

## RECENT PUBLICATIONS RELATING TO THE HISTORY OF ASTRONOMY

Books and Pamphlets

Abdulla-zade, Khurshed F., and Numan N. Negmatov. Abu Makhmud Khudzhandi. Otv. red. O. V. Dobrovolskiy. Dushanbe, Izd-vo "Donish," 1986. 92 p. illus.  
At head of title: Akademika nauk Tadzhikskoї SSR. Ordona Trudovogo Krasnogo Znameni Institut astrofiziki. Institut istorii imeni Akhmeda Donisha.

Includes a facsimile of a treatise "On more accurate definition of sloping and latitude of the town" on 8 unnumbered pages following p. 81, and a Russian translation on p. 81-92.

Title page, table of contents, and foreword also in English and Tajik.

Alessandretti, Gianfranco. La meridiana di Piazza Vecchia in Bergamo. Fotografie: Domenico Lucchetti. Bergamo, Lucchetti, 1990. 47 p. col. illus., fold. plates.

Aveni, Anthony F., and Horst Hartung. Maya city planning and the calendar. Philadelphia, American Philosophical Society, 1986. 87 p. illus., plans. (American Philosophical Society, Philadelphia. Transactions, v. 76, pt. 7)

Bennett, J. A. Church, state, and astronomy in Ireland: 200 years of Armagh Observatory. Armagh, Armagh Observatory in association with the Institute of Irish Studies, the Queen's University of Belfast, 1990. 277 p. illus.

Bernhard, Carl G. The Research Station for Astrophysics, Capri and La Palma. Stockholm, Royal Swedish Academy of Sciences, 1989. 38 p. illus. (part col.), maps (part col.), ports. (part col.) (*Bidrag till Kungl. Vetenskapsakademien historia*, nr. 19)

Blackwell, Richard J. Galileo, Bellarmine, and the Bible. Including a translation of Foscarini's Letter on the motion of the earth. Notre Dame, Ind., University of Notre Dame Press, 1991. 291 p.

Brown, Robert A., and Jeanette C. Ishee. U.S. presidents and astronomical discovery. Baltimore, Md., Space Telescope Science Institute, 1991. 9 p.

Bryden, David J. Sundials and related instruments. Cambridge, Whipple Museum of the History of Science, 1988. [108] p. illus. (Whipple Museum of the History of Science. Catalogue, 6)

Chardak, Henriette. Kepler, le chien des étoiles. Paris, Librairie Séguier, 1989. 762 p. map.  
Novelistic treatment.

Clausnitzer, Lutz. Wilhelm Tempel und seine kosmischen Entdeckungen. Berlin-Treptow, 1989. 75 p. illus., ports. (Archenhold Sternwarte Berlin-Treptow. Vorträge und Schriften, Nr. 70)

De motu; studi di storia del pensiero su Galileo, Hegel, Huygens e Gilbert. Università degli studi di Milano, Facoltà di lettere e filosofia, Dipartimento di filosofia. Milano, Cisalpino, Istituto editoriale universitario, 1990. xxv, 182 p. (Quaderni di acme, 12)

Contents: Rambaldi, E. I. Introduzione.--De Pace, A. Galileo lettore di Girolamo Borri nel De motu--Majerna, D. Copernico nella interpretazione hegeliana dell'astronomia moderna.--Mormino, G. La relativa nel movimento negli scritti sull'urto di Christiaan Huygens.--Sianesi, L. Controversisti gesuiti su magnetismo e moto terrestre.

Drössler, Rudolf. Astronomie in Stein; Archäologen und Astronomen enträtseln alte Bauwerke und Kultstätten. Leipzig, Prisma-Verlag, 1990. 260 p. illus.

Goldstein, Bernard R., and David Pingree. Levi ben Gerson's prognostication for the conjunction of 1345. Philadelphia, American Philosophical Society, 1990. 60 p. (American Philosophical Society, Philadelphia. Transactions, v. 80, pt. 6)  
Includes Hebrew text.

González González, Francisco J. Catálogo de las obras antiguas de autores españoles. San Fernando, Cádiz, Instituto y Observatorio de Marina, 1986-87. 2 v. illus.  
Vol. 1: Boletín IOM, no. 1/86; v. 2: Boletín ROA, no. 1/87.  
Vol. 2 has imprint: San Fernando, Cádiz, Real Instituto y Observatorio de la Armada en San Fernando.  
Contents: v. 1. Astronomía.--v. 2. Astronomía náutica y navegación.

