

## Notes on Contributors

**Gregg De Young** has taught in the Core Curriculum Program at The American University in Cairo since 1990. His research interests focus on the history of Euclidean geometry during the medieval period. Other academic interests are the history of mathematical diagrams, the introduction of European-style geometry textbooks to the Middle East during the nineteenth century, the impact of print technology on the presentation of geometry in Middle Eastern vernaculars, history of mathematics pedagogy, and the role of commentaries in the Arabic transmission of the *Elements*.

**Jambugahapitiye Dhammadhoka** is currently a graduate student at the University of Canterbury, Christchurch, New Zealand, completing his PhD in the History of Mathematical Sciences in Sanskrit Sources. He is also a lecturer in Sanskrit at the University of Peradeniya, Sri Lanka. His research areas are scientific literature in Sanskrit, the literature on architecture, sculpture, paintings, and astro-mathematical literature in particular, and Buddhist art.

**Daniel A. Di Liscia** studied philosophy at the University of Buenos Aires with a specialization in the history of late medieval and early modern philosophy (1989), and received his PhD from the LMU München (summa cum laude). He worked for a number of years as Scientific Collaborator and Scientific Director in the Munich editions of Copernicus and Kepler. He is currently responsible for the “Calculatores-Project” at the Munich Center for Mathematical Philosophy (LMU, München).

**Seb Falk** is the Rosamund Chambers Research Fellow in History of Science at Girton College, Cambridge. He completed his PhD at the University of Cambridge in 2016. He is currently researching the study and practice of sciences in late medieval monasteries.

**Clemency Montelle** holds a PhD from the Department of the History of Mathematics, Brown University, USA, which she completed as Fulbright scholar. She is currently an Associate Professor in the Department of Mathematics and Statistics at the University of Canterbury. Her consideration of the mathematical achievements of early cultures is carried out by the examination and analysis of primary source material in Sanskrit, Arabic, Greek, Latin, and Cuneiform. Her first book, *Chasing Shadows-Mathematics, Astronomy, and the Early History of Eclipse Reckoning*, focusing on the theoretical treatment of eclipse phenomena in the ancient world, was published by Johns Hopkins University Press.

**K. Ramasubramanian** holds a PhD in Theoretical Physics, a BS in Engineering, and an MA in Sanskrit. He was honored with the coveted title “Vidvat Pravara” by the Shankaracharya of Sri Sringeri Sharada Peetham in 2003 for completing a course in Advaita Vedanta. Besides jointly authoring a few books, he has authored several papers that highlight (1) the seminal contributions of the Kerala School of astronomers and mathematicians during the medieval period and (2) the notion of space and time as delineated in Indian philosophical systems. In 2008, he was conferred the prestigious Maharsi Badarayana Vyas Samman by the President of India in recognition of the research work done by him to the process of synergy between modernity and tradition. He is currently a Professor at the Indian Institute of Technology Bombay.

## **Information for Authors**

### **1. Area and editorial principles**

In principle the area to be covered by the journal is the history of exact sciences before A.D. 1600, although the limitation of time need not apply to Asian (including Arabic and Islamic) science.

The main purpose of the journal is to make available original sources in the field. It has been a common practice that source materials in their original languages are not accepted in most other academic journals. Our priority lies in providing such materials, especially critical editions of unpublished texts as well as their translation into modern languages (preferably English) together with comments and notes.

We also accept studies based on original sources, published or unpublished, and their translations. Reviews of books containing original source materials are also welcome.

The papers submitted to the editorial board are judged by at least two referees. The referees are kept anonymous for 10 years following the final decision. Thereafter, the names of the referees will be published on the journal's website.

Manuscripts should be submitted to SCIAMVS with the understanding that upon publication copyright will be transferred to the Editorial Board of SCIAMVS. That understanding precludes SCIAMVS from considering material that has been submitted or accepted for publication elsewhere.

### **2. Frequency and physical form of the journal**

One volume will be published every year, each containing some 200 to 300 pages in A4 (297×210mm) format. In the case of an original source material, it is desirable to include an English translation.

