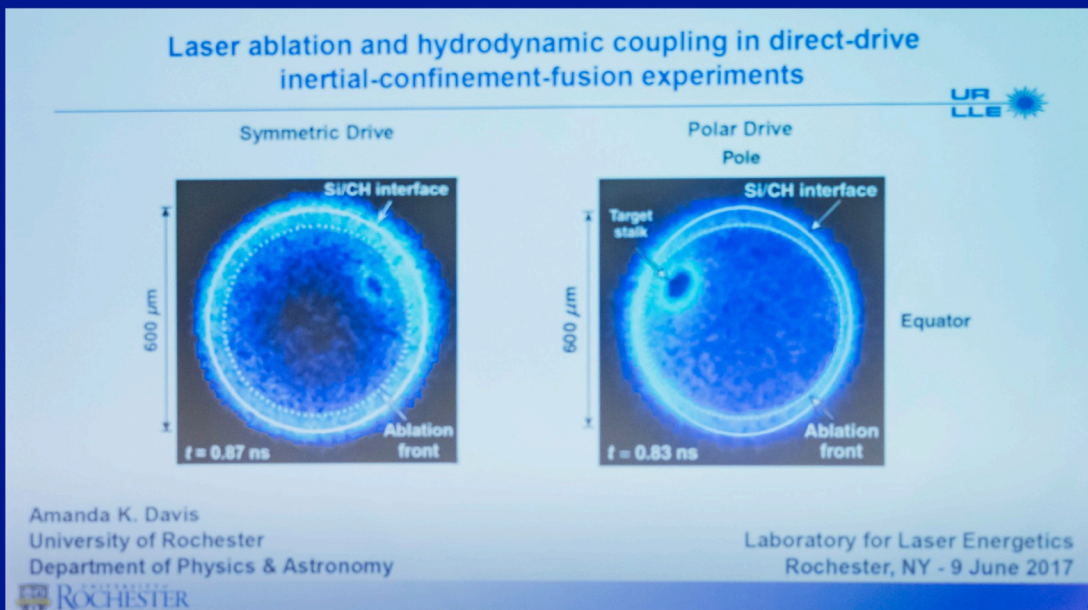
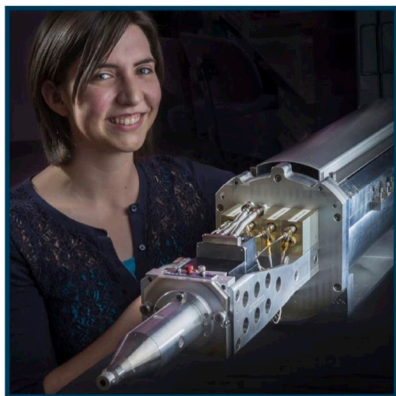


LLE Review

Quarterly Report



Dr. Amanda Davis graduated from the University of Rochester's Department of Physics and Astronomy in 2017. She started her graduate school journey in 2012 after completing her Bachelor of Science degree in Engineering Physics from the University of Arizona with Honors, magna cum laude. She was drawn to fusion energy and the Laboratory for Laser Energetics by her love of science fiction and interest in alternative energy sources.

Dr. Davis's thesis work, "Laser ablation and hydrodynamic coupling in direct-drive inertial-confinement-fusion experiments," focused on isolating the effects of cross-beam energy transfer from heat transport in laser-driven implosions and is a significant step forward in understanding direct-drive fusion. Her results were presented as an invited talk at the 2015 American Physical Society's Division of Plasma Physics annual meeting [A. K. Davis et al., Phys. Plasmas 23, 056306 (2016)]. Dr. Davis has accepted a fellowship with the National Nuclear Security Administration to continue her passion for fusion energy and to help shape the nation's science policies.



Dr. Davis with her technical advisor, D.T. Michel, and academic advisor, D.H. Froula



Thesis Defense

Dr. Amanda K. Davis

9 June 2017

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