

# David A. King

## Publications, works in press, works ready for publication, and works in progress

August, 2007

**Notes:** Titles of books are printed bold; titles of reviews other than essay reviews are in small font. Titles of works which may be of particular interest or importance (and which have not since appeared in reprints or improved versions) are boxed. References of the form X-n show that an article has been reprinted as no. n in vol. X of the three Variorum volumes:

- |          |  |                              |
|----------|--|------------------------------|
| <b>A</b> | <i>Islamic Mathematical Astronomy</i>    | (1986/1993, see nos. 79/132) |
| <b>B</b> | <i>Islamic Astronomical Instruments</i>  | (1987/1995, see nos. 87/163) |
| <b>C</b> | <i>Astronomy in the Service of Islam</i> | (1993, see no. 131)          |

Some other works are available in new versions in:

- |                     |  |                            |
|---------------------|--|----------------------------|
| <b><i>SATMI</i></b> | <i>Studies in Astronomical Timekeeping in Medieval Islam</i> | (2004/5, see nos. 230-231) |
|---------------------|--|----------------------------|

The signs + and ++ indicate that the work in question was translated by Kurt Maier or Wolf-Dieter Wagner, respectively. An asterisk is used for further works not in English that were translated by others. X indicates a work in press, Y a work still in preparation.

## 1972

- 1 “The Astronomical Works of Ibn Yûnus”, Ph.D. dissertation, Yale University, Department of Near Eastern Languages and Literatures, 1972. [Available from ProQuest.com (formerly University Microfilms, Ann Arbor, Mich.), no. 7229740.]
- 2 “The ‘Abd al-A’imma Astrolabe Forgeries” (with Owen Gingerich & George Saliba), *Journal for the History of Astronomy* 3 (1972), pp. 188-198, repr. in **B-VI**.

## 1973

- 3 “al-Khalîfî’s Auxiliary Tables for Solving Problems of Spherical Astronomy”, *Journal for the History of Astronomy* 4 (1973), pp. 99-110, repr. in **A-XI**. [See now **SATMI, I-II**.]
- 4 “Ibn Yûnus’ *Very Useful Tables* for Reckoning Time by the Sun”, *Archive for History of Exact Science* 10 (1973), pp. 342-394, repr. in **A-IX**. [See now **SATMI, I-II**.]
- 5 A review of Bernard R. Goldstein, *al-Bitrûjî: On the Principles of Astronomy*, New Haven, Conn., & London, 1971, in *Journal of the American Oriental Society* 93 (1973), pp. 566-567.
- 6 A review of Ahmed Saidan, *Arabic Arithmetic: The Arithmetic of Abû al-Wafâ’ al-Bûzajânî* [in Arabic], Amman, n.d. [1972?], in *ISIS* 64 (1973), pp. 123-125.

## 1974

- 7 “A Double-Argument Table for the Lunar Equation Attributed to Ibn Yûnus”, *Centaurus* 18 (1974), pp. 129-146, repr. in **A-V**.
- 8 “On Medieval Islamic Multiplication Tables”, *Historia Mathematica* 1 (1974), pp. 317-323, repr. in **A-XIV**. [See no. 32.]
- 9 “Smithsonian Institution Project in Medieval Islamic Astronomy”, *Historia Mathematica* 1 (1974), pp. 183-184.
- 10 “An Analog Computer for Solving Problems of Spherical Astronomy: The *Shakkâzîya* Quadrant of Jamâl al-Dîn al-Mâridînî”, *Archives Internationales d’Histoire des Sciences* 24 (1974), pp. 219-242, repr. in **B-X**.
- 11 A review of Edward S. Kennedy & David Pingree, *The Astrological History of Mâshâ’-allâh*, Cambridge, Mass., 1971, in *Journal of Near Eastern Studies* 33 (1974), pp. 158-160.
- 12 A review of Edward S. Kennedy, *A Commentary upon al-Bîrûnî’s Tahdîd [nihâyât] al-amâkin*, Beirut, 1973, in *Centaurus* 19 (1974), pp. 320-323.

