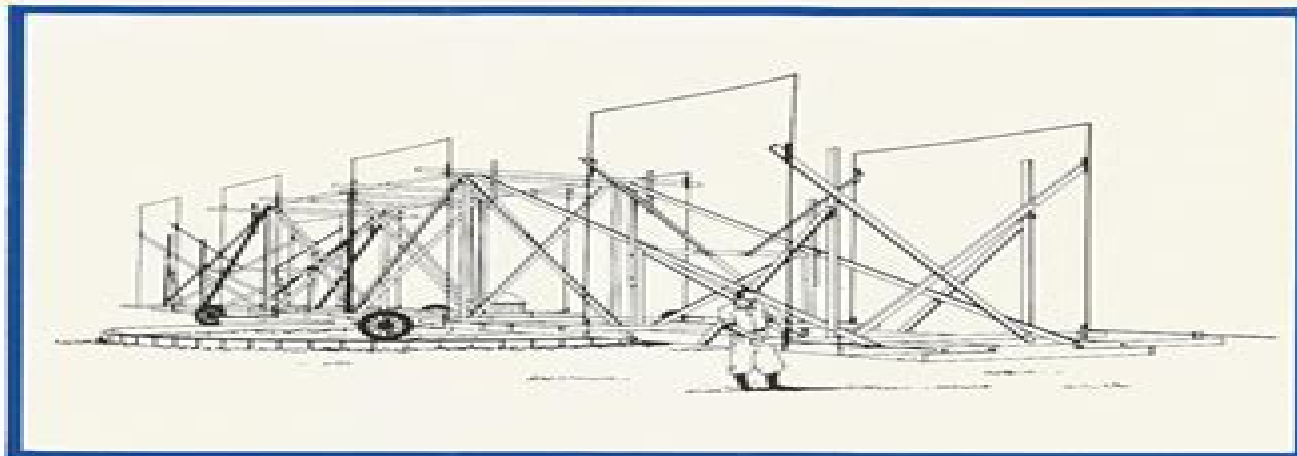


# SERENDIPITOUS DISCOVERIES IN RADIO ASTRONOMY

Proceedings of a Workshop held at the  
National Radio Astronomy Observatory  
Green Bank, West Virginia on May 4, 5, 6, 1983



Honoring the 50th Anniversary Announcing  
the Discovery of Cosmic Radio Waves  
by Karl G. Jansky on May 5, 1933

Edited by K. Kellermann and B. Sheets

# Serendipitous Discoveries In Radio Astronomy

**Jasper Wall, Elizabeth Griffin, Richard  
Jarrell**



## **Serendipitous Discoveries In Radio Astronomy:**

**Serendipitous Discoveries in Radio Astronomy** Kenneth I. Kellermann, B. Sheets, 1983      **Serendipitous Discoveries in Radio Astronomy: Proceedings of a Workshop Held at the ... Observatory, Green Bank, West Virginia on May 4,5,6, 1983; Ed. by K. Kellermann and B. Sheets** National Radio Astronomy Observatory, 1983      The Early Years of Radio Astronomy W. T. Sullivan, 2004 Recollection by pioneers in radio astronomy to mark the fiftieth anniversary of extraterrestrial radio emission in 1933      **Serendipitous Discoveries in Radio Astronomy** National Radio Astronomy Observatory (Estados Unidos). Workshop, 1983      **Literature 1985, Part 1** S. Böhme, U. Esser, Prof. Dr. W. Fricke, H. Hefele, Inge Heinrich, W. Hofmann, R. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-12-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 39 records literature published in 1985 and received before August 15 1985 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications On account of the introduction of an object index the scope of index information will be considerably enlarged beginning with this volume In connection with the subject index an additional source to satisfy the needs of retrieval is opened up Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura Ms Monika Kohl Ms Sylvia Matyssek Ms Karin Burkhardt Ms Susanne Schlotelburg and Mr Stefan Wagner supported our task by careful proofreading It is a pleasure to thank them all for their encouragement Heidelberg September 1985 The Editors Contents Introduction      **Serendipitous Discoveries in Radio Astronomy** K. Kellermann, 1983      *Star Noise: Discovering the Radio Universe* Kenneth I. Kellermann, Ellen N. Bouton, 2023-05-11 Until Karl Jansky's 1933 discovery of radio noise from the Milky Way astronomy was limited to observation by visible light Radio astronomy opened a new window on the Universe leading to the discovery of quasars pulsars the cosmic microwave background electrical storms on Jupiter the first extrasolar planets and many other unexpected and unanticipated phenomena Theory generally played little or no role or even pointed in the wrong direction Some discoveries came as a result of military or industrial activities some from academic research intended for other purposes some from simply looking with a new technique Often it was the right person in the right place at the right time doing the right thing or sometimes the wrong thing Star Noise tells the story of these discoveries the men and women who made them the circumstances which enabled them and the surprising ways in which real life scientific research works