Guthke, Karl S. The last frontier; imagining other worlds, from the Copernican revolution to modern science fiction. Translated by Helen Atkins. Ithaca, N.Y., Cornell University Press, 1990. 402 p.  
Translation of Mythos der Neuzeit (1983).

Hermann, Armin. Nur der Name war geblieben; die abenteuerliche Geschichte der Firma Carl Zeiss. Stuttgart, Deutsche Verlags-Anstalt, 1989. 367 p. illus., ports.

Hubner, Wolfgang. Die Begriffe "Astrologie" und "Astronomie" in der Antike; Wortgeschichte und Wissenschaftssystematik. Mit einer Hypothese zum Terminus "Quadrivium." Stuttgart, Steiner-Verlag Wiesbaden, 1990. 82 p. illus. (Akademie der Wissenschaften und der Literatur, Mainz. Geistes- und sozialwissenschaftliche Klasse. Abhandlungen, Jahrg. 1989, Nr. 7)

Hufbauer, Karl. Exploring the sun; solar science since Galileo. Baltimore, Johns Hopkins University Press, 1991. xv, 370 p. illus., ports. (New series in NASA history)

International Congress of Americanists, 45th, Bogotá, 1985. Rituales y fiestas de las Américas. 45o. Congreso Internacional de Americanistas. Compiladora, Elizabeth Reichel D. Bogotá, Ediciones Uniplan, 1988. 418 p. illus., maps.

Partial contents: Astronomía y calendarios de las culturas andinas. Coordinadores: Mariusz Ziolkowski y Tom Zuidema. Dearborn, D. S. P., and R. E. White. Quartering the years in Tawantinsuyu. Mroz, M. Paracronología dinástica de los Incas según Guamán Poma de Ayala. Urbano, H. Los héroes Wiracocha y la constelación de Orión; simbolismo ternario andino y calendarios agrícolas.--Arqueoastronomía y etnoastronomía americana. Coordinadores: Elizabeth Reichel y Jorge Arias de Greiff. Reichel, E., and J. Arias de Greiff. Relatoria. Urton, G. Calendrical cycles and their projections in Pacariqtambo, Peru. Hildebrand, M. von. Datos etnográficos sobre la astronomía de los indígenas tanimuka del noroeste Amazónico. Triana, G. Etnoastronomía puinave.

Janković, Nenad D. Astronomija u starim srpskim rukopisima. Astronomy in ancient Serbian manuscripts. Urednik Tatimir P. Andelić. Beograd, Srpska akademija nauka i umetnosti, 1989. 257, [56] p. illus., plates. (Srpska akademija nauka i umetnosti. Posebna izdanja, knj. 590. Odeljenje prirodno-matematičkih nauka, knj. 64)

Summary in English.

Jones, Alexander. *Ptolemy's first commentator*. Philadelphia, American Philosophical Society, 1990. 61 p. illus. (American Philosophical Society, Philadelphia. Transactions, v. 80, pt. 7)  
Consists of an introduction, Greek text and translation on facing pages of a fragment dating from the 3d century, and commentary.

Kouklová, Michaela. *Knihovna astronoma Antonína Strnada*. Ondřejov, 1989. 311 p. illus. (Scripta astronomica, 4)

Krupp, Edwin C. *Beyond the blue horizon: myths and legends of the sun, moon, stars, and planets*. New York, HarperCollins, 1991. 387 p. illus., maps.

Der Leidener Aratus, antike Sternbilder in einer karolingischen Handschrift. Beschriftet und kommentiert von Anton von Euw. München, Bayerische Staatsbibliothek, 1989. 33 p. illus. (part col.) (Bayerische Staatsbibliothek. Ausstellungskataloge, 49)

Levy, David H. *Clyde Tombaugh, discoverer of planet Pluto*. Tucson, University of Arizona Press, 1991. 211 p. illus.

The Making of physicists. Edited by Rajkumari Williamson. Bristol, A. Hilger, 1987. 200 p. illus., facsimis., ports.

