor; actively participate in developing, preparing, reviewing and writing quality plans, standard operating procedures (SOP) and forms; HACCP team member (certified HACCP training); assistant computer administrator for FTC and staff..

Contacts: Dr. Richard Ablett (Dir. BioScience Development – Tech PEI), Dr. Jim Smith
(Acting Director – PEI FTC)

(11/2002 to 04/2003) ImmuDyne Canada Inc., Prince Edward Island

Position: Acting President

Activities: Setup and publicly promoted the well being and the profile of the company, with customers, suppliers, investors, funding agencies, government departments and external stakeholders. Also was responsible for corporate strategies and anticipating future market trends, particularly in product development and distribution.

(10/2000 to 12/2002) Paramount 21 Canada Ltd., Prince Edward Island

Position: Technical Innovation Manager

Activities: Responsible for implementing and maintaining all the quality control/assurance activities from plant audits, raw, in-process and final material inspection. Also responsible for the following: all product development activities, development and review of promotional material, regulation/labelling of products, shipping and storage of raw and finished products, dealing with import/export issues (e.g., USDA/FDA, Canada Customs) and regulations including drafting and submitting proper documents, and handled all technical and non-technical inquiries related to operations and products including developing specification sheets etc. Furthermore, assisted in dealing with the day-to-day operations including billing, inventory, production schedule, etc.

Contacts: David Mills (President), Chris Amos (VP)

(01/2002 to 09/2002) Atlantic Opportunities Agency (ACOA), Prince Edward Island

Position: Account Manager - Atlantic Innovation Fund

Activities: Responsible for providing technical assistance/support in the delivery of the Atlantic Innovation Fund (AIF) program. The position also involved critically assessing / summarizing project details (i.e., science/technology, technical merit, budget/costings, etc), and rating proposals. Also prepared Project Summary Forms (PSF) for final sign off that summarize, capture and assess each proposal to determine if and how it complies with AIF objectives. Have also directly worked on preparing Q&A's and news releases/backgrounders for the minister/public, Q&A's for rejected projects, prepared various template documents/spread sheets (e.g., budget monitoring) to more effectively assess and deliver the AIF program.

Contacts: Gerard Watts (Account Manager / AIF Coordinator), Pat MacAulay (Manager, Policy, Planning and Coordination).

(05/97 – 09/97) National Sea Products, Lunenburg NS

Position: Food Technologist & Plant QC Technician

Activities: Developed Flavored Fillets for Loblaws (Salt & Vinegar and Herb & Garlic) launched Jan. 98. Assisted product development staff on a wide variety of projects with respect to formulation development, prototype production, QC data collection and analysis and presentations to team members and upper management. Coordinated production test runs, established standardized quality/testing method for accepting/rejecting incoming lots of powdered batter based on rheological measurements.

Contacts: Dr. Al Kenny, Andrew Strak, Selwyn Joseph, Darlene Broome

(Feb. 23-27, 1998) Canadian Institute of Fisheries Technology, Halifax NS

Activity: Completed CIFT's Short Course in Seafood Technology

Contact: Tom Gill (Director)

(1997-1988) Dalhousie University

Position: President of the Food Science Graduate Student Society

Activities: Provide representation for food science students within Dalhousie, and deal with student concerns & problems. Organized student functions.

(1997-1998) Dalhousie University

Position: Teaching Assistant & Lab Technician (Masters Level) for Fish Food II (1998), Industrial biotechnology (1997)

Contacts: Dr. Alex Speers & Dr. Tom Gill

(05/96 - 09/96) Technical University of NS (T.U.N.S)

Position: Researcher / Technician

Activity: Performed chemical, microbiological & other analytical & spectrophotometer measurements and designed & conducted experiments independently.

Contact: Dr. Alex Speers

(05/95 - 05/96) Maple Leaf Poultry, Canard NS

Position: Wastewater Treatment Operator

Activity: Operate/maintain processing parameters of the waste water treatment facility & filtering Systems.