Since we send camera ready sheets to the printing company, the most convenient way of preparing a draft is to use the typesetting software L<sup>A</sup>T<sub>E</sub>X, for which we can provide convenient style files. In the case of original sources which require non-roman fonts, we prefer X<sub>E</sub>L<sup>A</sup>T<sub>E</sub>X, but are also willing to accept other formats if they meet our basic formatting principles.

Authors will receive one free copy of the issue in which the article appears. Authors are requested to purchase 50 offprints of their paper.

### **3. Address**

All correspondence should be sent to:

Nathan Sidoli  
School of International Liberal Studies  
Waseda University  
1-6-1 Nishi-Waseda, Shinjuku-ku  
Tokyo, 169-8050, Japan  
email: sciamvs@sciamvs.org  
<http://www.sciamvs.org>

## Articles in Preceding Volumes

### Volume 1 (2000)

|   |     |
|---|-----|
| <b>Kazuo Muroi.</b> Quadratic Equations in the Susa Mathematical Text No. 21 . . . . .  | 3   |
| <b>Eleanor Robson.</b> Mathematical Cuneiform Tablets in Philadelphia. Part 1: Problems and Calculations . . . . .                | 11  |
| <b>Jan P. Hogendijk.</b> Al-Nayrīzī's Mysterious Determination of the Azimuth of the Qibla at Baghdād . . . . .                   | 49  |
| <b>Jacques Sesiano.</b> Un recueil du XIII <sup>e</sup> siècle de problèmes mathématiques . . . . .                               | 71  |
| <b>Takao Hayashi.</b> The <i>Caturacintāmaṇi</i> of Giridharabhaṭṭa: A Sixteenth-Century Sanskrit Mathematical Treatise . . . . . | 133 |
| <b>David Pingree.</b> Amṛtalaharī of Nityānanda . . . . .   | 209 |

### Volume 2 (2001)

|   |     |
|---|-----|
| <b>Kazuo Muroi.</b> Reexamination of the Susa Mathematical Text No. 12: A System of Quartic Equations . . . . .   | 3   |
| <b>Reviel Netz, Ken Saito and Natalie Tchernetska.</b> A New Reading of <i>Method Proposition 14</i> : Preliminary Evidence from the Archimedes Palimpsest (Part 1) . . . . . | 9   |
| <b>J. Lennart Berggren and Glen Van Brummelen.</b> Abū Sahl al-Kūhī on Rising Times . . . . .   | 31  |
| <b>Jan P. Hogendijk.</b> The Geometrical Works of Abū Sa‘īd al-Darīr al-Jurjānī . . . . .   | 47  |
| <b>Ken’ichi Takahashi.</b> A Manuscript of Euclid’s <i>De Speculis</i> : A Latin Text of MS 98.22 of the Archivo y Biblioteca Capitulares de la Catedral, Toledo . . . . .    | 75  |
| <b>Alexander Jones.</b> Pseudo-Ptolemy <i>De Speculis</i> . . . . .   | 145 |
| <b>Pier Daniele Napolitani and Jean-Pierre Sutto.</b> Francesco Maurolico et le centre de gravité du paraboloïde . . . . .  | 187 |
| <b>Setsuro Ikeyama and Kim Plofker.</b> The <i>Tithicintāmaṇi</i> of Ganeśa, A Medieval Indian Treatise on Astronomical Tables . . . . .                                      | 251 |