Includes personal accounts of undergraduate and postgraduate days by Sir William McCrea, G. C. McVittie, H. A. Brück, and Sir Bernard Lovell.

Marx, Siegfried, and Werner Pfau. *Himmelsfotografie mit Schmidt-Teleskopen*. Berlin, New York, Springer-Verlag, 1990. 167 p. illus., ports.

In addition to a brief review of the history of reflectors in general and Schmidt telescopes in particular, includes a section on the life and work of Bernhard Schmidt.

Monsignore Fossi, Bruna C. *Le comete nella storia*. Testo della conferenza tenuta il 15 novembre 1985 presso la Biblioteca comunale di Terranuova Bracciolini. Trascrizione della registrazione magnetica e adattamento a cura di Carlo Fabbri. [Terranuova Bracciolini?] 1986. 69 p. illus. (Quaderni della Biblioteca, 16)

Philipp Matthäus Hahn, 1739-1790. Ausstellungen des Württembergischen Landesmuseums Stuttgart und der Städte Ostfildern, Albstadt, Kornwestheim, Leinfelden-Echterdingen. Stuttgart, Württembergisches Landesmuseum Stuttgart, 1989. 2 v. illus. (part col.), facsimis. (part col.), maps (part col.), ports. (Quellen und Schriften zu Philipp Matthäus Hahn, Bd. 6-7)  
Contents: T. 1. Katalog.--T. 2. Aufsätze.

Rosenthal, Franz. *Science and medicine in Islam*, a collection of essays. Aldershot, Hants., Variorum; Brookfield, Vt., Gower Pub. Co., 1990. xxviii, [208] p. (Collected studies series, CS330)

Partial contents: Al-Asturlâbî and as-Samaw'al on scientific progress (1950).--Al-Kindî and Ptolemy (1956).

Russo, Francois. *L'explication des mouvements des planètes des Grecs à Kepler*. Paris, Belin, 1990. 273 p. illus. (Cahiers d'histoire & de philosophie des sciences, nouv. sér., no 30)

Schielicke, Reinhard. *Astronomie in Jena; historische Streifzüge von den mittelalterlichen Sonnenuhren zum Universarium*. Jena, Jena-Information, 1988. 96 p. illus., ports.

Includes a chapter on the history of the Zeiss planetarium.

Standing on the shoulders of giants: a longer view of Newton and Halley. Essays commemorating the tercentenary of Newton's *Principia* and the 1985-1986 return of Comet Halley. Edited by Norman J. W. Thrower. Berkeley, University of California Press, 1990. xxvi, 429 p. illus., facsimis., maps, ports.

Based on a conference held at the William Andrews Clark Memorial Library of the University of California, Los Angeles, Aug. 11-14, 1985.

Contents: pt. 1. Newton and Halley. Westfall, R. S., and G. Funk. Newton, Halley, and the system of patronage. Howse, D. Newton, Halley, and the Royal Observatory.--pt. 2. Newton. Dubrin, D. "Such an impertinently litigious lady": Hooke's "great pretending" vs. Newton's *Principia* and Newton's and Halley's theory of comets. Cohen, I. B. Halley's two essays on Newton's *Principia*. Force, J. E. Newton's "sleeping argument" and the Newtonian synthesis of science and religion. Dobbs, B. J. T. Newton as alchemist and theologian.--pt. 3. Halley. Van Helden, A. Halley and the dimensions of the solar system. Cook, A. H. Halley, surveyor and military engineer: Istria, 1703. Waters, D. W. Captain Edmond Halley, F.R.S., Royal Navy, and the practice of navigation. Thrower, N. J. W. The royal patrons of Edmond Halley, with special reference to his maps. Albury, W. R. Halley and the barometer.--pt. 4. Comets. Stephenson, F. R. The ancient history of Halley's Comet. Schaffer, S. Halley, Delisle, and the making of the comet. Genuth, S. S. Newton and the ongoing teleological role of comets. Forbes, E. G. The comet of 1680-1681. Hughes, D. W. Edmond Halley: his interest in comets. Waff, C. B. The first International Halley Watch: guiding the worldwide search for Comet Halley, 1755-1759.

Sundman, Anita. *Den befriade himlen*; ett porträtt av Knut Lundmark. Stockholm, Carlssons, 1988. 155 p. ports.