## 1975

- 13 “al-Khalîfî’s Qibla Table”, *Journal of Near Eastern Studies* 34 (1975), pp. 81-122, repr. in **A-XIII**.
- 14 “On the Astronomical Tables of the Islamic Middle Ages”, *Studia Copernicana* 13 (1975), pp. 37-56, repr. in **A-II**.
- 15 “Astronomical Timekeeping (*‘ilm al-mîqât*) in Medieval Islam”, *Actes du XXIX<sup>e</sup> Congrès International des Orientalistes*, Paris: L’Asia thèque, 1975, II:2, pp. 86-90.

- 16 “Ibn al-Shâtir” in *Dictionary of Scientific Biography*, vol. XII, New York: Charles Scribner’s Sons, 1975, pp. 357-364.
- 17 “Medieval Mechanical Devices”, an essay review of Donald R. Hill, *The Book of Knowledge of Ingenious Mechanical Devices*, Dordrecht & Boston, Mass., 1974, *History of Science* 13 (1975), pp. 284-289, repr. in **B-XX**.

## 1976

- 18 “Ibn Yûnus” in *Dictionary of Scientific Biography*, vol. XIV, New York: Charles Scribner’s Sons, 1976, pp. 574-580.
- 19 A review of Saleh Ahmed & Rushdi Rashed, *Al-Bahir en algèbre d’as-Samaw’al*, Damascus, 1972, in *ISIS* 67 (1976), pp. 307-308.

## 1977

- 20 “A Fourteenth-Century Tunisian Sundial for Regulating the Times of Muslim Prayer”, in Walter G. Saltzer & Yasukatsu Maeyama, eds., *PRISMATA: Naturwissenschaftsgeschichtliche Studien – Festschrift für Willy Hartner*, Wiesbaden: Franz Steiner, 1977, pp. 187-202, repr. in **B-XVIII**. [See now *SATMI*, **IV**.]
- 21 “Ibn al-Shâtir’s *Sandûq al-Yawâqût*: An Astronomical Compendium” (with Louis Janin), *Journal for the History of Arabic Science* 1 (1977), pp. 187-256, repr. in **B-XII**.
- 22 A review of Bernard R. Goldstein, *The Astronomical Tables of Levi ben Gerson*, Hamden, Conn., 1974, in *ISIS* 68 (1977), pp. 476-477.
- 23 A review of Donald R. Hill, *On the Construction of Water-Clocks; Kitab Arshimidas fi ‘amal al-binkamat*, London, 1976, in *History of Science* 15 (1977), pp. 295-298, repr. in **B-XXI**.

## 1978

- 24 “Astronomical Timekeeping in Fourteenth-Century Syria”, *Proceedings of the First International Symposium for the History of Arabic Science (Aleppo, 1976)*, 2 vols., Aleppo: Institute for the History of Arabic Science, 1978, I, pp. 391-415 (Arabic), and II, pp. 75-84 (English), repr. in **A-X**. [See now *SATMI*, **I-II**.]
- 25 *Project in Medieval Islamic Astronomy – A Progress Report with Bibliography*, Cairo: American Research Center in Egypt (Project Report No. 1), Jan. 1978.
- 26 “Three Sundials from Islamic Andalusia”, *Journal for the History of Arabic Science* 2 (1978), pp. 358-392, repr. in **B-XV**.
- 27 “Notes on the Astrolabist Nastûlus/Bastûlus”, *Archives Internationales d’Histoire des Sciences* 28 (1978), pp. 115-118, repr. in **B-IV**. [See no. 63.]
- 28 “Le cadran solaire de la mosquée d’Ibn Tûlûn au Caire” (with Louis Janin), *Journal for the History of Arabic Science* 2 (1978), pp. 331-357, repr. in **B-XVI**.
- 29 “al-Khalîf” in *Dictionary of Scientific Biography*, vol. XV, Supp. I, New York: Charles Scribner’s Sons, 1978, pp. 259-261.
- 30a/b “Islamic Mathematics and Astronomy”, an essay review of the chapters on astronomy and mathematics in Seyyed Hossein Nasr, *Islamic Science: An Illustrated Study*,

London, 1976, in *Journal for the History of Astronomy* 9 (1978), pp. 212-219, repr. in *Bibliotheca Orientalis* 35 (1978), pp. 339-343, repr. in **A-XVII**.

