

SEMINAR NOTICE

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- SPEAKER:** Dr. Chijin Xiao,
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- TOPIC:** *Fusion Energy - Progress, Challenges, and the STOR-M tokamak*
- DATE:** Tuesday September 29th , 2026
- TIME:** 3:30-4:30 p.m.
- Room:** Phys 103

Fusion energy has been considered the ultimate solution to energy demand due to its intrinsic safety, low carbon footprint, and abundant fuel resources. Over the last seven decades, scientists and engineers have worked tirelessly on fusion energy development, and significant progress has been made. Laser fusion has achieved scientific fusion energy gain factor of $Q=4$, a ratio of the fusion energy output to the energy input. Quasi steady-state tokamak operation over 1000 seconds has been demonstrated in superconducting tokamaks. In recent years, many private fusion R&D companies around the world have attracted private investment exceeding the \$10B mark. This talk will discuss the status and challenges in fusion energy R&D. Finally, the long history of tokamak research at the University of Saskatchewan and a couple of examples of the original research done on the STOR-M tokamak, the only tokamak in Canada at this time, will be presented.