Swift, David W. *SETI pioneers; scientists talk about their search for extraterrestrial intelligence*. Tucson, University of Arizona Press, 1990. 434 p. ports.

Astronomers and astrophysicists are among the 17 scientists interviewed.

Tatarewicz, Joseph N. *Space technology & planetary astronomy*. Bloomington, Indiana University Press, 1990. xvi, 190 p. illus., ports.

Thoren, Victor E. *The lord of Uraniborg; a biography of Tycho Brahe*. With contributions by John R. Christianson. Cambridge, New York, Cambridge University Press, 1990. 523 p. illus., maps, port.

Verdet, Jean P. *Une histoire de l'astronomie*. Paris, Éditions du Seuil, 1990. 380 p. illus. (Points: sciences, 62)

Wali, Kameswar C. *Chandra; a biography of S. Chandrasekhar*. Chicago, University of Chicago Press, 1991. 341 p. ports.

Zinner, Ernst. *Regiomontanus: his life and work*. Translated by Ezra Brown. Amsterdam, New York, North-Holland, 1990. 402 p. (Studies in the history and philosophy of mathematics, v. 1)

In addition to the translation of Zinner's *Leben und Wirken des Joh. Müller von Königsberg, genannt Regiomontanus* (1968), the following papers are included: Kaunzner, W. Introduction to the supplements.--Mett, R. From Königsberg to Rome.--Wussing, H. Regiomontanus and Leipzig.--Schmeidler, F. Supplements to Zinner's book, *Leben und Wirken des Johannes Müller von Königsberg, genannt Regiomontanus*.--Gerl, A. The

most recent results of research on Regiomontanus.--Reich, K. Problems of calendar reform from Regiomontanus to the present.--Folkerts, M. New results on the mathematical activity of Regiomontanus.--Kaunzner, W. On Regiomontanus's arithmetic and algebra in *De Triangulis Omnimodis Libri Quinque* and in MS Cent V app 56c of the Nuremberg City Library.--Supplementary literature on Regiomontanus.--Works on Regiomontanus published in the USSR or written by Soviet scholars.--Conferences commemorating anniversaries of Regiomontanus's birth or death.

#### Articles

Abstracts of papers presented at the history of astronomy sessions of the Astronomical Society of the Pacific summer meeting at Boston University, 16-18 July 1990. In *Astronomical Society of the Pacific. Publications*, v. 102, Nov. 1990: 1336-1338.

Presents abstracts of seven papers, cited below. The 3d and 4th were poster displays.

Contents: Eisberg, J. Eddington's stellar models.--Marsden, B. G. Comets, asteroids, and their orbits: central issues in the astronomy of two-hundred years ago.--Milone, E. F., and D. H. Kelley. Resource material for the teaching of ancient astronomy.--Salvador, F., and A. Aparicio. The astronomy and astrology of Isidore of Seville.--Tenn, J. S. David Gill: the education of an astronomer.--Waldee, S. R., and M. R. Hazen. The discovery and early photographs of the Horsehead Nebula.--Welther, B. L. Globular clusters: the heart of Shapley's universe.

Alves, Isidoro M. da Silva. A constituição de uma etnoastronomia no Brasil. In *Congresso Latino-Americanco de História da Ciência e da Tecnologia*, 2d, São Paulo, 1988. Anais. Organizador Ubiratan D'Ambrosio. São Paulo, Nova Stella, 1989. p. 261-266.

Ancient people and their environments. *Earth science*, v. 43, fall 1990: 9-10. illus.

"Research by a University of Colorado scientist [J. McKim Malville] indicates wandering bands of Anasazi astronomers may have traveled throughout the Southwest centuries ago, using their knowledge of the heavens to shape ceremonies, towns and cultures."

Andersen, Hemming. Ole Rømer instruments copied. *Bulletin of the Scientific Instrument Society*, no. 25, 1990: 13-14. illus.

Copies of two instruments, a planetarium and an eclipsareon, are now on display at the Ole Rømer Museum near Copenhagen, "where they may be examined closely from all sides as well as operated by visitors." Rømer's jovilabé, known only from old illustrations and descriptions, has also been reconstructed.

Aveni, Anthony F., and Helaine Silverman. Between the lines: reading the Nazca markings as rituals writ large. *Sciences*, v. 31, July/Aug. 1991: 36-42. illus.

