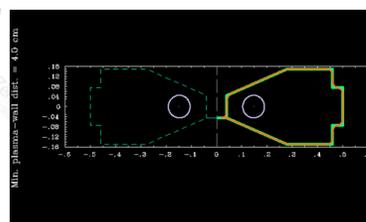
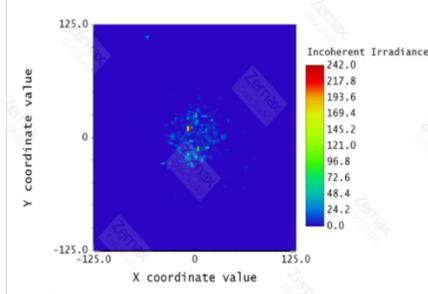
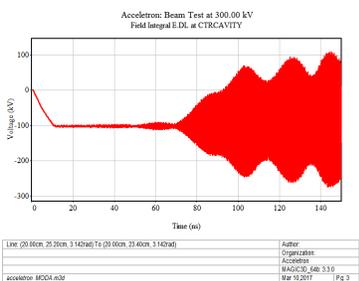
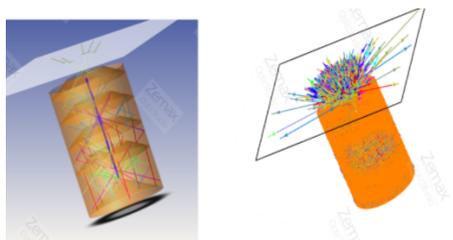
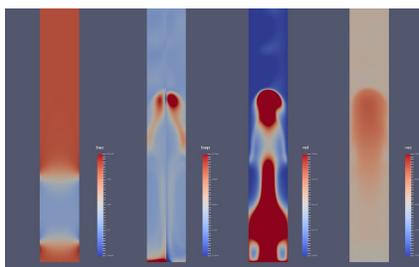
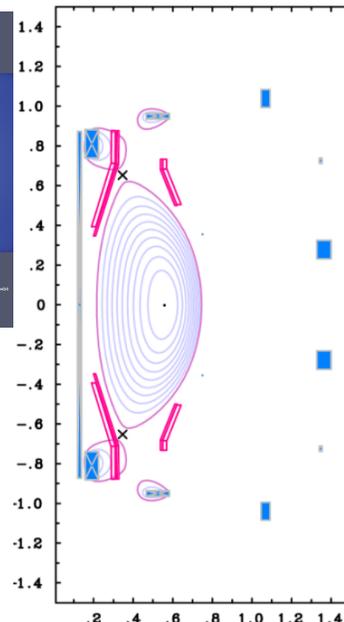
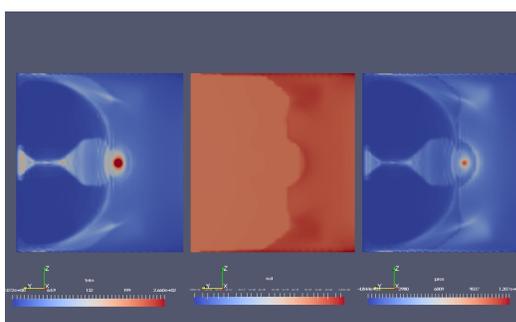
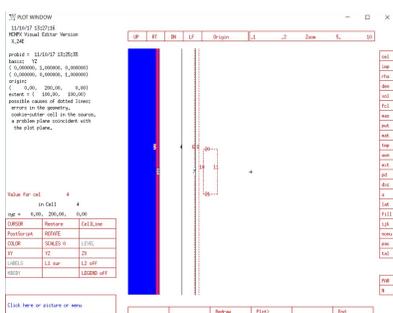




# Simulation Newsletter

MHD, fluids, PIC, neutronics, stability analysis, optics...



January 4th 2018 In the last 12 months we have simulated numerous plasma and fluid configurations, weighed in on the design of small tokamaks, performed neutronics analysis for several small fusion systems, and developed many case examples of high power microwave sources. We have also performed stability analysis, and developed capabilities for optics modeling. We have added extensively to our library of much-loved R&D codes, and have new capabilities for data visualization (including VR!).

Do you need help with MHD, equilibrium, stability, fluid, PIC, optical modeling? [Chat with our](#) scientists and we'll work with you to find a cost-effective solution.

[See More Simulation Projects on our website](#)

## Custom Simulations

A clear problem definition is the key to implementing simulations. A typical interaction commences with a conference call with our talented team: we'll help you define the problem, and in a short period define the geometry, initial conditions and boundary conditions, or any other aspect of the simulation. We strive to offer the most efficient, cost effective solutions possible to meet our customer's evolving requirements. For example, we can offer packages for code development, pre- and post-processing, and for campaign management on high performance computing resources. We also offer training, mainly in the form of our [Scientific Computing Bootcamp](#), but can offer tailored training to meet your needs.

## Customer satisfaction is our first priority

"As part of a research effort funded by ARPA-E, Woodruff Scientific was tapped to provide simulation support for our magneto-inertial fusion target formation and acceleration studies. WSI generated an excellent MHD simulation of the formation and compression of our "Taylor State" plasmas. This work is part of a recently published peer-reviewed manuscript." Michael Brown, Morris L. Clothier Professor of Physics, Swarthmore College

"From plasma physics to high power microwave devices, Woodruff Scientific not only can do simulations, but also builds hardware at a reasonable cost and in a short schedule. I highly recommend Woodruff Scientific for practical and affordable results from PIC codes such as MAGIC." Paul Finman, PhDEE, Technical Director, LCF Enterprises

"We reached out to Woodruff Scientific to perform an independent neutronics assessment of our fusion power core that had to be delivered on a very tight deadline. They pulled out all the stops and met the challenge with a high level of rigor. WSI is essential to our lean R&D methodology - the ability to leverage an external, integrated resource for specialized components and capabilities allows us to stay focused on our core competencies, stay on budget and schedule, and achieve the best results." Randall Vollberg, CEO FusionOne

[READ MORE ON OUR WEBSITE](#)



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