### Volume 3 (2002)

|   |     |
|---|-----|
| <b>Lis Brack-Bernsen and Hermann Hunger.</b> TU 11: A Collection of Rules for the Prediction of Lunar Phases and of Month Lengths . . . . .   | 3   |
| <b>Charles Burnett.</b> The Abacus at Echternach in ca. 1000 A.D. . . . .   | 91  |
| <b>Reviel Netz, Ken Saito and Natalie Tchernetska.</b> A New Reading of <i>Method Proposition 14</i> : Preliminary Evidence from the Archimedes Palimpsest (Part 2) . . . . .                       | 109 |
| <b>Ken’ichi Takahashi, Takako Mori and Youhei Kikuchihiara.</b> A Paraphrased Latin Version of Euclid’s <i>Optica</i> : A Text of <i>De visu</i> in MS Add.17368, British library, London . . . . . | 127 |
| <b>Takao Hayashi.</b> Notes on the Differences between the Two Recensions of the <i>Lilāvatī</i> of Bhāskara II . . . . .   | 193 |

### Volume 4 (2003)

|   |     |
|---|-----|
| <b>Kazuo Muroi.</b> Excavation Problems in Babylonian Mathematics: Susa Mathematical Text No. 24 and Others . . . . .                           | 3   |
| <b>Alan Bowen.</b> Simplicius' Commentary on Aristotle, <i>De caelo</i> 2.10–12: An Annotated Translation (Part 1) . . . . .                    | 23  |
| <b>Jan P. Hogendijk.</b> The Geometrical Problems of Nu <sup>c</sup> aim ibn Mu <sup>h</sup> ammad ibn Mūsā (ninth century) . . . . .           | 59  |
| <b>Jacques Sesiano.</b> Une compilation arabe du XII <sup>e</sup> siècle sur quelques propriétés des nombres naturels . . . . .                 | 137 |
| <b>Raymond Mercier.</b> Solsticial Observations in Thirteenth Century Beijing . . . . .   | 191 |
| <b>Setsuro Ikeyama.</b> Calculation of True Daily Motion: Two Rules of the <i>Brāhma-saṃhitāsiddhānta</i> (erratum in Vol. 5, p. 225) . . . . . | 233 |

### Volume 5 (2004)

|   |     |
|---|-----|
| <b>Eleanor Robson.</b> Mathematical Cuneiform Tablets in the Ashmolean Museum, Oxford . . . . .   | 3   |
| <b>Reviel Netz, Fabio Acerbi and Nigel Wilson.</b> Towards a Reconstruction of Archimedes' <i>Stomachion</i> . . . . .  | 67  |
| <b>François Charette and Petra G. Schmidl.</b> al-Khwārizmī and Practical Astronomy in Ninth-Century Baghdad. The Earliest Extant Corpus of Texts in Arabic on the Astrolabe and Other Portable Instruments . . . . . | 101 |
| <b>Christopher Minkowski.</b> A Nineteenth Century Sanskrit Treatise on the Revolution of the Earth: Govinda Deva's <i>Bhūmibhramāṇa</i> . . . . .  | 199 |

### Volume 6 (2005)

|  |     |
|--|-----|
| <b>Christine Proust.</b> A propos d'un prisme du Louvre : aspects de l'enseignement des mathématiques en Mésopotamie . . . . .           | 3   |
| <b>John M. Steele.</b> Four Procedure Texts Concerning Jupiter's Latitude and Syodic Motion from Babylon . . . . .                       | 33  |
| <b>Alexander Jones.</b> Ptolemy's <i>Canobic Inscription</i> and Heliodorus' Observation Reports . . . . .                               | 53  |
| <b>Ryuji Hiraoka.</b> Jesuit Cosmological Textbook in "the Christian century" Japan: <i>De sphaera</i> of Pedro Gomez (Part I) . . . . . | 99  |
| <b>Junsei Watanabe.</b> A Manchu Manuscript on Arithmetic Owned by Tōyō Bunko: "suwan fa yuwan ben bithe" . . . . .                      | 177 |

### Volume 7 (2006)

|   |     |
|---|-----|
| <b>Alexander Jones.</b> The Keskintos Astronomical Inscription: Text and Interpretations . . . . .  | 3   |
| <b>Nathan Sidoli.</b> The Sector Theorem Attributed to Menelaus . . . . .   | 43  |
| <b>Ken Saito.</b> A Preliminary Study in the Critical Assessment of Diagrams in Greek Mathematical Works (errata in Vol. 9, p. 257) . . . . . | 81  |
| <b>Mohammad Bagheri.</b> Kūshyār ibn Labbān's Glossary of Astronomy . . . . .   | 145 |
| <b>Takao Hayashi.</b> A Sanskrit Mathematical Anthology . . . . .   | 175 |

