

# PDL First Choice

1. Ken Hara, Assistant Professor, Stanford University
2. Philip Varghese, Professor and Ernest H. Cockrell Centennial Chair in Engineering, University of Texas at Austin
3. Ravichandra Jagannath, Systems Engineer, KLA (company specializing in tools for inspection and metrology for semiconductor manufacturing)

# Ken Hara

- Assistant Professor at Stanford University (moved to Stanford after 3 years at same rank at Texas A&M) – Plasma Dynamics Modeling Laboratory
- Research: computational and theoretical plasma physics for electric propulsion applications and for other low-temperature, partially-ionized plasma systems
- AIAA Associate Fellow, member of EP TC for past 7 years
- From application: “While I am interested in electric propulsion, my work also focuses on computational and theoretical plasma physics for other low-temperature, partially-ionized plasma systems. I believe that I can contribute to the Plasmadynamics and Laser Technical Committee.”
- PROS: Research relevant to the TC; would be a good liaison between EP and PDL TCs
- CONS: Already active on one TC, would he have the time/bandwidth to contribute

# Philip Varghese

- Endowed Professor, former department chair, University of Texas at Austin
- Research: understanding the basic molecular processes occurring in high speed, high temperature, and non-equilibrium flows for applications in hypersonic and rarefied flows, plasmas, and combustion; laser diagnostics
- Was a long-time member of the AMT TC (1994-2010); AIAA Associate Fellow
- From application: “I feel it is time to contribute more to AIAA and wish to contribute to in another area. The scope of the Plasmadynamics and Lasers TC align well with my research interests.”
- PROS: Expertise in hypersonics and non-equilibrium flows would be good addition to the TC; seems motivated to contribute
- CONS: None

# Ravichandra Jagannath

EUV light source uses laser-produced (tin) plasma

- Systems Engineer at KLA, involved with development of Extreme Ultraviolet (EUV) light source at 13.5 nm for optical inspection of semiconductor reticles.
  - Also: spectroscopic and confocal sensor imaging of laser-produced plasmas
- PhD from Purdue, 2019 – worked with Sally Bane on plasma-assisted ignition and plasma spectroscopy
- From application: “I would like to use my expertise in the area of plasma discharges, plasma spectroscopy and laser produced plasma to help the committee in chairing sessions, reviewing papers and community outreach.”
- PROS: Relevant background/expertise; industry underrepresented on the TC
- CONS: Much of his work may not be related to plasmas or lasers

# Recommendation

- Applications reviewed and scored (1-5, 5 being the highest) by Sally Bane, Albina Tropina, and Trevor Moeller
- Average Scores:
  - Ken Hara: 4.33
  - Philip Varghese: 4.67
  - Ravichandra Jagannath: 4
- Recommendation: invite all 3 applicants to join the TC

Input from the TC?