## **JOURNAL OF ASTRONOMICAL HISTORY AND HERITAGE**

ISSN 1440-2807

VOLUME 22 NUMBER 3

**DECEMBER 2019** 

## CONTENTS

	Page
Papers	
Treading carefully: V.M. Slipher, C.O. Lampland, E.C. Slipher and their ambivalent relationship with Percival Lowell's Mars William Sheehan	365
The concepts of deśāntara and yojana in Indian astronomy Padmaja Venugopal, K. Rupa, S.K. Uma and S. Balachandra Rao	401
The calendars of Southeast Asia. 1: Introduction  Lars Gislén and C.J. Eade	407
The calendars of Southeast Asia. 2: Burma, Thailand, Laos and Cambodia Lars Gislén and C.J. Eade	417
The calendars of Southeast Asia. 3: Vietnam Lê Thành Lân	431
The calendars of Southeast Asia. 4: Malaysia and Indonesia Lars Gislén and C.J. Eade	447
The calendars of Southeast Asia. 5: Eclipse calculations, and the longitudes of the Sun, Moon and planets in Burmese and Thai astronomy  Lars Gislén and C.J. Eade	458
The calendars of Southeast Asia. 6: Calendrical records  Lars Gislén and C.J. Eade	479
Notes on the transmission of Ptolemy's <i>Almagest</i> and some geometrical mechanisms to the era of Copernicus  Kevin Krisciunas and Belén Bistué	492
Radio astronomy at Cornell University: the early years, 1946 to 1962 Donald B. Campbell	503
The Tarawera volcanic eruption in New Zealand and Māori cometary astronomy Wayne Orchiston and John Drummond	521
The <i>Bhāsvatī</i> astronomical handbook of Śatānanda Sudhira Panda	536
Rationale for Śrīrguṇamitrādivākyas as described in the Laghuprakāśikā R. Venkesteswara Pai	545
Book Reviews	
Vedic Mathematics and Science in Vedas, by S. Balachandra Rao.  Mayank Vahia	553
Gerard P. Kuiper and the Rise of Modern Planetary Science, by Derek W.G. Sears. William K. Hartmann	553
Conference Dedicated to the 100 <sup>th</sup> Anniversary of the Death of Dr. Nicolaus Thege-Konkoly, and 145 <sup>th</sup> Anniversary of the Founding of the Hurbanovo Observatory, edited by Eduard Koči Stanislav Šišulák	555
The Lost Planets: Peter van de Kamp and the Vanishing Exoplanets Around Barnard's Star, by John Wenz.  Clifford Cunningham	556
Time of our Lives: Sundials of the Adler Planetarium, by Sara J. Schechner Mike Cowham	557

Contents	
The First Latin Treatise of Ptolemy's Astronomy: The Almagest Minor (c. 1200) [Ptolemaeus Arabus et Latinus, Texts: Volume 1], by Henry Zepeda.  Dominque Raynaud	559
Jan Hendrik Oort: Master of the Galactic System, by Pieter C. van der Kruit Virginia Trimble	561
The Oxford Handbook of the History of Modern Cosmology, edited by Helge Kragh and Malcolm Longair Wayne Orchiston	565
Index	567

## **STOP PRESS**

We have just received the terrible news that one of our valued Editorial Board members, Dr Yukio Ôhashi from Tokyo, Japan, died suddenly at the end of October. We express our condolences to the Ôhashi family, and hope to publish an Obituary in the April 2020 issue of *JAHH*.



Published by the National Astronomical Research Institute of Thailand, 260 Moo 4, T. Donkaew, A. Maerim, Chiang Mai 50180, Thailand.