**Annick Horiuchi.** Review of Karine Chemla Guo Shuchun, *Les Neuf Chapitres : le classique mathématique de la Chine ancienne et ses commentaires*. . . . . 213

### Volume 8 (2007)

|   |     |
|---|-----|
| <b>Peter J. Huber and John M. Steele.</b> Babylonian Lunar Six Tablets . . . . .  | 3   |
| <b>Nathan Sidoli and J.L. Berggren.</b> The Arabic Version of Ptolemy's <i>Planisphere</i> or <i>Flattening the Surface of the Sphere</i> : Text, Translation, Commentary . . . . . | 37  |
| <b>Charles Burnett, Ji-Wei Zhao and Kurt Lampe.</b> The <i>Toledan Regule</i> : A Twelfth-Century Arithmetical Miscellany . . . . .   | 141 |

### Volume 9 (2008)

|   |     |
|---|-----|
| <b>Lis Brack-Bernsen and Hermann Hunger.</b> BM 42282+42294 and the Goal-Year Method . . . . .                              | 3   |
| <b>Alan Bowen</b> Simplicius' Commentary on Aristotle, <i>De caelo</i> 2.10-12: An Annotated Translation (Part 2) . . . . . | 25  |
| <b>Gregg De Young.</b> Book XVI: A Mediaeval Arabic Addendum To Euclid's <i>Elements</i> . . . . .                          | 133 |
| <b>Albrecht Heeffer.</b> Text Production Reproduction and Appropriation Within the Abbaco Tradition: A Case Study . . . . . | 211 |

### Volume 10 (2009)

|  |   |
|--|---|
| <b>Takao Hayashi.</b> Bijaganita of Bhāskara . . . . . | 3 |
|--|---|

### Volume 11 (2010)

|   |     |
|---|-----|
| <b>Albrecht Heeffer.</b> Algebraic Partitioning Problems from Luca Pacioli's Perugia Manuscript (Vat. Lat. 3129) . . . . .  | 3   |
| <b>Fabio Acerbi, Nicolas Vinel and Bernard Vitrac.</b> Les <i>Prolégomènes à l'Almageste</i> . Une édition à partir des manuscrits les plus anciens : Introduction générale – Parties I-III (errata in Vol. 12, p. 251) . . . . . | 53  |
| <b>John M. Steele.</b> Newly Identified Lunar and Planetary Tables from Babylon in the British Museum. . . . .  | 211 |

### Volume 12 (2011)

|   |     |
|---|-----|
| <b>José Bellver.</b> Jābir b. Aflah on the limits of solar and lunar eclipses. . . . .  | 3   |
| <b>Bernard Vitrac and Ahmed Djebbar.</b> Le Livre XIV des Éléments d'Euclide : versions grecques et arabes (première partie). . . . .   | 29  |
| <b>Karine Chemla and MA Biao.</b> Interpreting a Newly Discovered Mathematical Document Written at the Beginning of the Han Dynasty in China (Before 157 b.c.e.) and Excavated From Tomb M77 at (睡虎地) . . . . . | 159 |
| <b>Christopher Cullen.</b> Wu xing zhan 五星占 “Prognostics of the Five Planets” .   | 193 |

### Volume 13 (2012)

|  |   |
|--|---|
| <b>Bernard Vitrac and Ahmed Djebbar.</b> Le Livre XIV des Éléments d'Euclide : versions grecques et arabes (seconde partie). . . . . | 3 |
|--|---|

|   |     |
|---|-----|
| <b>Morimoto Mitsuo and Ogawa Tsukane.</b> Mathematical Treatise on the Technique of Linkage: Annotated English Translation of Takebe Katahiro's <i>Tetsujutsu Sankei</i> preserved in the National Archives of Japan. . . . . | 157 |
|---|-----|

