

## 2010 ASC Board Elections - Materials



**René L. Flükiger**

<b>Affiliation</b>	University of Geneva, Switzerland and CERN, Geneva
<b>Position</b>	Professor at University of Geneva; Associate Researcher at CERN
<b>Previous Positions</b>	Department leader, Nuclear Research Center (now KIT), Inst. Techn. Physik, Karlsruhe (D)
<b>Education</b>	Experimental physics: ETH (Polytechnical Federal School, Zürich); PhD: University of Geneva (Switzerland), 1976
<b>Research Interests/ Areas of Expertise:</b>	Industrial methods for producing superconducting wires and tapes. Physical metallurgy, synthesis of intermetallic compounds. Irradiation of superconductors and insulators
<b>Approximate Number of Years in Applied Superconductivity</b>	34 years
<b>Membership in Professional Societies</b>	International Energy Agency (IEA), Vice Chairman of the Implementing Agreement "HTS superconductors": Carbon free energy applications
<b>Awards</b>	2005 IEEE Award for Continuing and Significant Contributions in Applied Superconductivity
<b>Service to Related Conferences</b>	Program Committee Member and session chair in various Conferences (ISS, ASC, MT, ICSM...)

**Statement** Applied superconductivity has a multidisciplinary aspect, ranging from physical metallurgy to industrial applications. In order to reach a sufficient market penetration, future developments of applied superconductivity will be directed towards a considerable lowering of CO<sub>2</sub> in energy applications, as a complement to other competing technologies.

The production of high quality wires and tapes and their analysis on a nanometric scale requires a particular skill, not only in physical metallurgy and deposition techniques, but also in advanced metal deformation techniques. If elected, I would encourage the formation of students in material science through ASC board actions.