



Princeton Electric Propulsion Laboratory Roll of Students

Name	Degree	Undergrad Institution	Thesis Topic	Present Location	Name	Degree	Undergrad Institution	Thesis Topic	Present Location
1) Corr, J.M.	*65 M.S.	Holy Cross	Double probe studies of an 8" pinch discharge	Newtown Square, PA	32) Villani, D.D.	*83 Ph.D.	California Institute of Tech.	Power deposition in MPD discharges	Boeing Long Beach, CA
2) Rowell, G.A.	*65 M.S.	USAF Academy	Plasma pinch cylindrical shock model	(deceased)	33) Berg, J.	*84 M.S.	Princeton	Direct measurement of MPD arcjet thrust	Lubbock, TX
3) Wright, E.S.	*65 M.S.	USAF Institute of Technology	Rogowski coil for measuring current in a plasma pinch		34) Marks, L.M.	*84 M.S.	Brown	Erosion measurement technique in MPD thrusters	Medical Col. of VA Richmond, VA
4) Black, N.A.	*66 Ph.D.	California Institute of Tech.	High-current pinch discharge dynamics	Collegeville, PA	35) Woolf M.J.	*84 M.S.	Princeton	High performance MPD thruster	New York, NY
5) Burton, R.L.	*66 Ph.D.	Princeton	Pinch discharge current sheet structure	U. of Illinois Champaign, IL	36) Merfeld, D.	*85 M.S.	U. of Wisconsin	MPD thruster performance: propellant dist./species effects	MIT Lincoln, MA
6) Carrelli, C.	*66 Ph.D.	U. of Naples	Voltage signatures from pulsed plasma discharges	Torino, Italy	37) Barnett, J.	*85 Ph.D.	Rice	MPD thruster operation w/ stepped current input	Institute Def. Analysis Arlington, VA
7) Ellis, W.R.	*67 Ph.D.	Clemson	Current sheet structure in a cylindrical Z-pinch	New York, NY	38) Gilland, J.H.	*88 M.S.	Vanderbilt	Effect of geometrical scale on MPD thruster behavior	NASA Glenn Research Center, OH
8) Eckbreth, A.C.	*68 Ph.D.	Lehigh	Pulsed plasma current patterns and gas flow stabilization	Glastonbury, CT	39) Lue, K.M.	*89 M.S.	Massachusetts Inst. of Tech	Fundamental studies of electrostatic atomization	Singapore
9) York, T.M.	*68 Ph.D.	Penn State	Pressure distribution in a propagating current sheet	The Ohio State U. Columbus, OH	40) Myers, R.	*89 Ph.D.	U. of Michigan	Energy deposition in Low power coaxial plasma thrusters	Aerojet Redmond, WA
10) Wilbur, P.J.	*68 Ph.D.	U. of Utah	Energy transfer from a pulse network to a current sheet	Colorado St. U. Fort Collins, CO	41) Chamberlain, F.R.	*89 M.S.	U. of California, Berkley	Electropositive surface layer MPD thruster cathodes	
11) Clark, K.E.	*69 Ph.D.	U. of Michigan	Quasi-steady plasma acceleration	Pennington, NJ	42) Hoskins, W.A.	*90 M.S.	Yale	Asymmetric discharge patterns in the MPD thruster	Aerojet Redmond, WA
12) Turchi, P.J.	*70 Ph.D.	Princeton	Cathode region of a quasi-steady MPD arcjet	AFRL Kirkland, NM	43) Choueiri, E.Y.	*91 Ph.D.	Syracuse	Electron-ion instabilities in an electromagnetic plasma accel.	Princeton U. Princeton NJ
13) Oberth, R.C.	*70 Ph.D.	Manitoba	Anode phenomenon in high-current discharges	Toronto, Ontario	44) Tilley, D.L.	*91 M.S.	U. of Washington	Microinstabilities in a kW-level self-field MPD thruster	
14) DiCapua, M.S.	*71 Ph.D.	Cornell	Energy deposition in parallel plate plasma accelerators	San Francisco, CA	45) Gallimore, A.D.	*92 Ph.D.	Rennselear Poly. Institute	Anode power deposition in coaxial MPD thrusters	U. of Michigan Ann Arbor, MI
15) Cory, J.S.	*71 Ph.D.	Kansas	Mass, momentum and energy flow from an MPD accelerator	(deceased)	46) Randolph, T.M.	*94 M.S.	U. of Southern California	Interelectrode MPD region measured ionization levels	Loral San Carlos, CA
16) White, F.W.	*71 M.S.	Worcester Poly Institute	Rotary disk propellant injection for quasi-steady MPD thrusters	Horseheads, NY	47) Caldo, G.	*94 M.S.	Princeton	MPD thruster modeling with anomalous transport	Rome, Italy