Contact: Peter Macinnes (Manager-Maintenance Dept.) and Fred Norton (Sanitary Engineer)

(09/95-04/96) School of Nutrition & Food Science, Acadia University

Position: Lab Technician & Researcher

Activity: Investigated the effects of casein derived bioactive peptides on immune function.

Contact: Dr. J. Green-Johnson

(01/95- 05/96) Acadia University, Wolfville NS

Position: Lab Technician & Teaching Assistant

Activity: Food biotechnology, food microbiology and food engineering.

Contacts: Dr. P. Johnson Green, Dr. Segado

(1988-1992) Waterfront Diner & Dockside Restaurant, Lunenburg NS

Position: Assistant Manager, Cooks help and waiter for a local diner / restaurant

Contact: Yvonne Tanner

Committee/Industry participation:

(1) **Board of Directors, Stirling Products Limited (Australia)**, Executive Director seat on publically traded board 2007 to date www.stirlingproducts.net

(2) **Board of Directors, PEI BioAlliance Inc.**, Director, 2005, 2006, 2007, 2008

www.peibioalliance.com Mandate is to facilitate the development and growth of the "PEI Bioscience Cluster". Executive Director is Rory Francis. 5 key strategic areas: (I.) Livestock/Companion Animal Health and Nutrition Products, (II) Fish Health & Disease Management (III) BioActives, (IV) Bio-Products Working Group (Energy, materials, non- food uses (V) Bioactive Molecules from BSE Free Sources.

(3) Member of "**Bioscience Network Session**" 2004-to date.headed by TechPEI, members Gailene M., ACOA-Juanita Diamond, UPEI, Industry rep (S. Patelakis). This working group was formed to plan events for Bio-Science Networking Sessions to facilitate and improve the opportunity for developing vital relationships needed for cluster development.

(4) **Industry Participant & Presentation to Federal/Atlantic Canada Science & Technology Strategy Round Table**. October 12, 2007. Halifax-Dartmouth. Invited by the Honourable Rona Ambrose, President of the Queens Privy council and Minister of Inter Government Affiars.

(5) Invited and **presented as an Emerging Company to the Attendees of the InnoVet Conference**, October 14-16, 2007.

(6) **Board of Directors, Arthritis Society, PEI Chapter**. 2007 to date.

(7) "**BioInformatics Opportunity Assessment for the Biotech Sector**", Jan-May 2005 guiding committee participant both as private industry rep and ITAP-Bioscience Rep. Headed by ACOA- Jeff Burry/Pat/Thompson and Tech PEI etc. Purpose: to conduct a market opportunity assessment of the bioinformatics needs of a) the emerging bioscience cluster in Prince Edward Island, as well as b) the regional and national bioscience sectors. Consulting firm = Adventus Research Inc.

(8) Member of **ITAP** (Innovation Technology Assoc. of PEI) Board of Directors - Biotechnology Sector. My mandate is to represent industries concerns/issues to Industry/Government Stakeholder. 2004 & 2005.

(8) Member of **ITAP SECTOR COUNCIL EXECUTIVE**. 2005 Objective is to establish a Sector Council in order to provide human resource planning for the technology industry on PEI. My area of responsibility is the Biotechnology/Life Science area. Sector councils are permanent organizations that bring together representatives with different perspectives from key stakeholder groups in an industry sector. Ultimately, the activities of the sector council will help employers/workers by creating solutions that are responsive to the need of the labour market.

(9) Member of **PEI's Bioscience Cluster Steering Committee** since its inception. The committee headed by Rory Francis has a mandate to facilitate the development and growth of the "PEI Bioscience Cluster Initiative", 2004-2005 (ACOA/Tech PEI Initiative).

