

The banner features a portrait of Patrick White on the left. In the center, a speech bubble contains the MIT logo and the text 'Massachusetts Institute of Technology'. To the right, logos for 'Powered by FUSION' and 'FuseNet' are displayed. The main title 'Rethinking licensing and regulation for commercial fusion reactors' is prominently displayed in a green and blue gradient. Below the title is a diagram of a nuclear fusion reaction:  ${}^2\text{H} + {}^3\text{H} \rightarrow {}^4\text{He} + \text{n} + 17.6\text{MeV}$ , with the neutron labeled 'n + 14.1MeV' and the helium nucleus labeled ' ${}^4\text{He} + 3.5\text{MeV}$ '. A 'Fusion EP' logo is in the bottom right. At the bottom, a Zoom meeting ID '82145836365' and password '42C1AF0C' are provided, along with the time '18:00 PRAGUE' and date 'JUN 30'.

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**Title:** Rethinking licensing and regulations for commercial fusion reactors

**Speaker:** Patrick White, PhD candidate at MIT

**When:** 2020-06-30 18:00:00

**Abstract:** Successful commercial development of fusion energy will require us to find new ways to license and regulate fusion technology that enables innovative and economically viable designs. Fusion energy will likely have unique safety challenges related to the radioactive tritium used as fuel in most proposed commercial reactors. If we want to develop safe and economically competitive fusion energy, we need to incorporate safety and possible regulatory constraints on fusion technology early in the design process. This talk will discuss the major off-site hazards related to commercial fusion technology, what regulatory tools we can use to demonstrate the safety of fusion technology, and how these regulations could affect the design of future fusion power plan.

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