## 1979

- 31 “Report on a Field-Trip to India, September-October, 1978”, *Newsletter of the American Research Center in Egypt*, no. 108 (Spring, 1979), pp. 21-24.
- 32 “Supplementary Notes on Medieval Islamic Multiplication Tables”, *Historia Mathematica* 6 (1979), pp. 405-417, repr. in **A-XV**. [A supplement to no. 8.]
- 33 “On the Early History of the Universal Astrolabe in Islamic Astronomy and the Origin of the Term *Shakkâzîya* in Medieval Scientific Arabic”, *Journal for the History of Arabic Science* 3 (1979), pp. 244-257, repr. in **B-VII**.
- 34 “Ibn Yûnus and the Pendulum: A History of Errors”, *Archives Internationales d’Histoire des Sciences* 29 (1979), pp. 35-52, repr. in **B-XIX (abridged)**.
- 35 “Mathematical Astronomy in Medieval Yemen”, *Arabian Studies* 5 (1979), pp. 61-65, repr. in **A-IV**. [See no. 58.]
- 36 “Astronomical Timekeeping in Ottoman Turkey”, *Proceedings of the International Symposium on the Observatories in Islam, 19-23 Sept., 1977*, Istanbul: Millî Egitim Basimevi, 1980, pp. 245-269, repr. in **A-XII**.
- 37 “A Classification of Islamic Astronomical Literature and the Present State of Research on the Manuscript Sources”, *Proceedings of the International Symposium on the Observatories in Islam, 19-23 Sept., 1977*, Istanbul: Millî Egitim Basimevi, 1980, pp. 169-180.
- 38 “The Sundial on the West Wall of the Madrasa of Sultan Qaytbay in Jerusalem” (with Archibald G. Walls), *art and architecture research papers* 15 (July, 1979), pp. 16-21, repr. in **B-XVII**.
- 39 “Kibla. ii. Astronomical aspects” [sacred direction], in *The Encyclopaedia of Islam*, new edition, vol. V, fascs. 79-80, Leiden: E. J. Brill, 1979, pp. 83-88, repr. in **C-IX**.
- 40 “On the Sources for the Study of Early Islamic Mathematics”, an essay review of Fuat Sezgin, *Geschichte des arabischen Schrifttums*, V: Mathematik, Leiden: E. J. Brill, 1974, in *Journal of the American Oriental Society* 99 (1979), pp. 450-459.
- 41 A review of Ali Abdallah Daffa, *The Muslim Contribution to Mathematics*, London & Atlantic Highlands, N.J., 1977, in *History of Science* 17 (1979), pp. 295-296, repr. in **A-XVIII**.
- 42 A review of William Brice, Colin Imber & Richard Lorch, *The Dâ’ire-yi Mu’addel of Seydî Alî Re’îs*, Manchester, 1976, in *Journal for the History of Astronomy* 10 (1979), pp. 51-53, repr. in **B-XIII**.

## 1980

- 43 “New Light on the *Zîj al-Safâ’ih* of Abû Ja’far al-Khâzin”, *Centaurus* 23 (1980), pp. 105-117, repr. in **B-XI**.
- 44 “The Exact Sciences in Medieval Islam: Some Remarks on the Present State of Research”, *Bulletin of the Middle East Studies Association of North America* 4 (1980), pp. 10-26, repr. in **A-I (abridged)**.

- 45 “A Handlist of the Arabic and Persian Astronomical Manuscripts in the Maharaja Mansingh II Library in Jaipur”, *Journal for the History of Arabic Science* 4 (1980), pp. 81-86, repr. in **A-XVI**.
- 46 “Ibn al-Majdī’s Tables for Calculating Ephemerides” (with E. S. Kennedy), *Journal for the History of Arabic Science* 4 (1980), pp. 48-68, repr. in **A-VI**.

