

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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Teaching and Learning Astronomy Jay Pasachoff, John Percy, 2005-12-15 Astronomy is taught in schools worldwide but few schoolteachers have any background in astronomy or astronomy teaching and available resources may be insufficient or non-existent. This volume highlights the many places for astronomy in the curriculum, relevant education research, and best practice strategies for pre-service and in-service teacher education, the use of the Internet and other technologies, and the role that planetariums, observatories, science centres, and organisations of professional and amateur astronomers can play. The special needs of developing countries and other under-resourced areas are also highlighted. The book concludes by addressing how the teaching and learning of astronomy can be improved worldwide. This valuable overview is based on papers and posters presented by experts at a Special Session of the International Astronomical Union.

Sustainable Space Tourism Annette Toivonen, 2020-11-11 This book explores the relationship between space tourism and the discourse in sustainability and futures research. It offers comprehensive information on the current understanding of the space tourism industry and assesses the possible impacts of space tourism on the environment, economics, legislation, and society. The volume aims to encourage more dialogue and critical examinations of aspects of space tourism related to future sustainability. From data gathered from empirical research, it provides a vision for the future of sustainable space tourism. It will be of interest to students and researchers in tourism, sustainability, and futures studies, as well as individual space tourists, hopeful space tourism industry operators, and tourism policy regulators.

Crossing Borders Michelle Ann Miller, Michael Douglass, Matthias Garschagen, 2017-12-06 This multidisciplinary book examines the diverse ways in which environmental disasters with compounding impacts are being governed as they traverse sovereign territories across rapidly urbanising societies in Asia and the Pacific. Combining theoretical advances with contextually rich studies, the book examines efforts to tackle the complexities of cross-border environmental governance. In an urban age in which disasters are not easily contained within neatly delineated jurisdictions, both in terms of their interconnected causalities and their cascading effects, governance structures and mechanisms are faced with major challenges related to cooperation, collaboration, and information sharing. This book helps bridge the gap between theory and practice by offering fresh insights and contrasting explanations for variations in transboundary disaster governance regimes among urbanising populations in the Asia Pacific.

Libraries Supporting Online Learning Christina D. Mune, 2020-10-07 Using practical examples from librarians in the field, this book lays out current issues in online learning and teaches librarians how to adapt a variety of library services, including instruction, reference, and collection development, to online education. Recent studies highlighting the challenges faced by online learners show that skills librarians are uniquely qualified to teach, such as information and digital literacy and source evaluation, can improve academic performance in online courses and enhance the online learning experience. Just as embedded librarianship was developed to answer the needs of online courses when they emerged in the early 2000s, online learning librarianship

Christina Mune now teaches online librarianship as a set of realistic strategies for serving a variety of online education models Each chapter of *Libraries Supporting Online Learning* addresses a different strategy for supporting online students and or faculty with all strategies derived from real world practices Librarians will find information on best practices for creating digital literacy tutorials and dynamic content providing patrons with open access and open educational resources helping patrons to avoid copyright issues promoting peer to peer learning and resource sharing posting to social media and developing scalable reference services The tools and practical examples in this book will be useful for all educators interested in increasing the efficacy of online learning

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Angeline G. Burrell,John Coxon,K.-Michael Aye,Leslie Lamarche,Sophie A Murray,2023-07-20 [Applied Computer Science for GGOS Observatories](#) Alexander N.J. Neidhardt,2017-08-08 This book combines elementary theory from computer science with real world challenges in global geodetic observation based on examples from the Geodetic Observatory Wettzell Germany It starts with a step by step introduction to developing stable and safe scientific software to run successful software projects The use of software toolboxes is another essential aspect that leads to the application of generative programming An example is a generative network middleware that simplifies communication One of the book s main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques The complete software design of a satellite laser ranging system is taken as an example Such automated systems are then combined for global interaction using secure communication tunnels for remote access The network of radio telescopes is used as a reference Combined observatories form coordinated multi agent systems and offer solutions for operational aspects of the Global Geodetic Observing System GGOS with regard to Industry 4 0

[Analytics and Tech Mining for Engineering Managers](#) Scott W. Cunningham,Jan H. Kwakkel,2016-06-20 This book offers practical tools in Python to students of innovation as well as competitive intelligence professionals to track new developments in science technology and innovation The book will appeal to both tech mining and data science audiences For tech mining audiences Python presents an appealing all in one language for managing the tech mining process The book is a complement to other introductory books on the Python language providing recipes with which a practitioner can grow a practice of mining text For data science audiences this book gives a succinct overview over the most useful techniques of text mining The book also provides relevant domain knowledge from engineering management so an appropriate context for analysis can be created This is the first book of a two book series This first book discusses the mining of text while the second one describes the analysis of text This book describes how to extract actionable intelligence from a variety of sources including scientific articles patents pdfs and web pages There is a variety of tools available within Python for mining text In particular we discuss the use of pandas BeautifulSoup and pdfminer

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Preparing for the 2009 International Year of Astronomy Michael G. Gibbs,Jonathan Barnes,James G. Manning,2008 Endorsed by the United Nations UNESCO and the International Astronomical Union 2009 is designated as the International Year of Astronomy IYA and provides a year to celebrate and reflect on 400 years of changing perspectives of the universe In conjunction with the American Astronomical Society AAS the Astronomical Society of the Pacific ASP convened an IYA symposium and series of workshops at the AAS summer meeting in St Louis Missouri USA from May 31 to June 4 2008 During this conference astronomy and space science professionals gathered to share ideas and plans forge connections and collaborations and organize their efforts to make 2009 a singular year for advancing astronomy awareness and education This volume contains the content of the meeting plus an additional resource section It serves as a reference to aid those involved in the IYA as they make professional connections access resources and maximize their efforts to encourage the world s citizens to look up and discover anew the universe around us The Astronomical Society of the Pacific ASP founded in 1889 increases the understanding and appreciation of astronomy by engaging scientists educators enthusiasts and the public to advance science and science literacy Visit www.astrosociety.org for additional information regarding the ASP and how you

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