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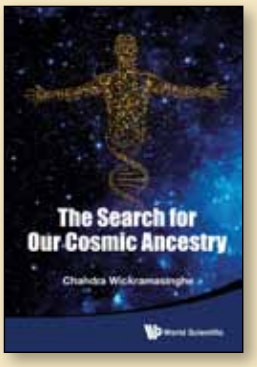
World Scientific presents books by

# Chandra Wickramasinghe

**Professor Chandra Wickramasinghe** is an internationally acclaimed astronomer, famous for his pioneering studies on the carbonaceous nature of cosmic dust and the prevalence extraterrestrial life. He is a recipient of several international awards and honorary doctorates. He was a former Fellow of Jesus College, Cambridge and a Professor at Cardiff University for 40 years. He is currently Honorary Professor and Director of the Buckingham Centre for Astrobiology at the University of Buckingham, a Visiting Academics at Churchill College, Cambridge, and a Visiting Professor at the University of Peradeniya, Sri Lanka. He is also a founder member of the newly-formed Institute for the Study of Panspermia and Astroeconomics in Gifu, Japan. He has written over 30 books and 300 scientific papers, over 60 of these being in the journal Nature.

## THE SEARCH FOR OUR COSMIC ANCESTRY

by **Chandra Wickramasinghe**
*(Buckingham Centre for Astrobiology, UK)*




*"The author is today's foremost expert on panspermia, having inherited that mantle from the iconic astronomer of the 20th century Sir Fred Hoyle who, with Wickramasinghe as his pupil, strongly re-introduced the subject in the early 1970's. He makes a compelling case for panspermia conveying a cosmic imperative for biology."*

**Gilbert V Levin**
**Principal Investigator of NASA's Mars Viking Mission of 1976**
**Discoverer of evdience for Microbial Life on Mars**
**Arizona State University**

*"The book is accessible to those interested in an appreciation of a central question that spans all ages, and scientists and science students, who are seeking coverage of this pioneering subject matter. The historical approach to the subject will be appreciated by readers. The book will take you on an intellectual trek and can transform how you think about humans and the universe. Hopefully it will encourage the next generation of scholars to continue seeking an understanding of the origin of life, one of the most profound challenges for humanity."*

**Professor J T Trevors**
**University of Guelph, Canada**

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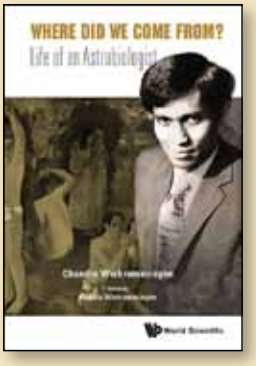
## WHERE DID WE COME FROM?

Life of an Astrobiologist
by **Chandra Wickramasinghe** *(Buckingham Center for Astrobiology, University of Buckingham, UK & University of Peradeniya, Sri Lanka)*
edited by **Kamala Wickramasinghe**




The life story of this book spans many stages of the life and scientific career of one of the foremost astrophysicists/ astrobiologists of our times. Starting from his boyhood days, the book describes the author's scientific work over the past 50 years, the ground-breaking discoveries he had made, the controversies generated in the scientific community, and the gradual acceptance of his discoveries. Written in lucid non-technical language it captures the essence of the author's research at Cambridge, his lifelong collaborations with the legendary astronomer of the 20th century, Sir Fred Hoyle, the birth of the subject of astrobiology which they arguably "invented" in 1980, and his continuing ground-breaking research carried out while he was a Professor at Cardiff and later at Buckingham. The book traces the various influences that guided the author through his career, including that of his father who was a Cambridge Wrangler, and the profound influence of Buddhism in his early life.

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## VINDICATION OF COSMIC BIOLOGY

Tribute to Sir Fred Hoyle (1915 – 2001)
edited by **Nalin Chandra Wickramasinghe**
*(University of Buckingham, UK)*

In the year 2015, 100 years after Fred Hoyle was born, the ideas relating to the cosmic origins of life are slowly gaining credence in scientific circles. Once regarded as outrageous heresy, evidence from a variety of disciplines — astronomy, geology, biology — is converging to support these once heretical ideas.

This volume opens with recent review articles pointing incontrovertibly towards our cosmic heritage, followed by a collection of published articles tracing the development of the theory throughout the years. The discovery that microorganisms — bacteria and viruses — are incredibly resistant to the harshest conditions of space, along with the detection of an estimated 144 billion habitable planets around other star systems in our galaxy alone, makes it virtually impossible to maintain that life on one planet will not interact with life elsewhere. The emerging position is that life arose exceedingly rarely, possibly only once, in the history of the cosmos, but its subsequent spread was unstoppable. "Panspermiology" can no longer be described as an eccentric doctrine, but rather is the only doctrine supported by an overwhelming body of evidence. Fred Hoyle's work in this area may in the fullness of time come to be regarded as his most important scientific contribution.

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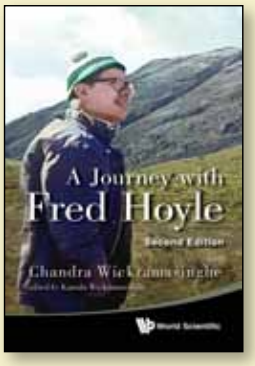
# Chandra Wickramasinghe

## A JOURNEY WITH FRED HOYLE
### Second Edition

by **Chandra Wickramasinghe**
*(University of Buckingham, UK)*

edited by **Kamala Wickramasinghe**




**Reviews of the First Edition:**

*"This is the story of the remarkable 40-year friendship and scientific collaboration between the British astrophysicist Fred Hoyle and the Sri Lankan mathematician and astronomer Chandra Wickramasinghe ... The work they are most famous for is their painstaking building of the case for a cosmic origin of life. Wickramasinghe and Hoyle's picture of a galaxy teeming with life is a stunning one ... The scientific community has come a long way towards Hoyle and Wickramasinghe's position, wholeheartedly embracing the idea of planetary panspermia."*

**New Scientist**

*"The Hoyle-Wickramasinghe collaboration was notable for the daring leaps over knowledge gaps they were prepared to make. This book is a valuable guide to their corpus, and can serve as a source of ideas and speculations."*

**International Journal of Astrobiology**

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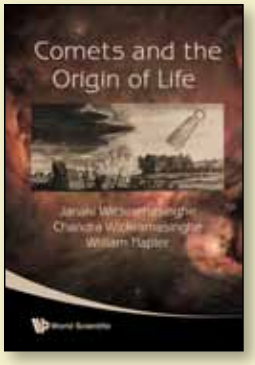
| **268pp** | **Apr 2013** | |
| **978-981-4436-12-0(pbk)** | **US$42** | **£28** |

## COMETS AND THE ORIGIN OF LIFE

by **Janaki Wickramasinghe**, **Chandra Wickramasinghe** & **William Napier** *(Cardiff University, UK)*




*"This book provides a very cogent, scientific and orderly review of the Hoyle-Wickaramsinghe revival of the ancient theory of panspermia."*

**Gilbert V Levin**
**Arizona State University**

The present book sets out the case for cometary panspermia in a cogent way, combining evidence from space science, celestial mechanics, geology and microbiology. It should be an essential part of any university course on astrobiology, and also serve as a reference textbook for researchers in the field.

**Contents:** Cosmic Dust and Life; The Origin of Comets; Comets in the Galactic Environment; Dark Comets: A Link to Panspermia; Expulsion of Microbes from the Solar System; Liquid Water in Commets; Origin of Life; Expanding Horizons of Life

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