(10) "**BioScience Human Resource Strategy**". May-Sept 2005. On selection & evaluation committee. ITAP, through a 3rd party consultant (MRSB selected), will conduct a labour market study of the BioScience Sector and, based on the findings, develop a 3-year human resource strategy to address the current and anticipated supply and demand issues for qualified BioScience professionals including management, scientific and technical positions in PEI.

Publications & Papers:

Patent: USPTO Application 10/711980, Inventors: Courie, Philip Anthony Jr.; (Florence, KY) ; **Patelakis, Shane; (Cornwall, CA)** ; Miles, Amy Jo; (Edgewood, KY). Title: A Method of Producing an Economical and Ecologically Sound Natural Immunobiotic Extract for Use as a Health Management Instrument and a Replacement for Growth Promotion Antibiotics in Livestock and Companion Animals. Filed October 18, 2004, Published January 27, 2005. Status: Patent Pending

Guselle, N., Speare, D., Markham, F., **Patelakis, S.**, July 9, 2008. "Yeast beta-glucan administered via intraperitoneal injection and per OS protect against *Loma salmonae* in Rainbow Trout (*Oncorhynchus mykiss*). Presented at: UPEI VRE - Open Conference System, 2008 Fish Health Section-AFS Annual Meeting, Charlottetown PEI.

Hurnik, D., Vanderstichel, R., Hanna, P., Haruna, J., **Patelakis, S.**, January 2004. "A Pilot study comparing purified beta glucan to commercial vaccines and adjuvants in weaned pigs". Presented at: a. Proceedings of the Annual Meeting of the American Association of Swine Veterinarians, March 2004, Des Moines, Iowa. b. 18th Congress of the International Pig Veterinary Society, June 2004, Hamburg, Germany.

Hurnik, D., Foote, K., Vanderstichel, R., Phipps, J., **Patelakis, S.** & VanLunen, T (2004) A description of the effect of a purified beta-glucan extract on the antibody response to PRRS virus vaccination and to lymphocyte proliferation of weaned pigs. American Association of Swine Veterinarians. Journal of Swine Health and Production. Also Presented at the 18th Congress of the International Pig Veterinary Society, June 2004, Hamburg, Germany.

Hurnik, D., Spencer, P., Lank, T., Vanderstichel, R., Hanna, P., Haruna, J., **Patelakis, S.**, November 2004. "A Pilot study comparing purified beta glucan in pregnant sows and nursing pigs". Presented at the American Association of Swine Veterinarians, March 2005 (Toronto) by Ms. Nicola Jackson by title "The potential role of beta glucan for improving the survival of piglets to weaning".

Speers, R.A., **Patelakis, S.J.J.**, Paulson, A.T. and Oonsivilai, R. 2004. Shear rates in brewing operations. *One of four invited papers* for the MBAA Technical Quarterly, 41(3):241-247.

Patelakis, S.J.J., Speers, R.A., Paulson A.T. and Stewart, R. 1999. Effect of β -glucan polymers on the rheological and filtration properties of beer. American Society of Brewing Chemists 65th Annual Meeting, Presentation #O-9, June 19-23, Phoenix, AZ

Oonsivilai, R. **Patelakis, S.J.J.**, Speers, R.A., and Paulson A.T. 1999. Rheological and filtration properties of β -glucan polymers in the brewing process. CIFST Annual Meeting, Presentation #OR-12, June 6-9, Kelowna, BC.

Patelakis, S.J.J., Ritcey, L.L., Speers, R.A. 1998. Density of lectin-like receptors in the FLO1 phenotype of *Saccharomyces cerevisiae*. *Lett. Appl. Microbiol.* 26: 279-282.

Patelakis, S.J.J. and Speers, R.A. 1997. A review of β -glucans in the brewing process. MBAA Eastern Canada Section Annual Meeting, Presentation #4, Halifax, NS. July 29-Aug. 1.

