

## iThEC ADS Initiatives

*Thursday, September 1, 2016 9:30 AM (45 minutes)*

The international Thorium Energy Committee (iThEC), a not for profit association, under Swiss law, was founded in 2012. Its members are engineers, physicists, and other concerned citizens acting to promote R&D on the use of thorium in order to transmute nuclear waste and produce safe, clean and abundant energy. To meet the tremendous world energy needs, systematic R&D has to be pursued to replace fossil fuels. Nuclear energy, which produces no green-house gases and no air pollution, should be a leading candidate, and in this context, thorium represents a great potential. iThEC is at the origin of two new initiatives, which I will present: a first ADS experiment of substantial power ( $\geq 1$  MW) and a high-power superconducting cyclotron design. Global cooperation is highly desirable in this domain, and I will discuss possibilities of cooperation based on the CERN experiment model.

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