



Swiss Master of Advanced Studies Nano- and Micro Technology

Federally recognized postgraduate education in
Nano- and Micro Technology

Prof. Dr. Eric Bergmann

Institute for Nanotechnology and Surface Engineering
HEPIA
4, rue de la prairie
CH-1202 Genève



Prof. Dr. Eric Bergmann received his PhD in solid state physics from the university of Graz, Austria before joining the international centre of the Battelle Memorial Institute in Geneva, where his research focused on surface science applications in electrochemistry and tribology. He built the first solid state fuel cell with a lifetime of 1000 hours in 1978. He then joined the Swatch group where he developed self-lubricating coatings for watch movements and decorative coatings for cases and bracelets. He built and managed the first deco coating centre outside Japan. In 1983 he presented the first black coated watches at the Basel fair: The Ferrari collection of Cartier. He joined Balzers as head of development for wear resistant coatings in 1984 and remained in that position for 10 years introducing new tool coatings, arc coating technology, the first large scale wear part coatings: Balinit C (WC/C) and the first industrial scale diamond coatings.

Since 1994 he is professor for Material Science at the Geneva School of Engineering and an industrial consultant.

He holds some 40 patents and is coauthor of the volume Surfaces of the French "Treatise of Material Science", contributor to several other books, author *viz.* co-author of some 80 research publications