"... a new look at the geometry of the lines has cast doubt on the astronomical interpretation."

Babović, V. M., D. M. Davidović, and B. A. Aničin. The Doppler interpretation of Rømer's method [for determining the speed of light]. *American Journal of Physics*, v. 59, June 1991: 515-519. illus.

Barbiero, Flavio. Numeri sacri e cicli cosmici. *Rivista marittima*, anno 123, febbr. 1990: 105-108.

Bari, Hubert, and Jean J. Schwien. La météorite d'Ensisheim, légendes et réalisées. In *Société industrielle de Mulhouse. Bulletin*, no 798, 1985: 57-64. illus. (part col.), port.

"Cet article reprend celui publié par Hubert BARI en octobre 1984 dans la revue 'Minéraux et fossiles', n° 112. Il a été complété par J. J. SCHWIEN d'un paragraphe sur les suites de la campagne publicitaire de Sébastien Brant et d'une annexe bibliographique."

Contents: 1. La chute de la météorite d'Ensisheim.--2. Utilisation politique du phénomène d'Ensisheim.--3. Les suites de la campagne publicitaire.--4. Les aventures de la météorite d'Ensisheim, de la Révolution Française à nos jours!--5. La météorite d'Ensisheim et la science.

An annexe on p. 64 lists, in chronological order, 29 works that mention the meteorite. The color illustrations face p. 64.

Barr, E. Scott. Sir John Frederick William Herschel (1792-1871). *Optics & photonics news*, v. 1, May 1990: 23-29. illus., port.

Bartha, Lajos. Ein Renaissance-Himmelsglobus als astronomisches Instrument: der Dorn-Bylica-Globus aus dem Jahr 1480. In *Der Globusfreund*. Nr. 38/39, 1990/91. Wien, Internationale Coronelli-Gesellschaft, 1990. p. 37-44. plate.

English translation: p. 42-44. The plate (no. 7) is bound at the end of the issue.

Batten, Alan A. Argelander and the Bonner Durchmusterung. In *Royal Astronomical Society of Canada. Journal*, v. 85, Feb. 1991: 43-50. illus., ports.

Baudez, Claude F. Archaeoastronomy at Copan, an appraisal. In *Indiana, Beiträge zur Völker- und Altertumskunde, Sprachen-, Sozial- und Geschichtsforschung des indianischen Lateinamerica*. Bd. 11; 1987. Berlin, Ibero-Amerikanisches Institut Preußischer Kulturbesitz, 1988. p. 63-71. illus.

Baum, Richard. Mr. Ferguson's star. In *British Astronomical Association, London. Journal*, v. 100, Dec. 1990: 292; v. 101, Feb. 1991: 38.

Contents: pt. 1. The enigma of 'k'.--pt. 2. The record of the wires.

Bauval, Robert G. Investigation on the origins of the Benben stone: was it an iron meteorite? *Discussions in Egyptology*, no. 14, [May?] 1989: 5-16. illus.

Bauval, Robert G. A master-plan for the three pyramids of Giza based on the configuration of the three stars of the belt of Orion. *Discussions in Egyptology*, no. 13, [Jan.?] 1989: 6-18. illus.

Bauval, Robert G. The setting of the star-gods: a fertility rite inside Cheops's pyramid? *Discussions in Egyptology*, no. 16, [Jan.?] 1990: 21-28. illus.

Examines the astronomical setting of shafts in the pyramid of Cheops.

Beech, Martin. Millet's shooting stars. In *Royal Astronomical Society of Canada. Journal*, v. 82, Dec. 1988: 349-358. illus.

Beech, Martin. Thomas Hardy: far from the Royal Observatory, Greenwich? Observatory, v. 110, Dec. 1990: 185-187.

Beech, Martin. William Frederick Denning: in quest of meteors. In *Royal Astronomical Society of Canada. Journal*, v. 84, Dec. 1990: 383-396. facsim., port.