### **Serendipitous Discoveries in Radio Astronomy** Kenneth I. Kellermann, 1986

### **Radio Astronomy in Canada** Jasper

Wall, Elizabeth Griffin, Richard Jarrell, 2024-12-23 Here is the tale of Canada's intriguing development of the science of Radio Astronomy. In 1946 the lone figure of Arthur Covington started monitoring the radio emission of the Sun, a programme that continues to this day. By the 1960s Canada had progressed to constructing two radio observatories at either ends of the country, the DRAO and the ARO, and universities were coming onboard. The story continues through the dire times for these and follows their fortunes and fates right up to the present with Canada now playing key roles in billion dollar international telescope projects. It concludes with the construction and operation of Canada's own transformational telescope CHIME. Anecdotes and images throughout the book liven the story. The authors, two practising astronomers, have painstakingly put together this fascinating story, drawing on first hand experiences, valuable contributions from many colleagues, and the research of science historian Richard Jarrell. 1942-2013. This book fills a gap in the substantial literature on the history of radio astronomy. Carefully researched by three experts and based on input by further experts in the field, it documents the extensive scientific and especially technical innovations of Canadian scientists and engineers. This includes the important Canadian absolute flux density calibrations, the critical Canadian contribution to low frequency radio astronomy and VLBI, and the long running solar monitoring programme. Frank discussions about the excellent 46 m ARO telescope and its fate lead into considerations of Canada's contributions to recent international projects, the JCMT, ALMA, and the upcoming SKA. The book concludes with a description of CHIME, Canada's own new generation radio installation. Ken Kellermann, Senior Scientist Emeritus, National Radio Astronomy Observatory, Charlottesville, USA. *Mirror, Mirror* Mark

Pendergrast, 2009-04-28 Of all human inventions, the mirror is perhaps the one most closely connected to our own consciousness. As our first technology for contemplation of the self, the mirror is arguably as important an invention as the wheel. *Mirror, Mirror* is the fascinating story of the mirror's invention, refinement, and use in an astonishing range of human activities, from the fantastic mirrored rooms that wealthy Romans created for their orgies to the mirror's key role in the use and understanding of light. Pendergrast spins tales of the 2,500-year mystery of whether Archimedes and his burning mirror really set faraway Roman ships on fire, the medieval Venetian glassmakers who perfected the technique of making large flat mirrors from clear glass, and for whom any attempt to leave their cloistered island was punishable by death. Isaac Newton, whose experiments with sunlight on mirrors once left him blinded for three days, the artist David Hockney, who holds controversial ideas about Renaissance artists and their use of optical devices, and George Ellery Hale, the manic-depressive astronomer and telescope enthusiast who inspired and gave his name to the twentieth century's largest ground-based telescope. Like mirrors themselves, *Mirror, Mirror* is a book of endless wonder and fascination. **Making Waves** M

Goss, 2013-07-10 This book is an abbreviated, partly re-written version of *Under the Radar: The First Woman in Radio Astronomy* by Ruby Payne Scott. It addresses a general readership interested in historical and sociological aspects of astronomy.

and presents the biography of Ruby Payne Scott 1912-1981. As the first female radio astronomer and one of the first people in the world to consider radio astronomy, she made classic contributions to solar radio physics. She also played a major role in the design of the Australian government's Council for Scientific and Industrial Research radars, which were of vital importance in the Southwest Pacific Theatre in World War II. These radars were used by military personnel from Australia, the United States, and New Zealand. From a sociological perspective, her career offers many examples of the perils of being a female academic in the first half of the 20th century. Written in an engaging style and complemented by many historical photographs, this book offers fascinating insights into the beginnings of radio astronomy and the role of a pioneering woman in astronomy. To set the scene, the first colourfully illustrated chapter presents an overview of solar astrophysics and the tools of the radio astronomer. From the reviews of *Under the Radar*: This is a beautifully researched, copiously illustrated and well-written book that tells us much more than the life of one amazing female radio astronomer. It also provides a profile on radar developments during WWII and on Australia's pre-eminent place in solar radio astronomy in the years following WWII. *Under the Radar* is compelling reading and if you have taken the time to read right through this review, then it certainly belongs on your bookshelf. Wayne Orchiston, *Journal of Astronomical History and Heritage*, March 2010. [An Introduction to Radio Astronomy](#)

