

CSIRO Astronomy And Space Science

Stephen Luntz

Radio Astronomy Tim Anderson, 1985

Golden Years of Australian Radio Astronomy Wayne Orchiston, Peter Robertson, Woodruff T. Sullivan III, 2022-01-20 The evolution of Australian radio astronomy from 1945 to 1960 has been studied in detail by numerous historians of science in recent years. This Open Access book is the first to present an overview of this remarkable chapter in Australian science. The book begins in the post-war period, as the Radiophysics Laboratory in Sydney switched from secret wartime research on radar to peacetime applications of this new technology. Next follows the detection of radio waves from space and the ensuing transformation of this fledgling science into the dominant research program at the Radiophysics Lab. Drawing from this history, the book shows how by 1960 the Radiophysics Lab had become the largest and most successful radio astronomy group in the world. The final chapter presents an overview of Australian radio astronomy from 1960 to the present day, as Australia prepares to co-host the multi-national, multi-billion-dollar Square Kilometre Array. Nearly 300 high-quality images complement the text, drawn from a wide range of sources including the extensive collection held by the CSIRO Radio Astronomy Image Archive. The book will be an essential reference for readers interested in the scientific and cultural development of radio astronomy. This book is published open access under a CC BY 4.0 license.

The Rise of Science Peter Shaver, 2018-07-17 How did science rise up to so dramatically change our world, and where will it take us in the future? This book gives a unique and broad overview. A brief history reveals the major phases and turning points in the rise of science from the earliest civilizations to the present: How was science 'discovered'? Why did it disappear a few times? When did it become 'modern'? A critical assessment examines how science actually 'happens': the triumphs, the struggles, the mistakes and the luck. Science today is endlessly fascinating, and this book explores the current exponential growth, curiosity-driven vs. goal-oriented research, big and small science, the support of science, the relation of science to society, philosophy and religion, and the benefits and dangers of science. Finally a glimpse into the future: Will the current pace of science continue? Will we ever go backwards (again)? What remains to be discovered? Can science ever be complete? What can we imagine for the distant future? This book will be of wide interest to the general reader as well as to students and working scientists. This book provides a fresh, unique and insightful coverage of the processes of science, its impact on society and our understanding of the world, based on the author's experience gained from a lifetime in science. Ron Ekers, FRS, CSIRO Fellow, CSIRO Astronomy & Space Science, former President of the International Astronomical Union Peter Shaver's comprehensive and lively survey deserves a wide readership. Scientific discoveries are part of our global culture and heritage, and they underpin our lives. It's fascinating to learn how they were made, and how they fit into the grand scheme. This book isn't just for scientists - it's written for all of us. Martin Rees, FRS, Astronomer Royal, former President of the Royal Society and former Master of Trinity College, Cambridge This book offers a wonderfully concise and accessible insight into science - its history, breadth and future prospects. Peter Shaver gives a feeling for what it actually means to be a practicing scientist. Stephen Simpson, FRS, Academic Director, Charles Perkins Centre, School of Life and Environmental Sciences, University of Sydney

StarGuides Plus Andre Heck, 2004-04-30 StarGuides Plus represents the most comprehensive and accurately validated collection of practical data on organizations involved in astronomy, related space sciences and other related fields. This invaluable reference source (and its companion volume, StarBriefs Plus) should be on the reference shelf of every library, organization or individual with any interest in these areas. The coverage includes relevant universities, scientific committees, institutions, associations, societies, agencies, companies, bibliographic services, data centers, museums, dealers, distributors, funding organizations, journals, manufacturers, meteorological services, national norms & standard institutes, parent associations & societies, publishers, software producers & distributors, and so on. Besides astronomy and associated space sciences, related fields such as aeronautics, aeronomy, astronautics, atmospheric sciences, chemistry, communications, computer sciences, data processing, education, electronics, engineering, energetics, environment, geodesy, geophysics, information handling, management, mathematics, meteorology, optics, physics, remote sensing, and so on, are also covered where appropriate. After some thirty years in continuous compilation, verification and updating, StarGuides Plus currently gathers together some 6,000 entries from 100 countries. The information is presented in a clear, uncluttered manner for direct and easy use. For each entry, all practical data are listed: city, postal and electronic-mail addresses, telephone and fax numbers, URLs for WWW access, foundation years, numbers of members and/or numbers of staff, main activities, publications titles (with frequencies, ISS-Numbers and circulations), names and geographical coordinates of observing sites, names of planetariums, awards (prizes and/or distinctions) granted, etc. The entries are listed alphabetically in each country. An exhaustive index gives a breakdown not only by different designations and acronyms, but also by location and major terms in names. Thematic sub-indices are also provided as well as a list of telephone and telefax national codes. In short, almost anyone involved in any way in the fields of astronomy and related space sciences will find invaluable contact and background information in this volume. All entries have been compiled from data supplied by the listed organizations and all data have been independently verified - making of this compilation the most accurate and relevant source available.

