

Articles and Resource Guides on the Web

by Andrew Fraknoi

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1. Articles

An Ancient Universe (for teachers; on how we know the age of the universe is much longer than creationists claim; with B. Partridge, G. Greenstein, and J. Percy):

<http://education.aas.org/publications/ancientuniverse.html>

(an earlier version, with classroom activities can be found at:

<http://www.astrosociety.org/education/publications/tnl/56/index.html>)

Astronomy Education in U.S. (a general review of the many arenas where it takes place):

www.astrosociety.org/education/resources/useduc.html

Astronomy Textbooks, Used Book Chains, and Big Macs: A Perspective (in *Astronomy Education Review*): <http://aer.noao.edu/cgi-bin/article.pl?id=152>

Dealing with Astrology, UFOs, and Faces on Other Worlds: A Guide to Addressing Astronomical Pseudoscience in the Classroom (in *Astronomy Education Review*):

<http://aer.noao.edu/cgi-bin/article.pl?id=70>

Enrollments in Astronomy 101 Courses: An Update (in *Astronomy Education Review*):

<http://aer.noao.edu/cgi-bin/article.pl?id=12>

How Fast Are You Moving When You Are Sitting Still? (the motions of the Earth for teachers):

<http://www.astrosociety.org/education/publications/tnl/71/howfast.html>

Insights from a Survey of Astronomy Instructors in Community and Other Teaching-Oriented Colleges in the United States (in *Astronomy Education Review*):

<http://aer.noao.edu/cgi-bin/article.pl?id=89>

Light as a Cosmic Time Machine (brief introduction for the general public):

<http://www.pbs.org/seeinginthedark/astronomy-topics/light-as-a-cosmic-time-machine.html>

Mars (a brief introduction for the general public):

<http://www.pbs.org/seeinginthedark/astronomy-topics/mars.html>

So You Want to Start a Project ASTRO Site (Q & A on program where astronomers adopt a classroom): www.astrosociety.org/education/astro/about/astrofaq.html

Steps and Missteps Toward an Emerging Profession (Education and Outreach in Astronomy):

http://www.astrosociety.org/pubs/mercury/34_05/epo.pdf

The Lives of the Stars (a brief introduction for the general public):

<http://www.pbs.org/seeinginthedark/astronomy-topics/lives-of-stars.html>

The Music of the Spheres in Education: Using Astronomically Inspired Music (in *Astronomy Education Review*): <http://aer.noao.edu/cgi-bin/article.pl?id=193>

Teaching Astronomy with Science Fiction (in *Astronomy Education Review*):

<http://aer.noao.edu/cgi-bin/article.pl?id=33>

Teaching What a Planet Is: A Roundtable on the Educational Implications of the New Definition of a Planet (in *Astronomy Educat. Review*): <http://aer.noao.edu/cgi-bin/article.pl?id=207>

What's a Planet and Why is Pluto not in the Planet Club Anymore (brief introduction):

<http://www.pbs.org/seeinginthedark/astronomy-topics/planets-and-pluto.html>

Your Astrology Defense Kit (a skeptical article to help educators respond to astrological claims):

www.astrosociety.org/education/astro/act3/astrology3.html#defense

2. Educational Activities

A Flag for Your Planet (Family Activity):

<http://www.astrosociety.org/education/publications/tnl/66/flag3.html>

Finding Your Way to Mars, Pennsylvania: An Astronomy and Geography Activity:

http://www.pbs.org/seeinginthedark/pdfs/geography_astronomy_activity.pdf

Picture an Astronomer Activity: www.astrosociety.org/education/astro/act1/astronomer.html

Sky Heroes: Reinventing the Constellations:

http://www-tc.pbs.org/seeinginthedark/pdfs/starry_lives_starry_skies.pdf

Starry Lives, Starry Skies: Observing Different Stages in Stellar Evolution:

http://www-tc.pbs.org/seeinginthedark/pdfs/starry_lives_starry_skies.pdf

Surfing the Solar System Web-based Quiz Game: www.astrosociety.org/education/surf.html

Testing Astrology Activities: <http://www.astrosociety.org/education/astro/act3/astrology.html>

3. Resource Guides

Astronomical Pseudo-science: A Skeptic's Resource List (astrology, UFO's, creationist cosmology, etc.): www.astrosociety.org/education/resources/pseudobib.html

Astronomy and the Arts (poetry, music, and art):

<http://www.pbs.org/seeinginthedark/resources-links/astronomy-and-the-arts.html>

Astronomy Classroom Activities on the Web: An Annotated Topical Guide (for K-12 teachers):

www.astrosociety.org/education/activities/astroacts.html

Astronomy and Poetry: <http://aer.noao.edu/cgi-bin/article.pl?id=10>

Environmental Issues & Astronomy (light pollution, observatory sites, frequency spectrum allocation, etc.): www.astrosociety.org/education/resources/environment.html

Exchanging Messages with Extraterrestrial Civilizations:

www.astrosociety.org/education/family/resources/seti.html

The Astronomy of Many Cultures: <http://www.astrosociety.org/education/resources/multi.html>

Science Fiction with Good Astronomy (a topical listing and brief review):

www.astrosociety.org/education/resources/scifi.html

Websites on College Astronomy Teaching (teaching strategies, resources, labs, demos, etc.):

www.astrosociety.org/education/resources/educsites.html

Women in Astronomy Bibliography (general references and specific readings for 36 women astronomers): www.astrosociety.org/education/resources/womenast_bib.html