## 1981

- 47 *A Catalogue of the Scientific Manuscripts in the Egyptian National Library [in Arabic], vol. 1: A critical handlist of the scientific collections – Indexes of copyists and owners*, Cairo: General Egyptian Book Organization, 1981. [See nos. 77 and 78.]
- 48 “On the Origin of the Astrolabe According to the Medieval Arabic Sources”, *Journal for the History of Arabic Science* 5 (1981), pp. 43-83, repr. in **B-III** and **SATMI, XIIIe**.
- 49 “Early Islamic Astronomy”, an essay review of Fuat Sezgin, *Geschichte des arabischen Schrifttums*, VI: Astronomie, Leiden: E. J. Brill, 1978, in *Journal for the History of Astronomy* 12 (1981), pp. 55-59.
- 50 A review of Kenneth Brecher & Michael Feirtag, eds., *Astronomy of the Ancients*, Cambridge, Mass., 1979, in *Technology and Culture* 22 (1981), pp. 300-301.

## 1982

- 51 “On the Astronomical Orientation of the Kaaba” (with Gerald S. Hawkins), *Journal for the History of Astronomy* 13 (1982), pp. 102-109, repr. in **C-XII**.
- 52 “Some Astronomical Observations from Thirteenth-Century Egypt” (with Owen Gingerich), *Journal for the History of Astronomy* 13 (1982), pp. 121-128, repr. in **A-VII**.
- 53 “Astronomical Alignments in Medieval Islamic Religious Architecture”, *Annals of the New York Academy of Sciences* 385 (1982), pp. 303-312, repr. in **C-XIII**.
- 54 “Faces of the Kaaba”, *The Sciences* (The New York Academy of Sciences) 22:5 (May/June, 1982), pp. 16-20, and 22:6 (September, 1982), p. 2.
- 55 “Willy Hartner, Ibn Yûnus and the Meridian Degree”, *Centaurus* 26 (1982), pp. 218-219.
- 56 “Indian Astronomy in Fourteenth-Century Fez: The Versified *Zīj* of al-Qusuntûnī” (with E. S. Kennedy), *Journal for the History of Arabic Science* 6 (1982), pp. 3-45, repr. in **A-VIII**.
- 57 A review of Emilie Savage-Smith & M. B. Smith, *Islamic Geomancy and a Thirteenth-Century Divinatory Device*, Malibu, Ca.: Undena, 1980, in *Archaeoastronomy – The Bulletin of the Center for Archaeoastronomy* (College Park, Md.) 5 (1982), pp. 42-43, repr. in **B-XXII**.

## 1983

- 58 *Mathematical Astronomy in Medieval Yemen – A Bio-Bibliographical Survey*, (Publications of the American Research Center in Egypt), Malibu, Ca.: Undena, 1983.

- 59 **E. S. Kennedy, Colleagues and Former Students, *Studies in the Islamic Exact Sciences*, Beirut: American University of Beirut, 1983 (co-editor with Mary Helen Kennedy).**
- 60 “A Report on the Azhar Manuscript Library”, *Newsletter of the American Research Center in Egypt*, no. 122 (Summer, 1983), pp. 41-50.
- 61 “The Astronomy of the Mamluks”, *ISIS* 74 (1983), pp. 531-555, repr. in **A-III**.
- 62 “al-Khwârizmî and New Trends in Mathematical Astronomy in the Ninth Century”, *Occasional Papers on the Near East* (New York University, Hagop Kevorkian Center for Near Eastern Studies) 2 (1983).
- 63 “Nastûlus the Astrolabist Once Again” (with Paul Kunitzsch), *Archives Internationales d’Histoire des Sciences* 33 (1983), pp. 342-343, repr. in **B-V**. [See no. 27.]
- 64 “Mathematical Astronomy in Medieval Yemen”, in R. B. Serjeant & Ronald Lewcock, eds., *San’â’: An Arabian Islamic City*, London: World of Islam Festival Trust, 1983, pp. 34-35.
- 65 “Al-Bazdawî on the Qibla in Early Islamic Transoxania”, *Journal for the History of Arabic Science* 7 (1983/1986), pp. 3-38.
- 66 A review of Heinrich Suter, *Die Mathematiker und Astronomen der Araber und ihre Werke*, Amsterdam: Oriental Press, 1982 reprint, in *Journal for the History of Astronomy* 14 (1983), pp. 62-63.