Parkes: Thirty Years of Radio Astronomy DK Milne, 1994-01-01 The opening of the Parkes radio telescope in October 1961 placed Australia at the forefront of international research in radio astronomy and ushered in an era of rapid developments in our understanding of the origin and nature of the Universe and our place within it. Thirty years later, the scientists, engineers and technical staff involved in the establishment, operation and subsequent development of this most successful of Australian research instruments gathered to review and reflect on their achievements, and to recount many of the human stories that were so intimately bound up with this extraordinarily productive period in Australia's scientific history. This book presents their accounts of the work and life at Parkes, and provides a fresh perspective on the growth of Australian science over the past three decades.

Probing the New Solar System John Wilkinson, 2009-01-08 Exploration by space probes has revealed many fascinating details about Earth's planetary neighbours. Today we stand on the threshold of the next phase of planetary exploration and knowledge, with several space probe missions currently underway and others being planned. Probing the New Solar System discusses the latest findings that have contributed to a changed understanding of the solar system - and how the revised definition of a planet in 2006 by the International Astronomical Union affected this understanding. Each chapter includes some historical information, 'Did you know?' items of particular interest to readers, and photographs of objects in the solar system showing newly discovered features of the planets, their moons and of dwarf planets. This is an up-to-date record of the many recent discoveries made about our solar system and other planetary systems using ground-based and space probe technology. It has been written for people interested in astronomy, both professional and amateur, as well as for students and educators.

Galaxies in the Local Volume Bärbel Silvia Koribalski, H. Jerjen, 2009-04-29 This timely book presents an overview of the galaxies within the Local Volume, including the Local Group and our closest neighbours, the Andromeda Galaxy and the Magellanic Clouds. Presented here are the latest results from radio, infrared and optical surveys as well as detailed multi-wavelength studies of individual galaxies. The book aims to provide a vibrant forum for presentations and discussions across a broad range of astrophysical topics.

Federal Funding of Astronomical Research National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Space Studies Board, Board on Physics and Astronomy, Committee on Astronomy and Astrophysics, 2000-02-01 The Committee on Astronomy and Astrophysics (CAA), at its meeting on September 8, 1997, was briefed on the legislative report accompanying the bill to authorize appropriations for fiscal years 1998 and 1999 for the National Science Foundation (NSF). The report raised a number of questions about trends in support for research in astronomy and the overall robustness of the programs providing that support. At its meeting, the CAA heard the views of NSF and the National Aeronautics and Space Administration (NASA) on these issues. In consultation with the Board on Physics and Astronomy, the Space Studies Board, and representatives of NASA and NSF, the committee accepted the task of studying three of the questions raised by the House Science Committee (HSC). It was intended that the results of the study would help guide federal support of basic research for the next decade and serve as analytical input to the new 2000 decadal survey of the Astronomy and Astrophysics Survey Committee (AASC). The study would not offer specific funding recommendations, but rather would provide a background analysis of the alignment between available resources, agency priorities, and the vitality of the basic research program.

Report of the Fact Finding Mission, CSIRO Space Science and Technology Study Group Kenneth G. McCracken, Christine E. Astley-Boden, Commonwealth Scientific and Industrial Research Organization (Australia). Space Science and Technology Study Group, 1984

Explorers of the Southern Sky Raymond Haynes, 1996-06-27 The most comprehensive account of Australian astronomy to date.

