

Stephen P. Gould, CET

Senior Extraction Technologist

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Responsibilities:

- Pilot scale extraction of aquatic and land based plant material including advanced sonication techniques, supercritical fluid extraction technology.
- Assist with project design and development in the areas of equipment optimization.

Professional and Technical Background:

- Maintained laboratory operations and equipment to a level suitable for SCC accreditation and the ISO9000-2004 quality assurance program.
- Determined sources of equipment malfunction; interpreted data; trained personnel in the areas of laboratory analytical technique, SCC and ISO9001 standards, safety and equipment operation.
- Technical expert for analytical determination nutritional labeling and nutritional labeling results to clients.
- Responsible for Laboratory Management, Safety and Radiation Safety, including implementation of standard operating procedures, maintenance and care of equipment, scheduling of laboratory services and personnel; involved with the initial setup of the BioFoodTech laboratory, including direct involvement in design consultation, and effective allocation of capital budget and purchasing follow up.
- Performed research involving radiotracer analytical techniques and electron microscopy techniques of monitoring the effects specific enzymatic activity of cod fish under various storage conditions, and addressed the toxic shellfish problem in Prince Edward Island by developing analytical techniques for monitoring Domoic Acid, paralytic shellfish toxins and Diarrhetic shellfish toxin.

Previous Employment:

- Research Technician, Atlantic Veterinary College, University of Prince Edward Island;
- Fisheries Research Technician, Canadian Institute of Fisheries Technology at the Technical University of Nova Scotia;
- Laboratory Technician, Research and Productivity Council of New Brunswick;
- Fisheries Guardian (Summer employment), Fisheries and Oceans Canada.
- While employed by: T.U.N.S., conducted a wide range of biochemical and chemical analyses pertaining to industrial and academic research projects. Specific responsibilities included: monitoring degradation profiles of fish species subjected to variations of post mortem handling, processing and storage; assessment of textural properties within fish.
- Conducting pilot plant scale food processing operations; development of thermal processing parameters for various food products; offshore monitoring of fish

handling including sample collection; assisting graduate students with thesis work and instructing them in specific analyses and lab techniques.

Education:

- Diploma of Chemical Engineering Technology, NB Community College

Professional and Committee Memberships:

- American Association of Cereal Chemists (AACC);
- American Oil Chemists Association (AOCS);
- National Director (currently President) of the Canadian Council of Technicians and Technologists;
- Former Director of the Canadian Technology Human Resources Board (National Sector Council);
- Steering Committee for the Engineering and Technology Labour Market Study;
- Former President of the Association of Certified Engineering Technicians and Technologists;
- Volunteer Instructor Trainer St. John Ambulance;
- Commander, The Most Venerable Order of the Hospital of St. John of Jerusalem.

Selected Publications:

- Musgrave, M.A., Gould S.P. and Ablett, R.F., (1987). Enzymatic Lipid Peroxidation in the Gonadal and Hepatopancreatic Microsomal Fraction of Cultivated Mussels (*Mytilus Edulis L.*). J. Food Science Vol, 52, (3) :609-612.
- Chawla, P., MacKeigan, B., Gould S.P. and Ablett, R.F. (1988). Influence of Frozen Storage on Microsomal Phospholipase Activity in Myotomal Tissue of Atlantic Cod (*Gadus morhua*), J. Can. Inst. Food Sci. & Tech. 21(4): 399-402.
- Ablett, R.F. and Gould S.P., (1992) Subcellular Membrane Integrity of Atlantic Cod (*Gadus morhua*) Myotomal Tissue: Effects of Frozen Storage. J. Food Science Vol, 57, (3): 796-799.

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