



NEWS RELEASE

For immediate release

Promising technology transfer project for the fishing industry at the Coastal Zones Research Institute

December 4, 2008. An international company, TAMI Industries, is currently at the Coastal Zones Research Institute (CZRI) in order to fine tune a tangential flow filtration prototype adapted to fish processing plants. This innovative system for filtering the cooking water from marine products allows it to be recycled and for organic matter to be recovered from it in the form of a concentrated fish extract.

This scientific initiative is being carried out in the context of a major project initiated by the Coastal Zones Research Institute involving numerous partners working together on the valorization and commercialization of marine coproducts.

The Scientific Director for Fishery and Marine Products at the CZRI, Dr. Jacques Gagnon, established a partnership with Pêcheries Belle-Île to determine the potential for a technology transfer of this innovative system to the fishing industry. A pilot unit using the ceramic membranes and carters (cylinders containing these membranes) made by TAMI was developed by the CZRI's engineering service in collaboration with a local company, PMC Machine shop, allowing for the filtration of "salty" cooking water.

As explained by the project lead, Jacques Gagnon, testing of the prototype will begin with the use of cooking water from marine products (crab, lobster, etc.) which will be filtered by the system and extracts removed. The first extract, called the filtrate (permeate), is the clarified part of the cooking water that can be recycled, thereby providing for financial savings (on water and salt) while eliminating the pollution load. The second extract, called the concentrate (retentate), is a concentration of this cooking water that could be dried to form a powder. This powder, rich in the flavours and aromas of the fish and other interesting ingredients, could be used for value-added products in the food and natural products sector.

This promising experimental project for the fishing industry received significant support from the New Brunswick Department of Fisheries from the beginning, and is today being carried out in partnership with Pêcheries Belle-Île, the Canadian Centre for Fisheries Innovation, *the Industrial Research Assistance Program* of the National Research Council, TAMI North America and the Coastal Zones Research Institute.

Conclusive test results with the pilot tangential flow filtration unit could lead to significant spinoffs, both for the fishing industry and the Institute. The CZRI could become the technology showcase in the Atlantic region for the TAMI North America.

The initiative is consistent with the province's fisheries renewal plan involving the bioeconomy in which partnerships between the industry and research centres provide for reducing the costs and the risks associated with innovation and the development of new products.



Photo of the tangential flow filtration prototype with the CZRI team and the partners:

From left to right, first row:

Amandine Gourves, Université de Rennes (France), Intern with Tami North America, Claire Chataigner, École nationale supérieure de chimie de Montpellier (France), Intern at CZRI, Jacques Gagnon, Scientific Director – CZRI

Second row:

Adam Chiasson, Assistant Manager, Pêcheries Belle-Île
Pierre Rioux, Senior Advisor, Innovation and Bioeconomics, N.B. Department of Fisheries
Carole Lanteigne, Project Coordinator - CZRI

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