

Dr. Lia Kouchachvili joined **Natural Resources Canada (CanmetENERGY-Ottawa)** in 2003. She holds a Ph.D. in Technical Sciences (Biotechnology and Organic Chemistry) from **D. Mendeleev University of Chemical Technology** of Russia (Moscow), and earned both her M.Chem.Eng. and B.Chem.Eng. degrees from **Georgian Technical University** in Tbilisi, Republic of Georgia.

At CanmetENERGY-Ottawa, Dr. Kouchachvili developed a **pyroelectric conversion unit** capable of generating high-voltage electricity from low-grade heat using ferroelectric and piezoelectric polymers. She has also investigated the performance of novel materials in **supercapacitors**, as well as the impact of supercapacitors on battery chemistry in **hybrid supercapacitor/battery energy storage systems**.

She is also actively involved in several **round robin activities with the International Energy Agency**, contributing to the development of **standardized methods for materials characterization**.

Currently, she is engaged in several clean energy generation and storage initiatives, including **Direct Carbon Fuel Cells, thermal energy storage, and electrification projects**—with a focus on **the second life of used EV batteries**.