Earth Orbital Science William R. Corliss, 1971

Highlighting the History of Astronomy in the Asia-Pacific Region Wayne Orchiston, Tsuko Nakamura, Richard G. Strom, 2011-08-27 With just 400 pages, this title provides readers with the results of recent research from some of the world's leading historians of astronomy on aspects of Arabic, Australian, Chinese, Japanese, and North and South American astronomy and astrophysics. Of particular note are the sections on Arabic astronomy, Asian applied astronomy and the history of Australian radio astronomy, and the chapter on Peruvian astronomy. This title is of particular appeal to those with research interests in applied historical astronomy; archaeoastronomy; calendars, manuscripts, and star charts; historical instruments and observatories, and the history of radio astronomy.

Forensics, Fossils and Fruitbats Stephen Luntz, 2011 Forensics, Fossils and Fruitbats is a fascinating collection of more than 70 profiles of Australian scientists from 15 fields of physical, biological and medical science. These scientists have been selected because their research is inspiring, intriguing or simply quirky, or because they have taken an unusual or interesting path to the work they do. Profiles include: * A forensic archaeologist whose work has taken her from Antarctica to Pompeii * A palaeontologist who revolutionized understanding of Australia's dinosaurs * A computer scientist teaching computers to understand jokes * The engineer behind technologies that could bring clear sight to a billion people and clean energy to billions more. For anyone considering a career in science, Forensics, Fossils and Fruitbats provides insight into the challenges and triumphs of being a scientist. For everyone else, it is a rare peek into the reality of how science is done.

CSIRO Space Science & Applications Kenneth G. McCracken, 1987

Australia in Space Kerrie A. Dougherty, 2017-12-31 The exploration of space was seen as the greatest adventure of the Twentieth Century, while in the Twenty First Century space-based services have become an integral part of our daily lives. Although it is not often recognised, Australia has had its part to play in setting the world on the road to the stars and was one of the earliest nations to launch its own satellite. Today, the country is one of the largest users of space-based services. This revised and updated edition of Space Australia tells the story of Australia's involvement with space activities, from the earliest rocketeers to the latest satellite projects. It describes the vision, high hopes and achievements of professional space scientists and engineers, in both the civil and defence spheres, as well as the inspired amateurs and the new-breed of young space entrepreneurs who want to contribute to Australia's space future. The book also highlights the challenges of maintaining an Australian commitment to space activities through changing political and economic circumstances.

Under the Radar M Goss, Richard McGee, 2009-09-24 It is rare for a complete biography of an Australian scientist, particularly of an Australian woman scientist, to be published. It is rarer for such a book to be co-authored by an American. Although scientists have written discourses on the history of their discipline, it is most unusual for a scientist to write a full length biography of a colleague in his field. It is also uncommon for a man to write about an Australian woman scientist; most of the work on Australian women scientists has been done by other women. However, these authors, both distinguished researchers in the field of radio astronomy, became so interested in the history of their discipline and in the career of the pioneer radio astronomer Ruby Payne-Scott that they spent some years bringing this book to fruition. Until relatively recently, Ruby Payne-Scott had been the only woman scientist mentioned briefly in histories of Australian science or of Australian radio astronomy. This book will be an invaluable resource for anyone interested in these disciplines. Being scientists themselves, the authors explain Payne-Scott's scientific work in detail; therefore, the value and importance of her contributions can, for the first time, be recognised, not only by historians but also by scientists.

Four Pillars of Radio Astronomy: Mills, Christiansen, Wild, Bracewell R.H. Frater, W.M. Goss, H.W. Wendt, 2017-10-28 This is the story of Bernie Mills, Chris Christiansen, Paul Wild and Ron Bracewell, members of a team of radio astronomers that would lead Australia, and the world, into this new field of research. Each of the four is remembered for his remarkable work: Mills for the development of the cross type instrument that now bears his name; Christiansen for the application of rotational synthesis techniques; Wild for the masterful joining of observations and theory to elicit the nature of the solar atmosphere; Bracewell for his contribution to imaging theory. As well, these Four Pillars are remembered for creating a remarkable environment for scientific discovery and for influencing the careers of future generations. Their pursuit of basic science helped pave the way for technological developments in areas ranging from Wi-Fi to sonar to medical imaging to air navigation, and for underpinning the foundations of modern cosmology and astrophysics.