17) Parmentier, N.	*71 M.S.	Catholic U. (Louvain, Belg.)	Quasi-steady MPD arc with hollow cathode	Alcatel Bell Space NV, Belgium	48) Diamant, K.D.	*96 Ph.D.	Cornell	Anode fall in high power pulsed MPD thrusters	The Aerospace Corp. El Segundo, CA
18) Bruckner, A.P.	*72 Ph.D.	McGill	Spectroscopy in the exhaust plume of a quasi-steady MPD	U. of Washington Seattle, WA	49) Polk, J.E.	*96 Ph.D.	Georgia Inst. of Technology	Mechanisms of cathode erosion in plasma thrusters	NASA Jet Prop. Lab Pasadena, CA
19) Van Woerkom, P.	*72 Ph.D.	Delft U. of Technology	Perturbed aerospace vehicle motion	Delft U. of Tech. The Netherlands	50) Cubbin, E.A.	*98 M.S.	U. of Illinois	Thrust measurements using a laser interferometer proximeter	New York, NY
20) Fradkin, D.B.	*73 Ph.D.	U. of Maryland	Acceleration and performance of an applied field arcjet	LANL Los Alamos, NM	51) Fillmore, J.S.	*98 M.S.	U. of Notre Dame	Experimental study of lithium dispenser cathodes in MPDs	Redondo Beach, CA
21) Boyle, M.J.	*74 Ph.D.	Princeton	Acceleration processes in quasi-steady MPD discharges	Alamo, CA	52) Kennedy, R.V.	*98 M.S.	U. of Glasgow	Theory of arc hollow cathode	Oxford, UK
22) Saber, A.J.	*74 Ph.D.	U. of Toronto	Anode power deposition in a quasi-steady MPD	(deceased)	53) Ziemer, J.K.	*01 Ph.D.	U. of Michigan	Performance scaling in gas-fed pulsed plasma thrusters	NASA Jet Prop. Lab Pasadena, CA
23) Dutt, G.S.	*76 Ph.D.	London U.	Lasing in extended two-dimensional MPD arcs		54) Markusic, T.E.	*02 Ph.D.	Ohio State U.	Current sheet canting in pulsed electromagnetic accelerators	NASA Marshall SFC Huntsville, AL
24) Krishnan, M.	*76 Ph.D.	London U.	Processes in hollow cathodes in high-current discharges	Alameda Appl. Sci. San Leandro, CA	55) Chiravalle, V.P.	*96,*03 Ph.D.	Princeton	Num & exp study of two-stage μ -wave electrotherm. thruster	LANL Los Alamos, NM
25) Smith, B.W.	*78 Ph.D.		3-part study of anode orif. dia. effects on Q-S MPD discharges	Aerojet Redmond, WA	56) Sankaran, K.	*00 M.S. Current	Illinois Institute of Technology	Numerical modeling of MPD thrusters	Princeton, NJ
26) Mead, F.B.	*78 M.S.	U. of Michigan	Scaling of MPD thrusters	AFRL Edwards AFB, CA	57) Kodys, A.D.	Current	Worcester Poly Institute		Princeton, NJ
27) Rudolph, K.	*81 Ph.D.	U. of Colorado	Onset phenomena in self-field MPD arcjets	Lockheed-Martin Littleton, CO	58) Polzin, K.A.	Current	Ohio State U.		Princeton, NJ
28) Rowe, R.	*81 M.S.	USAF Academy	Ablation of an MPD thruster		59) Spektor, R.	Current	U. of California, Berkley		Princeton, NJ
29) Ho, D.	*81 M.S.	U. of Michigan	Erosion studies in an MPD thruster		60) Berkery, J.W.	Current	Cornell		Princeton, NJ
30) King, D.Q.	*82 Ph.D.	Rutgers	MPD channel flow for design of coaxial MPD thrusters	Aerojet Redmond, WA	61) Cassidy, L.D.	Current	U. of Michigan		Princeton, NJ
31) Kaplan, D.	*82 M.S.	U. of Michigan	Scaling of MPD discharges	League City, TX	62) Cooley, J.E.	Current	California Institute of Tech.		Princeton, NJ

Faculty and Staff

Jahn, R.G.	*51, *55 Ph.D. (Physics)	Princeton	Lab Director and Founder, Dean Emeritus	Princeton U. Princeton, NJ	VonJaskowsky, W.F.			Lab Manager	(deceased)
Clark, K.E.	*69 Ph.D. (EPPDyL)	U. of Michigan	Lab Manager	Pennington, NJ	Miller, G.E.	*65 M.S. (MAE)		Technical Staff	Hightstown, NJ
Kelly, A.J.	63 Ph.D. (Caltech)		Lab Manager	Princeton, NJ	Tregurtha, D.			Technical Staff	Pennington, NJ
Choueiri, E.Y.	*91 Ph.D. (EPPDyL)	Syracuse	Lab Director (current)		Casini, A.			Technical Staff	(deceased)
					Frobose, T.			Technical Staff	
					Sorenson, R.			Technical Staff (current)	Princeton U.