- Bensaude-Vincent, Bernadette. L'astronomie populaire [de Comte], priorité philosophique et projet politique. *Revue de synthèse*, t. 112, janv./mars 1991: 49-59.
- Bergmann, Werner. Easter and the calendar; the mathematics of determining a formula for the Easter festival to medieval computing. *Zeitschrift für allgemeine Wissenschaftstheorie*, v. 22, no. 1, 1991: 15-41.
- Bidelman, William P. A funny thing happened on the way to the Stanford Press: reminiscences of five years [1956-61] with the P.A.S.P. *Mercury*, v. 20, Jan./Feb. 1991: 23-25. illus., ports.
- Bleyer, Ulrich, and Rainer Schimming. Edwin Powell Hubble und das Hubble-Gesetz; zum 100. Geburtstag des grossen Astronomen. *Wissenschaft und Fortschritt*, 40. Jahrg., Heft 1, 1990: 18-20. illus. (part col.), port. Some illustrations appear on the outside back cover of the issue.
- Boksenberg, Alec. The Royal Greenwich Observatory. *Astronomy now*, v. 4, Nov. 1990: 16-18, 20. illus. (part col.)
- Bollack, Jean. La cosmologie parméniéenne de Parménide. In *Herméneutique et ontologie. Mélanges en hommage à Pierre Aubenque. Phronimos anér*. Publié sous la direction de Rémi Brague et Jean-François Courtine. Paris, Presses universitaires de France, 1990. p. 17-53. illus.
- Bolles, David. The Mayan calendar: the solar-agricultural year, and correlation questions. *Mexicon*, v. 12, Sept. 1990: 85-89.
- Borst, Arno. Computus: Zeit und Zahl im Mittelalter. *Deutsches Archiv für Erforschung des Mittelalters*, 44. Jahrg., Heft 1, 1988: 1-82.
- Brachner, Alto. Die Abteilung Optik im Deutschen Museum. *Sterne und Weltraum*, 30. Jahrg., Jan. 1991: 20-25. illus. (part col.)
- Brack-Bernsen, Lis. On the Babylonian lunar theory: a construction of column ♄ from horizontal observations. *Centaurus*, v. 33, no. 1, 1990: 39-56. illus.
- Brague, Rémi. Le géocentrisme comme humiliation de l'homme. In *Herméneutique et ontologie. Mélanges en hommage à Pierre Aubenque. Phronimos anér*. Publié sous la direction de Rémi Brague et Jean-François Courtine. Paris, Presses universitaires de France, 1990. p. 203-223.
- Braswell, Laurel. The moon and medicine in Chaucer's time. In *Studies in the age of Chaucer*. v. 8; 1986. New Chaucer Society, University of Tennessee. p. 145-156.
- Brereton, Joel P. Cosmographic images in the Bṛhadāraṇyaka Upaniṣad. *Indo-Iranian journal*, v. 34, Jan. 1991: 1-17. illus.
- Britton, John P. A tale of two cycles: remarks on column ♄. *Centaurus*, v. 33, no. 1, 1990: 57-69.
- Brooks, Randall C. Methods of fabrication of fiducial lines for 17th-19th century micrometers. *Bulletin of the Scientific Instrument Society*, no. 23, 1989: 11-14. illus.
- Brosche, Peter. F. X. von Zach (Pest 1854-Paris 1932) [sic]: the go-between linking empiricism and theory, heaven and earth. In *International Congress on the Enlightenment, 7th, Budapest, 1987. Transactions*. 2. Oxford, Voltaire Foundation at the Taylor Institution, 1989. (Studies on Voltaire and the eighteenth century, 264) p. 822-824.

