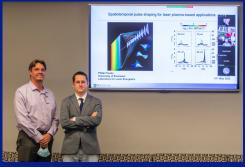


Dr. Phil Franke received his Ph.D. in Plasma Physics from the University of Rochester's Department of Physics and Astronomy in 2022. Dr. Franke started his graduate journey in 2016 after graduating with a Bachelor of Science from The University of Texas at Austin with honors. He was awarded the Frank J. Horton Graduate Fellowship in 2017 and joined the Plasma & Ultrafast Laser Science Group at the Laboratory for Laser Energetics.

Dr. Franke joined the research team just as they were pioneering the "flying focus" concept and used his quiet confidence to help facilitate several successful studies that were published in 13 manuscripts, including four published in Physical Review Letters. His early experiments used the flying focus to drive an ionization wave of arbitrary velocity (IWAV) and extended this work through modeling and experiments to larger channels [P. Franke et al. Optics Express 27(22) 31978 (2019)]. This led to an innovative optical shock-enhanced self-photon acceleration concept [P. Franke et al. Phys. Rev. A 104, 043520 (2021)]. Dr. Franke is equally capable in both modeling/theory and experiments/diagnostics.





Diane Boni, Bob Boni, Jeremy Pigeon, Chrysta Elliot, John Palastro, Matthew VanDusen-Gross, David Turnbull, Tico, Libby Black, Jesula Sanon, Nick Black, Zaire Sprowal, Marco Romo-Gonzalez, Philip Franke, Dustin Froula, Collin Stillman, Manfred Ambat, Hans Rinderknecht, Khanh Linh Nguyen, Zach Barfield, Dillon Ramsey, Kyle McMillen, Tanner Simpson, Raka Ghosh

Thesis Defense

Dr. Philip Franke 31 May 2022

Laboratory for Laser Energetics

University of Rochester

Rochester, New York USA

by eugene kowaluk