## 1984

- 67 “The Astronomy of the Mamluks: A Brief Overview”, *Muqarnas* 2 (1984), pp. 73-84.
- 68 “Architecture and Astronomy: The Ventilators of Medieval Cairo and Their Secrets”, *Journal of the American Oriental Society* 104 (1984), pp. 97-133. [A revised version is in **SATMI, VIIIb**.]

## 1985

- 69\* “Five Minor Works of al-Khwârizmî” [in Russian], *Proceedings of the International Conference on Khorezmi, Tashkent and Urgench, 1983*, Tashkent, 1985, pp. 91-95.
- 70 “The Sacred Direction in Islam: A Study of the Interaction of Religion and Science in the Middle Ages”, *Interdisciplinary Science Reviews* 10:4 (1985), pp. 315-328.
- 71 “Osmanische astronomische Handschriften und Instrumente”, in *Türkische Kunst und Kultur aus osmanischer Zeit*, 2 vols., Recklinghausen: Aurel Bongers, 1985, II, pp. 373-378, repr. in **B-XIV**.
- 72 “Astronomy for Landlubbers and Navigators: The Case of the Islamic Middle Ages”, *Revista da Universidade de Coimbra* 32 (1985), pp. 211-223.
- 73 “The Medieval Yemeni Astrolabe in the Metropolitan Museum of Art in New York”, *Zeitschrift für Geschichte der arabisch-islamischen Wissenschaften* 2 (1985), pp. 99-122, and 4 (1987/88), pp. 268-269 (corrections), repr. in **B-II** and **SATMI, XIVa**.
- 74 A review of Paul Kunitzsch, *Glossar der arabischen Fachausdrücke in der mittelalterlichen europäischen Fachliteratur*, Göttingen, 1983, in *ISIS* 76 (1985), p. 435.

- 75 A review of Ahmad Saeed Khan, *A Bibliography of the Works of Abu'l-Raihan al-Biruni*, New Delhi, 1982, in *Ghanita-Bhârati* 7 (1985), pp. 43-44.
- 76 A review of Ali Abdallah Al-Daffa & John S. Stroyls, *Studies in the Exact Sciences in Medieval Islam*, New York, N.Y., 1984, in *Bulletin of the Middle East Association of North America* 19 (1985), pp. 243-245. [Reviewed for Islamicists – see also no. 85.]

## 1986

- 77 ***A Catalogue of the Scientific Manuscripts in the Egyptian National Library [in Arabic], vol. 2: Descriptive catalogue arranged chronologically according to subjects – Indexes of authors and titles, Cairo: General Egyptian Book Organization, 1986.*** [See no. 47.]
- 78 ***A Survey of the Scientific Manuscripts in the Egyptian National Library, (Publications of the American Research Center in Egypt), Winona Lake, Ind.: Eisenbrauns, 1986.*** [Based on nos. 47 and 77, and arranged as a supplement to the standard bio-bibliographical literature.]
- 79 **[A] *Islamic Mathematical Astronomy, London: Variorum, 1986. Contents:***
- I Some Reflections on the History of Islamic Astronomy;
  - II On the Astronomical Tables of the Islamic Middle Ages (no. 14);
  - III The Astronomy of the Mamluks (no. 61);
  - IV Mathematical Astronomy in Medieval Yemen (no. 35);
  - V A Double-Argument Table for the Lunar Equation Attributed to Ibn Yûnus (no. 7);
  - VI Ibn al-Majdi's Tables for Calculating Ephemerides (no. 46);
  - VII Some Astronomical Observations from Thirteenth-Century Egypt (no. 52);
  - VIII Indian Astronomy in Fourteenth-Century Fez: The Versified *Zîj* of al-Qusuntînî (no. 56);
  - IX Ibn Yûnus' *Very Useful Tables* for Reckoning Time by the Sun (no. 4);
  - X Astronomical Timekeeping in Fourteenth-Century Syria (no. 24);
  - XI al-Khalîfî's Auxiliary Tables for Solving Problems of Spherical Astronomy (no. 3);
  - XII Astronomical Timekeeping in Ottoman Turkey (no. 36);
  - XIII al-Khalîfî's *Qibla* Table (no. 13);
  - XIV On Medieval Islamic Multiplication Tables (no. 8);
  - XV Supplementary Notes on Medieval Islamic Multiplication Tables (no. 32);
  - XVI A Handlist of the Arabic and Persian Astronomical Manuscripts in the Maharaja Mansingh II Library in Jaipur (no. 45);
  - XVII Islamic Mathematics and Astronomy. An essay review of the Chapters on mathematics and astronomy in S. H. Nasr, *Islamic Science: An Illustrated Study* (no. 30);
  - XVIII Islamic Mathematics. A review of A. A. Daffa, *The Muslim Contribution to Mathematics* (no. 41);
- Addenda and Corrigenda; Indexes

