Biographical Outline
Adam Frank

Department of Physics & Astronomy
University of Rochester
Rochester, NY 14627-0171

ACADEMIC HISTORY

1995-96	Hubble Fellow
1992-94	Postdoctoral Research Associate. University of Minnesota
1992	PhD Physics, University of Washington, Seattle
1990	MS Physics, University of Washington, Seattle
1984	BA Physics, cum laude, University of Colorado, Boulder

POSITIONS HELD

2004 - Professor, University of Rochester
2000 - Associate Professor, University of Rochester
1996 - Assistant Professor, University of Rochester
1996 - Scientist, Laboratory for Laser Energetics, University of Rochester

AWARDS

2009	Best American Science and Nature Writing
1999	AAS SPD Popular Writing Award for a Scientist
1997-2002	NSF CAREER Grant

SELECTED ACTIVITIES

2006-11 SOC IAU Working Group on Planetary Nebulae
2009 Co-Chair, Rochester Workshop on Planetary Nebulae
2008-11 AAS Working Group Laboratory Astrophysics
2003-04 Chair SOC 5th Conference on High Energy Density Laboratory Astrophysics.

Recent Products

AstroBEAR AMR MHD Multi-physics code: Public website/Wiki
http://bearclaw.pas.rochester.edu/trac/astrobear

Huarte-Espinosa, M., Carroll-Nellenback, J., Nordhaus, J., Frank, A., Blackman, E. G. 2013. *The formation and evolution of wind-capture discs in binary systems*. Monthly Notices of the Royal Astronomical Society 433, 295-306.

Huarte-Espinosa, M., Frank, A., Blackman, E. G., Ciardi, A., Hartigan, P., Lebedev, S. V., Chittenden, J. P. 2012. *On the Structure and Stability of Magnetic Tower Jets*. The Astrophysical Journal 757, 66.

Frank, A., et al 2014, *Jets and Outflows From Star to Cloud Observations Confront Theory*, review chapter to appear in Protostars and Planets VI,

Carroll-Nellenback, J.J., Shroyer, B., Frank, A., Ding, C. 2013. *Efficient parallelization for AMR MHD multiphysics calculations; implementation in AstroBEAR*. Journal of Computational Physics 236, 461-476.

Balick, B., Huarte-Espinosa, M., Frank, A., Gomez, T., Alcolea, J., Corradi, R. L. M., Vinkovic, D. 2013. *Outflows from Evolved Stars: The Rapidly Changing Fingers of CRL 618*. The Astrophysical Journal 772, 20.

Suzuki-Vidal, F., and Frank A., et al 2012. *Laboratory astrophysics experiments studying hydrodynamic and magnetically-driven plasma jets*. Journal of Physics Conference Series 370, 012002.

Lebedev, S. V., and Frank A., et al 2012. *Experimental studies of supersonic radiatively cooled plasma jets.* EAS Publications Series 58, 133-136.

Li, S., Frank, A., Blackman, E. 2012. *Consequences of Magnetic Field Structure for Heat Transport in Magnetohydrodynamics*. The Astrophysical Journal 748, 24.

Carroll, J. J., Frank, A., Blackman, E. G. 2010. *Isotropically Driven Versus Outflow Driven Turbulence: Observational Consequences for Molecular Clouds*. The Astrophysical Journal 722, 145-157.

Collaborators: E. Blackman (UR), Jack Thomas (UR), Hugh van Horn (UR), Jon Bjorkman (U Toledo), Chris Davidison (U Minn), Lee Hartmann (CfA), Mario Livio (StSci), A. Noriga-Crespo (IPAC), Kenny Wood (CfA),

PhD Advisor: Bruce Balick (U Wash),
Post-doc: Tom Jones (U Minn)
PhD Students: Guy Delamarter, Tom Gardiner, Alexei Poludnenko, Andy Cunningham, Kris Yirak.
Post-Docs Advised: Peggy Varniere, Tim Dennis, Martin Huarte-Espinosa

Synergistic Activities
In addition to scientific research I am also attempting to communicate the excitement of science to a wider audience. I am co-founder of National Pubic Radio's *13.7 Cosmos and Culture Blog* and regular on-air science commentator for NPR's *All Things Considered*. In addition I contribute semi-regularly to the New York Times. Below are three examples of recent work.

Welcome to the Age of Denial, NY Times, 8/21/2013
Cracking the Quantum Safe, NY Times, 10/13/2012
Alone in the Void, NY Times, 7/24/2012