



Chemical & Physical Sciences
UNIVERSITY OF TORONTO
MISSISSAUGA

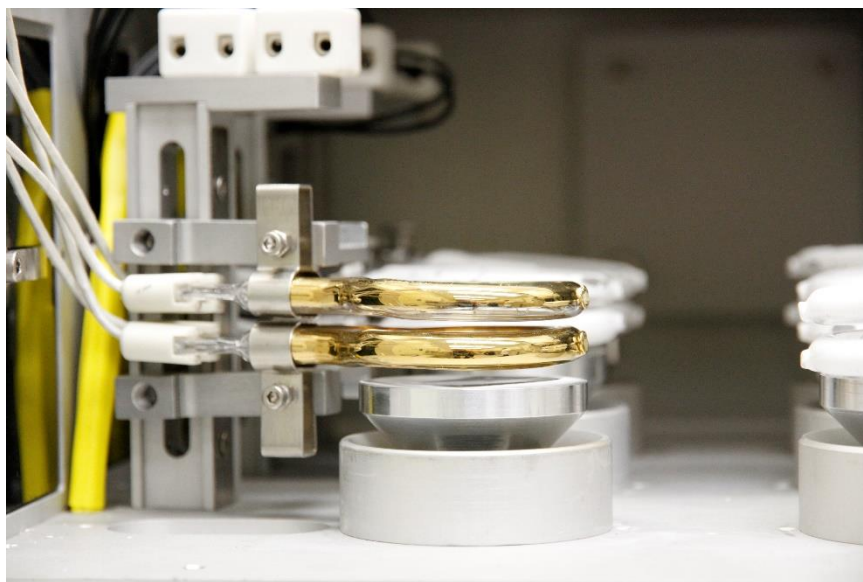
COLLOQUIUM TALK
TUESDAY, FEBRUARY 23, 2016
12:00 NOON – 1:00 PM
IB 260

Mr. Nick Kuryluk (*Chief Executive Officer*)

Mr. Kirill Pereverzev (*Technology Officer*)

ColdBlock Technologies Inc.

ColdBlock Digestion™ Technology: The First Sample Digestion Technology Using Focused Short-Wave Infrared Radiation (IR Lamps) and a ColdBlock.



ColdBlock™ Digestion systems, discovered and manufactured by ColdBlock Technologies Inc., is a new sample digestion technology that dissolves solid matter into a solution for multi-element analysis. The technology is the first to use short-wave infrared radiation (IR) utilizing IR lamps and a cold block to perform sample digestion. The high energy radiation produced by the IR lamps is absorbed directly by the sample particles in an acid medium, generating much higher

temperatures at the particle surface as compared to conventional systems. ColdBlock™ Digestion is setting a new performance standard in sample digestion, resulting in very rapid, accurate and precise results, especially for certain difficult-to-dissolve sample matrices, while eliminating the use of perchloric and hydrofluoric acid. It can be used in geochemical, environmental, food, agricultural and pharmaceutical laboratories. ColdBlock™ Digestion offers many benefits including improved health and safety, through the elimination of perchloric and hydrofluoric acid, higher efficiency and increased productivity gains.