Bernard F. Burke, Francis Graham-Smith, Peter N. Wilkinson, 2019-08-22. Radio astronomy is an active and rapidly expanding field due to advances in computing techniques with several important new instruments on the horizon. This text provides a thorough introduction to radio astronomy and its contribution to our understanding of the universe, bridging the gap between basic introductions and research-level treatments. It begins by covering the fundamentals: physics of radio techniques, before moving on to single-dish telescopes and aperture synthesis arrays. Fully updated and extensively rewritten, the fourth edition places greater emphasis on techniques, with detailed discussion of interferometry in particular, and comprehensive coverage of digital techniques in the appendices. The science sections are fully revised with new author Peter N. Wilkinson bringing added expertise to the sections on pulsars, quasars, and active galaxies. Spanning the entirety of radio astronomy, this is an engaging introduction for students and researchers approaching radio astronomy for the first time.

[In Quest of the Universe](#) Theo Koupelis, 2012-12. Every new copy of *In Quest of the Universe*, Seventh Edition, print textbook includes access to the Companion Website. Designed for the non-science major, *In Quest of the Universe*, Seventh Edition, provides a comprehensive, accessible introduction to astronomy while taking students on an exciting trek through our solar system and beyond. Updated throughout with the latest findings in this fast-paced field, the author unfolds historical and contemporary theories in astronomy to provide a clear account of how the science works. His student-friendly writing style and clear explanations acquaint students with our own solar system before moving on to the stars and distant galaxies. New Comparative Planetology boxes and data tables throughout the text examine the similarities and differences in the geology, evolution, and atmospheres of all the planets in our solar system. This rich pedagogy further engages students and motivates

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**In Quest of the Universe** Karl F. Kuhn, Theo Koupelis, 2004 Understanding Life Third Edition is intended for non major biology students General Biology non majors Principles of Biology

**Open Skies** Kenneth I. Kellermann, Ellen N. Bouton, Sierra S. Brandt, 2020-06-29 This open access book on the history of the National Radio Astronomy Observatory covers the scientific discoveries and technical innovations of late 20th century radio astronomy with particular attention to the people and institutions involved The authors have made extensive use of the NRAO Archives which contain an unparalleled collection of documents pertaining to the history of radio astronomy including the institutional records of NRAO as well as the personal papers of many of the pioneers of U S radio astronomy Technical details and extensive citations to original sources are given in notes for the more technical readers but are not required for an understanding of the body of the book This book is intended for an audience ranging from interested lay readers to professional researchers studying the scientific technical political and cultural development of a new science and how it changed the course of 20th century astronomy With a Foreword by Ron Ekers

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Beyond Southern Skies Peter Robertson, 1992-11-09 Beyond Southern Skies tells the story of the planning and construction of the Parkes Telescope in rural New South Wales Australia and surveys its achievements over the past thirty years Around this central theme Peter Robertson presents a broader history of radio astronomy describing its rapid rise to become the respected partner of traditional optical astronomy The opening up of the radio window on the universe has been one of the most exciting developments in modern science The technical achievements of the telescope outlined in Peter Robertson's very readable book will be accessible to a general audience Readers will be fascinated by the lively account of the personalities politics and controversy that lay behind the decision to build the Parkes Telescope Since its completion in 1961 the telescope has contributed much to our knowledge of quasars pulsars masers supernova remnants and molecular clouds as well as the other unusual objects discovered in recent years During the 1990s the telescope will continue to play a part in our quest to understand the origin and nature of the universe and our place in it

**Precision Process Technology** M.P.C. Weijnen, A.A.H. Drinkenburg, 2012-12-06 New process technology strategies are required to cope with the future Fossil feedstocks are losing ground in favour of renewable feedstocks and secondary resources Conventional processing routes using thermal sledgehammer techniques are replaced by highly selective bio catalytic conversions The future process engineer is neither allowed to think in terms of unit operations nor to take for granted the conventional practice of continuous steady state processing Hybrid systems and transient operations are more and more frequently encountered The continuing impressive progress being made in process modelling and control will revolutionize the process industries In the new generation of chemical production processes the keyword is precision Precision in terms of selectivity and of efficiency is required to maximize the utilisation of materials and energy Moreover enhanced precision is needed to exploit the quality of materials and energy to the full extent Only by reducing the squandering of materials energy and quality will a harmonious

relationship be established between the process industries the economy and the environment Process integration as well as an integrated effort by the disciplines involved in process technology will be of crucial importance in attaining the goals of precision process technology These emerging strategies involve an active exchange of tools and ideas between a variety of disciplines not only in plant design and operation but even more in the early stages of process development and design By looking from various angles at what the future has in store for the process industries this volume systematically lifts the corners of the veil and may inspire to establish a new tradition of precision in process technology



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