Publications and Presentations

- Publications
  - 2018
  - 2017
  - 2016

- Presentations
  - 2017
  - 2016
  - 2015
  - 2014
  - 2013
  - 2012

- Other Press
  - 2015

- Honors and Awards for Project Participants
  - 2015


• S. I. Krasheninnikov and R. D. Smirnov, He cluster dynamics in W in the presence of cluster induced formation of He traps, Physica Scripta T167 (2016) 014201.


• 2015


• 2014


• 2013


Presentations

• 2017


• 2016


• 2015


• X. Tang and Z. Guo. "Why ions enter the sheath entrance at supersonic speed?" 57th Annual Meeting of the American Physical Society Division of Plasma Physics, Savannah, Georgia, November 18, 2015.


• B.D. Wirth on behalf of SciDAC-PSI team, “Modeling Plasma Surface Interactions Involving He on Tungsten”, Southwestern Institute of Physics Plasma – Materials Interactions Workshop, Chengdu, China, 20 April 2015.


- 2014


• K.D. Hammond and B.D. Wirth, “Large-Scale Simulation of Plasma-Facing Materials for Tokamaks and Linear Devices,” AIChe annual meeting, Atlanta, Georgia, November 16, 2014.


- 2012
  - Karl D. Hammond, Faiza Sefta, and Brian D. Wirth, Plasma-Induced Evolution of Surfaces, AIChE annual meeting, October 2012.
  - Brian D. Wirth, F. Sefta, K. Hammond, N. Juslin, and D. Xu, Plasma Surface Interactions (PSI): Bridging from the Surface to the Micron Frontier through Leadership Class Computing Plasma Surface Interactions (PSI): Bridging from the Surface to the Micron Frontier through Leadership Class Computing, invited talk, Scientific Discovery through Advanced Computing (SciDAC-3) Principal Investigator Meeting, Rockville, Maryland, USA, September 2012.
  - David E. Bernholdt and Jay Jay Billings, Plasma Surface Interactions (PSI): Bridging from the Surface to the Micron Frontier through Leadership Class Computing, poster, Scientific Discovery through Advanced Computing (SciDAC-3) Principal Investigator Meeting, Rockville, Maryland, USA, September 2012.

**Other Press**
- 2015
  - Fusion Researchers Use Titan to Burst Helium Bubbles (OLCF Science Highlight)
    - [https://www.olcf.ornl.gov/2015/05/05/fusion-researchers-use-titan-to-burst-helium-bubbles/](https://www.olcf.ornl.gov/2015/05/05/fusion-researchers-use-titan-to-burst-helium-bubbles/)
  - Double, Double Toil and Trouble: Tungsten Burns and Helium Bubbles (DOE Office of Science Discovery & Innovation Science Highlight)
  - Understanding Helium-Hydrogen Plasma Mediated Tungsten Surface Response to Predict Fusion Plasma Facing Component (ALCF highlight)

**Honors and Awards for Project Participants**
- 2015
  - Davide Curreli Chosen as a 2015-2016 NCSA Faculty Fellow [NCSA] [UIUC NPRE]
  - Brian Wirth receives DOE 2014 Ernest Orlando Lawrence Award [DOE] [UT]
  - Barry Smith named an Argonne Distinguished Fellow [ANL]