Computer Skills:

Experience working with a wide range of software programs/operating platforms including Microsoft Office (Word, Excel, Access, Power Point, Publisher, Viso), Corel Office Suites (i.e., WordPerfect, Quattro Pro), hardware/software setup and trouble shooting.

Scholarships, and Other Awards Received:

Business Development Bank of Canada (BDC) Young Entrepreneur Award 2006 (PEI)
BDC Creative Mind Award – Canada 2006

DalTech, Dalhousie University (Masters Level):

-AACC Graduate Fellowship \$2K (98-99), -DalTech Research Grant \$2.5K (98-99), -IFT New York Section \$1.5K Fellowship (97-98), -Bruce & Dorothy Rosetti \$3K Engineering Research Scholarship (97-98), -President of the Food Science Graduate Society, DalTech (97-98), -Radiation Safety Training Certificate (1996), -Teaching Assistantship (Industrial Biotech, Fish Food II)

Acadia University, Wolfville NS:

-University Medal in Food Science (1996), -University Scholar Award (1996), -IFT Food Technology Undergrad Scholarship (1995-96), -American Association of Cereal Chemists Scholarship endowed by Kraft General Foods (1995-96), -Clarke K. McLeod Pre-Medical Scholarship (1994-96), -Ella Crowell Memorial Scholarship (1995-96), -IFT New York Section Jr./Sr. Scholarship (1994-95), -The Ruxby-Reid Gormley Scholarship in Nutrition (1994-95), -Molson Post Secondary Excellence Scholarship (1992-93), -Teaching Assistantships (Food Micro, Food Biotech, Food Engineering)
- Dean's List (1993-96)

Food Science Membership/Associations:

-IFT Professional member (1999 to 2004, student member 1992-1998) , -CIFST member since 1994-2004
-American Society of Brewing Chemists (ASBC) member since 1996-2004, -P.E.I Food Processors Association member 1998-2004.

Extracurricular Activities:

-Mountain biking, walking/hiking, rock climbing, boating & fishing, soccer, basketball.

Shane Patelakis

BIO

With his extensive business, entrepreneurial, and bioscience work experience, Shane Patelakis provides an excellent balance of skill sets to provide genuine support to this project. He has a degree in M. Sc. Food Science and over 10 years of experience in setting up many entrepreneurships, partnerships and collaborations activities, particularly in the nutraceutical/biotechnology sector.

Throughout his previous positions, Shane has been involved in numerous projects in nutraceuticals/functional food design, scale up operations, quality control, and R&D activities. He has published many scientific papers about the Beta-glucan molecule and its benefit to livestock. Acting at the executive level, Shane successfully commercialized this technology and launched a new product at Progressive BioActives Inc. and successfully raise over \$3.0 M prior to selling (Aug 2007) the company he founded which became a subsidiary of Stirling Products Ltd (STI:ASX). Shane has also successfully setup, developed and acquired licensing rights to a novel drying technology/system and raise over \$1.5 M for his other start up Maritime Pulse Drying Inc specializing in spray drying fragile bioactive nutraceuticals. The following list highlights his qualifications and achievements:

- Extensive experience in linking science to business, particularly in sourcing and licensing new technologies, conducting technology transfer, and managing operational activities associated with IP management/protection, technology licensing, negotiations, project management, and commercialization principles/practices
- Worked on over 70 Bio-agri related projects alone over a 4 year period while just at PEI Food Technology Centre with majority of projects related to value-added product development and commercialization of new novel Agri based products, nutraceuticals and functional foods.
- Practical business experience handling the whole business cycle elements from concept to research (clinical and industrial) for proof-of-concept, scale-up, and pre-/full scale commercialization
- Experience in regulatory application and approval experience for both human and animal health products
- BDC PEI Young Entrepreneur Award and BDC-West Jet Creative Mind Award in 2006
- In the process of completing FITT (Forum for International Trade Training) which will lead to a “Certified International Trade Professional” (CITP) designation
- Member of many board and technical committees related to science and technology