

**Space Propulsion: Performance, Life**

**Experimental Plasma Physics**

- Selective acceleration of charged particles via  $E$  and  $B$  fields

**Generation of Plasmas**

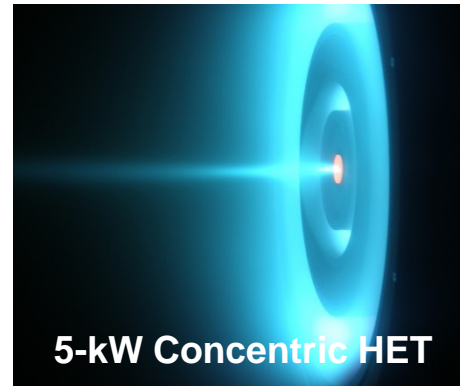
- Energy input: DC/RF
- Working fluid and pressure

**Plasma-Wall Interactions**

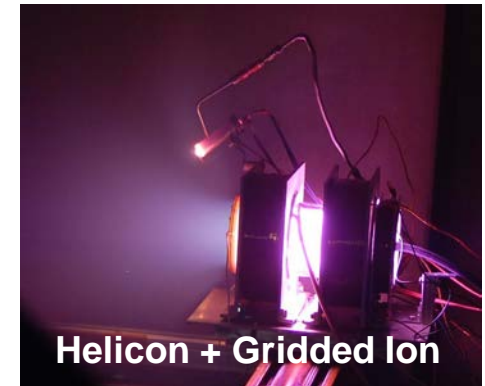
- Impact of charge BC's and material properties on transport rates
- Surface modification/erosion via charged-particle interactions

**Diagnostics & Facilities**

- Suite of plasma diagnostics
- Largest University-based vacuum facilities in U.S.



5-kW Concentric HET



Helicon + Gridded Ion

**Materials Processing, Electron Emission**