Space Warfare and Defense Bert Chapman, 2008-03-19 This timely resource provides a history of the development of space weapons and warfare strategies and a comprehensive reference guide to the growing literature on the subject. Space Warfare and Defense: A Historical Encyclopedia and Research Guide provides comprehensive coverage of the development of space as a possible arena for warfare, exploring the military uses of space—past, present, and future—and specific details of actual space weapons systems. The encyclopedia spans the breadth of U.S. military space policy; comparable programs in the Soviet Union, China, and the European Union; and the full array of international agreements designed to regulate the military uses of space. In addition, the encyclopedia includes an extensive reference guide (nearly 40 percent of the book) directing readers to the essential literature on space weapons and defense systems produced by the United States, other governments, research institutions, and additional sources. At a time when space is becoming an increasingly important place of military competition and potential conflict, Space Warfare and Defense dispels the myths and examines the realities of what may become humanity's ultimate battlefield.

Observing Photons in Space Martin C. E. Huber, Anuschka Pauluhn, J. Len Culhane, J. Gethyn Timothy, Klaus Wilhelm, Alex Zehnder, 2013-12-11 An ideal resource for lecturers, this book provides a comprehensive review of experimental space astronomy. The number of astronomers whose knowledge and interest is concentrated on interpreting observations has grown substantially in the past decades; yet, the number of scientists who are familiar with and capable of dealing with instrumentation has dwindled. All of the authors of this work are leading and experienced experts and practitioners who have designed, built, tested, calibrated, launched and operated advanced observing equipment for space astronomy. This book also contains concise information on the history of the field, supported by appropriate references. Moreover, scientists working in other fields will be able to get a quick overview of the salient issues of observing photons in any one of the various energy, wavelength and frequency ranges accessible in space. This book was written with the intention to make it accessible to advanced undergraduate and graduate students.

Joe Pawsey and the Founding of Australian Radio Astronomy W. M. Goss, Claire Hooker, Ronald D. Ekers, 2023-01-10 This open access book is a biography of Joseph L. Pawsey. It examines not only his life but the birth and growth of the field of radio astronomy and the state of science itself in twentieth century Australia. The book explains how an isolated continent with limited resources grew to be one of the leaders in the study of radio astronomy and the design of instruments to do so. Pawsey made a name for himself in the international astronomy community within a decade after WWII and coined the term radio astronomy. His most valuable talent was his ability to recruit and support bright young scientists who became the technical and methodological innovators of the era, building new telescopes from the Mills Cross and Chris (Christiansen) Cross to the Parkes radio telescope. The development of aperture synthesis and the controversy surrounding the cosmological interpretation of the first major survey which resulted in the Sydney research group's disagreements with Nobel laureate Martin Ryle play major roles in this story. This book also shows the connections among prominent astronomers like Oort, Minkowski, Baade, Struve, famous scientists in the UK such as J.A. Ratcliffe, Edward Appleton and Henry Tizard, and the engineers and physicists in Australia who helped develop the field of radio astronomy. Pawsey was appointed the second Director of the National Radio Astronomy Observatory (Green Bank, West Virginia) in October 1961; he died in Sydney at the age of 54 in late November 1962. Upper level students, scientists and historians of astronomy and technology will find the information, much of it from primary sources, relevant to any study of Joseph L. Pawsey or radio astronomy. This open access book includes a Foreword by Woodruff T. Sullivan II.

Delve into the emotional tapestry woven by Crafted by in Dive into the Emotion of **CSIRO Astronomy And Space Science** . This ebook, available for download in a PDF format (Download in PDF: *), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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CSIRO Astronomy And Space Science Introduction

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