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EMPLOYMENT

Postdoctoral Research Associate to Richard Greenberg, Lunar and Planetary Laboratory, U. of Arizona, 12/2004 - present

EDUCATION

Ph.D. Astronomy, University of Washington, 2004
Dissertation: Dynamics of the Initial Planetesimal Disk
Adviser: Thomas R. Quinn
M.S. Astronomy, University of Washington, 1999
B.S. Astronomy, University of Arizona, 1998
B.S. Physics, University of Arizona, 1998

AWARDS AND HONORS

NASA GSRP Fellowship 2002-2004.
Outstanding Senior Award, Astronomy Dept., U. of Arizona 1998

SELECTED PUBLICATIONS

Jackson, B., **Barnes, R.**, & Greenberg, R. 2008. Tidal Heating of Terrestrial Extra-Solar Planets and Implications for their Habitability. *Icarus*, submitted.

Barnes, R., Quinn, T.R., Lissauer, J.J., & Richardson, D.C. 2008. N-Body Simulations of Growth from 1 km Planetesimals at 0.4 AU. *Icarus*, submitted.

Barnes, R., Gozdziewski, K. & Raymond, S.N. 2008. The Successful Prediction of the Extrasolar Planet HD 74156 d. *Astrophys. J. Lett.*, 680, L57-L60.

Jackson, B., Greenberg, R. & **Barnes, R.** 2008. Tidal Heating of Extrasolar Planets. *Astrophys. J.*, in press.

Barnes, R. & Greenberg, R. 2008. Extrasolar Planet Interactions. In: Proc. to IAU Symposium # 249, *EXOPLANETS: Detection, Formation and Evolution*, 469-478.

Jackson, B., Greenberg, R. & **Barnes, R.** 2008. Tidal Evolution of Close-in Extra-Solar Planets. In: Proc. to IAU Symposium # 249, *EXOPLANETS: Detection, Formation and Evolution*, 187-196.

Jackson, B., Greenberg, R. & **Barnes, R.** 2008. Tidal Evolution of Close-in Extrasolar Planets. *Astrophys. J.*, 678, 1396-1406.

Greenberg, R. & **Barnes, R.** 2008. Tidal Evolution of Dysnomia, Satellite of the Dwarf Planet Eris. *Icarus*, 194, 847-849.

Raymond, S.N., **Barnes, R.**, & Mandell, A.M. 2008. Observable Consequences of Planet Formation Models in Systems with Close-in Terrestrial Planets. *Mon. Not. Roy. Astron. Soc.*, 384, 663-674.

Barnes, R., Raymond, S.N., Jackson, B. & Greenberg, R. 2008. Tides and the Evolution of Planetary Habitability. *Astrobiology*, accepted.

Barnes, R. 2008. "Dynamics of Multiple Planet Systems." In *EXOPLANETS: Detection, Formation, Properties, Habitability*, ed. J.W. Mason, Praxis Publishing Ltd., Chichester, UK, 177-208.

Barnes, R., & Greenberg, R. 2007. Stability Limits in Resonant Planetary Systems. *Astrophys. J. Lett.* 665, L67-L71.

Barnes, R., & Greenberg, R. 2007. Apsidal Behavior among Planetary Orbits: Testing the Planet-Planet Scattering Model. *Astrophys. J. Lett.* 659, L53-L56.

Barnes, R. & Greenberg, R. 2006. Behavior of Apsidal Orientations in Planetary Systems. *Astrophys. J. Lett.* 652, L53-L56.

Barnes, R., & Greenberg, R. 2006. Stability Limits in Extrasolar Planetary Systems. *Astrophys. J. Lett.* 652, L53-L56.

Barnes, R., & Greenberg, R. 2006. Extrasolar Planetary Systems Near a Secular Separatrix. *Astrophys. J.* 638, 478-487.

Barnes, R., & Raymond, S.N. 2004. Predicting New Planets in Known Extrasolar Planetary Systems I: Test Particle Simulations. *Astrophys. J.* 617, 569-574.

Barnes, R., & Quinn, T.R. 2004. The (In)stability of Planetary Systems. *Astrophys. J.* 611, 494-516.