- Brosche, Peter. Konjunktionen: Briefe Franz Xaver von Zachs. In *Gauss-Gesellschaft. Mitteilungen*. Nr. 27. Göttingen, 1990. p. 2-27. illus., facsim., ports.
- Bullard, Melissa M. The inward zodiac: a development in Ficino's thought on astrology. *Renaissance quarterly*, v. 43, winter 1990: 687-708.
- Butler, Orville. From local to national: time standardization as a reflection of American culture. In *Beyond history of science; essays in honor of Robert E. Schofield*. Edited by Elizabeth Garber. Bethlehem, Lehigh University Press, 1990. p. 249-265.
- Carboni, Stefano. Two fragments of a Jalayirid astrological treatise in the Keir Collection and in the Oriental Institute in Sarajevo. In *Islamic art; an annual dedicated to the art and culture of the Muslim world*. 2; 1987. Genova, Bruschettini Foundation for Islamic and Asian Art; New York, Islamic Art Foundation. p. 149-186. illus.
- Castagnola, Raffaella. Un oroscopo per Cosimo I. In *Rinascimento, rivista dell'Istituto nazionale di studi sul Rinascimento*. 2. ser., v. 29. Firenze, L. S. Olschki, 1989. p. 125-189. facsim.
- Cayrel, Roger. La vie et l'œuvre de Bengt Strömgren. *Comptes rendus de l'Academie des sciences: La vie des sciences*, t. 6, numéro annuel 1989: 609-610.
- Chaldecott, John A. Printed ephemera of some 19th-century instrument makers. In *International Union of the History and Philosophy of Science. Scientific Instruments Commission. Symposium, 7th, Paris, 1987. Studies in the history of scientific instruments. Papers ... London*, Rogers Turner Books for the Centre de recherche en histoire des sciences et des techniques de la Cité des sciences et de l'industrie, Paris, 1989. p. 159-168. illus. From the Airy Papers in the collections of the Royal Greenwich Observatory, now in the library of Cambridge University.
- Chang, Chia-feng, and I-neng Huang. Chung-kuo ku tai t'ien wen tui cheng chih ti ying hsiang-i Han hsiang Chai Fang-chin tsu sha wei li. [Politics under the influence of astronomy in ancient China: a case study on the suicide of the Han prime minister Chai Fangchin] *Ch'ing-hua hsüeh pao. Tsinghua journal of Chinese studies*, new ser., v. 20, Dec. 1990: 361-378. Abstract in English: p. 378.
- Chapman, Allan. George Graham and the concept of standard accuracies in instrumentation. *Bulletin of the Scientific Instrument Society*, no. 27, 1990: 3-8. illus., port.
- Chapman-Rietschi, P. A. L. Pre-telescopic astronomy: invisible 'planets' Rahu and Ketu. In *Royal Astronomical Society. Quarterly journal*, v. 32, Mar. 1991: 53-55.
- Chaudhary, Bishwanath, and Parmeshwar Jha. Studies of Bhāskara's works in Mithila. *Ganita-bhāratī*, v. 12, no. 1/2, 1990: 27-32.
- Cholova, Tsvetana. Sistema na sveta. Kosmologisata i fizikata v srednovekovna Būlgaria. In her *Estestvenonauchnite znanifa v srednovekovna Būlgaria. Sofiya, Izd-vo na Būgarskata akademija na naukite*, 1988. p. 107-195. Summary in French: p. 392-394.
- Clausnitzer, Lutz. Ernst Wilhelm Leberecht Tempel (1821-1889): der Streit um den Plejadennebel. *Wissenschaft und Fortschritt*, 40. Jahrg., Heft 6, 1990: 141-143. illus. (part col.), ports. Additional illustrations appear on the outside back cover of the issue.

Cohen, Sheldon M., and Paul Burke. New evidence for the dating of Aristotle *Meteorologica* 1-3. Classical philology, v. 85, Apr. 1990: 126-129.  
Based on an investigation of conjunctions of Jupiter with one of the brighter stars in Gemini.

Corcoran, Donald, and Friedl Corcoran. The restoration of an early Japanese [celestial] globe. In *Der Globusfreund*. Nr. 38/39; 1990/91. Wien, Internationale Coronelli-Gesellschaft, 1990. p. 167-171. col. plate.  
The plate (no. 36) is bound at the end of the issue.

Crespo, Samyra B. S. Passagem do planeta Vênus em 1882/ciência e cultura no Brasil ao final do séc. XIX (uma proposta de estudo em história social de ciência). In *Congresso Latino-Americano de Historia da Ciência e da Tecnologia*, 2d, São Paulo, 1988. Anais. Organizador Ubiratan D'Ambrosio. São Paulo, Nova Stella, 1989. p. 500-504.

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An appendix provides Aymara and Quechua terms for various astronomical objects and phenomena.

Ruth Reports: "The enclosed list comes with lots of apologies...to HAD member Katalin Barlai for misspelling her name in the last list; and to all concerned for overlooking, until now, several 1988 issues of the *Journal* of the Royal Astronomical Society of Canada. You may also notice from the citations that are missing from the present list that I haven't been out to the Naval Observatory library for quite a while."