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Use of muon radiation methods as complementary techniques to pulse radiolysis for nuclear applications

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Results from different investigations, on both fundamental science and nuclear applications of muon irradiation will be given. Some results of microscopic characterization of materials and free radicals, using muon spin spectroscopy, will be presented and discussed. The comparison with radiolysis data would be presented to show the complementary nature of muon science to pulse radiolysis along with potential new commercial applications from such results.

Biography

Khashayar Ghandi, (PhD-Chemistry), is currently working as an Associate Professor of Chemistry and a member of two Departments (Chemistry/Biochemistry and Physics) at Mount Allison University. He is also President of the International Society for Muon Spectroscopy, and winner of many international and national research awards in Canada. He has collaboration with several international and Canadian industries and a Founder of a green technology company in Canada that won the first prize in the province of New Brunswick. He was the Chairman for Board of User Committee at TRIUMF, a member of several international advisory committees related to Material Science and Radiation Technologies. He got his PhD at Simon Fraser University. Currently his researches focus on the energy production including nuclear technologies, radiation and green chemistry.

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