### Volume 14 (2013)

|  |     |
|--|-----|
| <b>John M. Steele.</b> Shadow-Length Schemes in Babylonian Astronomy . . . . .   | 3   |
| <b>Jean Christianidis and Ioanna Skoura.</b> Solving Problems by Algebra in Late Antiquity: New Evidence from an Unpublished Fragment of Theon's Commentary on the <i>Almagest</i> . . . . . | 41  |
| <b>Bill M. Mak.</b> The Last Chapter of Sphujidhvaja's <i>Yavanajātaka</i> Critically Edited with Notes . . . . .  | 59  |
| <b>Yoichi Isahaya.</b> The <i>Tārīkh-i Qitā</i> in the <i>Zīj-i Īlhānī</i> — The Chinese Calendar in Persian . . . . .   | 149 |
| <b>Nathan Sidoli.</b> Review of Peter Riedlberger, Dominus of Larissa, <i>Encheiridon and Spurious Works: Introduction, Critical Text, English Translation, and Commentary</i> . . . . .     | 259 |

### Volume 15 (2014)

|  |     |
|--|-----|
| <b>SaKHYa.</b> The Turyayantraprakāśa of Bhūdhara: Chapters One to Ten . . . . .   | 3   |
| <b>Daniel A. Di Liscia.</b> A Tract <i>De maximo et minimo</i> According to Albert of Saxony . .   | 57  |
| <b>Bill M. Mak.</b> <i>Yusi Jing</i> — A Treatise of “Western” Astral Science in Chinese and its Versified Version <i>Xitian yusi jing</i> . . . . . | 105 |
| <b>Gregg De Young.</b> Editing a Collection of Diagrams Ascribed to Al-Hajjāj: An Initial Case Study . . . . .                                       | 171 |

### Volume 16 (2015)

|   |     |
|---|-----|
| <b>Clemency Montelle and Kim Plofker.</b> The Transformation of a Handbook into Tables: The <i>Brahmatulyasāraṇī</i> and the <i>Karaṇakutūhala</i> of Bhāskara . . . . .    | 1   |
| <b>Hermann Hunger.</b> A Collection of Observations from the Reign of Artaxerxes I . . . .  | 35  |
| <b>Yasuyuki Mitsuma.</b> From Preliminary Diaries to Short Diaries: The First and Second Steps in the Compilation Process of the Late Babylonian Astronomical Diaries . . . | 53  |
| <b>John M. Steele.</b> Late Babylonian Metrological Tables in the British Museum . . . . .  | 75  |
| <b>Fabio Acerbi.</b> Traces of Menelaus' <i>Sphaerica</i> in Greek Scholia to the <i>Almagest</i> . . . .   | 91  |
| <b>Ryuji Hiraoka and Akihiko Watanabe.</b> A Jesuit Cosmological Textbook in “Christian Century” Japan: <i>De sphaera</i> of Pedro Gomez (Part II) . . . . .                | 125 |

**Subscriptions:**

|  |   |
|--|---|
| Japan Publications Trading Co., Ltd.                                 | Pórtico Librerías, S.A.   |
| 1-2-1 Sarugaku-cho, Chiyoda-ku,                                      | P.O. Box 503 / Muñoz Seca, 6  |
| Tokyo 101-0064 JAPAN   | 50080 Zaragoza,   |
| Tel: +81-3-3292-3753   | SPAIN   |
| Fax: +81-3-3292-0410   | Fax: +34 976 35 32 26   |
| E-mail: <a href="mailto:serials@jptco.co.jp">serials@jptco.co.jp</a> | <a href="http://www.porticolibrerias.es">http://www.porticolibrerias.es</a> |

The institutional price for each volume is ¥10,000 (postage excluded).

For information about personal subscription rates, contact

SCIAMVS.

[sciamvs@sciamvs.org](mailto:sciamvs@sciamvs.org) — <http://www.sciamvs.org>