

Abstract Submitted
for the DPP20 Meeting of
The American Physical Society

Breadth and Unification of the Field of Plasma Science Town Hall

MICHAEL BROWN, DPP 2020 Chair Elect/Swarthmore College — The vision for this event is to display the breadth of the field of plasma science, and perhaps a vision for the unification of the field. It will be an optimistic, forward-thinking view of plasma science. The target audience will be our early career scientists, graduate, and undergraduate students. The community should provide questions for our panelists. The questions you should consider include: What constitutes plasma science and technology? Where is plasma science studied, and who funds it? What are the most profound questions facing plasma science today? What are the important tools and technologies that cut across the sub-fields of plasma science?

The focus of the discussion will be plasma science. So panelists will think about what role plasma science plays in fundamental physics, fusion, space physics, astrophysics, national defense. What careers might young scientists pursue in the area they represent? The format for the Town Hall be a QA. I'll moderate with some initial set up questions, then field questions from the community. I would like to gather some of these ahead of the event. Since this will be around dinner time, all participants should get a drink and something to eat while attending remotely from home.

PARTICIPANTS:

Funding Agency Representatives

Slava Lukin (NSF/Physics)

Jim van Dam (DOE/Fusion Energy Sciences)

Njema Frazier (DOE/NNSA)

Nicola Fox (NASA/ Heliophysics)

Carrie Black (NSF/Astronomical Sciences)

Ali Sayir (AFOSR)

Michael Brown

DPP 2020 Chair Elect/Swarthmore College

Date submitted: 02 Nov 2020

Electronic form version 1.4

Plasma Science Community Leaders

Gary Zank (UAH)

Troy Carter (UCLA)

Scott Baalrud (Iowa)

Carolyn Kuranz (Michigan)

John Sarff (Wisconsin)

Pierre Gourdain (Rochester)