

Etienne Bousser is a Research Professional at the Functional Coating and Surface Engineering Laboratory (FCSEL) of Polytechnique Montréal, Quebec, Canada, in the Department of Engineering Physics.

After completing an undergraduate degree in mechanical engineering with a specialization in aeronautics, he spent three years at SKF Canada Ltd working on improving the lifetime of rotating machines. He then obtained his PhD in Engineering Physics at Polytechnique on the understanding of erosion mechanisms of protective coatings. He was then a visiting post-doctoral research fellow at the Henry Moseley X-ray Imaging Facility in the School of Materials of the University of Manchester, and a Research Professional at the Centre for Materials Microscopy Characterization (CM²) of Polytechnique Montreal where he was responsible for the implementation and methodology development of state-of-the-art materials characterization systems including a multi-species Plasma Focused Ion Beam system dedicated to the microstructural characterization of advanced materials.

Etienne has also been strongly involved in scientific societies, in particular as session chair of the ICMCTF, treasurer of the ASM International Montreal Chapter, and as program committee member of the tri-annual Functional Coatings and Surface Engineering (FCSE) symposia series in Montreal, Canada.

With more than 20 years of academic research experience, he has acquired extensive expertise in the field of protective coatings and in the characterization of tribological and mechanical properties of engineered surfaces as well as in micro/nano-structural analysis. Indeed, his research interest lies in understanding the multi-scale structure/property relationships that govern the mechanisms of materials degradation in order to design new materials and coating systems to extend the life of components operating in demanding environments.