

# A Brief History Of Publishing Papers On Astronomy Education Research

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## ABSTRACT

*While some research had been done on K-12 and planetarium astronomy teaching from the 1930's to the 1980's, the growth of research on college physics education offered astronomy education researchers a model for examining techniques for teaching introductory college astronomy survey "Astronomy 101" courses as well. This early research was published in widely scattered journals and rarely reached the practitioners of astronomy education. The need to inform and unite the community of astronomy educators led to the birth of the journal "Astronomy Education Review," whose history and sudden death is analyzed. This paper provides a short history of publishing astronomy education research results and provides context for the advent of the new "Journal of Astronomy & Earth Sciences Education" (JAESE).*

**Keywords:** Astronomy Education; Astronomy Education Research; Astronomy Education Review; Publishing; History Of Astronomy

## EARLY HISTORY

*A*lthough astronomy education papers appeared as early as the 1930's, the modern era of astronomy education research essentially began with projects that probed learning in both the K-12 classroom and the planetarium in the 1960's and 1970's (viz., Wall, 1973 and Bishop, 1977). During the 1980s and 1990s, physicists began using their research training to understand teaching and learning in physics (viz., Reichner, 2009.) This provided a model and pathway for interested astronomers to start studying teaching and learning in the introductory astronomy survey course for college non-science majors, often known as ASTRO 101. Papers describing this early work were mostly published in journals reporting on science education research in general, rather than astronomy specifically. Bishop (2002), Bailey and Slater (2004), Bailey and Slater (2005), and Lelliott and Rollnick (2010), among others, provide extensive overviews of astronomy education work published during this early period.

The problem was that most of the practitioners of astronomy education were trained as scientists and were inclined to read astronomy journals, rather than the science education journals in which this astronomy education research was being published. Furthermore, few of the academic readers of science education journals were engaged in much astronomy teaching. This meant that any ideas or concerns that emerged from the research being done into the efficacy of astronomy teaching techniques rarely reached those astronomy professors who would most have benefited from reading it.

Journals such as *The Astrophysical Journal* and *Astronomical Journal* connected research astronomers, while magazines such as *Sky & Telescope* and *Astronomy* connected serious amateur astronomers. However, there was no publication that tied together astronomy educators into a cohesive community, with common standards, common vocabulary, and a common literature.

For a brief period in the mid-1980's, *Astronomy* magazine published a one-color supplement called "Astronomy Educator," but it was not a financial success and was soon discontinued. The Astronomical Society of the Pacific publishes a newsletter on teaching astronomy in grades 3 - 12, called *The Universe in the Classroom*, begun in 1984 with the present author as its founding editor, and now available on the web at:

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