[See no. 132 for the 2<sup>nd</sup> edn.]

Reviews:

Sonja Brentjes in *Historia Mathematica* 16 (1989), p. 295.

Jan Hogendijk in *Mathematical Reviews* (1989), no. 89e:01053.

F. Jamil Ragep in *Nuncius – Annali di Storia della Scienza* 6 (1991), pp. 211-213.

**80** *From Deferent to Equant: Studies in the History of Science in the Ancient and Medieval Near East in Honor of E. S. Kennedy* (co-editor with George Saliba), *Annals of the New York Academy of Sciences* (500), 1986.

81 “Some Early Islamic Tables for Determining Lunar Crescent Visibility”, in D. A. King & George Saliba, eds., *From Deferent to Equant: Studies in the History of Science in the Ancient and Medieval Near East in Honor of E. S. Kennedy*, *Annals of the New York Academy of Sciences* 500 (1986), pp. 185-225, repr. in **C-II**.

82 “Some Ottoman Schemes of Sacred Geography”, *Proceedings of the II. International Symposium on the History of Turkish and Islamic Science and Technology, Istanbul, 1986*, 2 vols., Istanbul: Istanbul Technical University, 1986, I, pp. 45-57.

83 “The Earliest Islamic Mathematical Methods and Tables for Finding the Direction of Mecca”, *Zeitschrift für Geschichte der arabisch-islamischen Wissenschaften* 3 (1986), pp. 82-149. with corrections listed *ibid.* 4 (1987/88), p. 270, repr. in **C-XIV**.

84 A review of Galina P. Matvievskaya & Boris A. Rosenfeld, *Mathematicians and Astronomers of the Islamic Middle Ages (VIII-XVII Centuries) and their Works* [in Russian], in *Historia Mathematica* 13 (1986), pp. 306-308.

85 A review of Ali Abdallah Al-Daffa & John S. Stroyls, *Studies in the Exact Sciences in Medieval Islam*, New York, N.Y., 1984, in *Historia Mathematica* 13 (1986), pp. 303-306. [Reviewed for historians of mathematics – see also no. 76.]

86 A review of Sharon Gibbs & George Saliba, *Planispheric Astrolabes from the National Museum of American History*, Washington, D.C., 1984, in *ISIS* 77 (1986), pp. 711-713.

## 1987

**87** **[B]** *Islamic Astronomical Instruments*, London: Variorum, 1987. [See no. 163 for a reprint.]

I Astronomical Instrumentation in the Medieval Near East;

II The Medieval Yemeni Astrolabe in the Metropolitan Museum of Art in New York (no. 73);

III The Origin of the Astrolabe according to the Medieval Islamic Sources (no. 48);

IV A Note on the Astrolabist Nastûlus/Bastûlus (no. 27);

V Nastûlus the Astrolabist Once Again (no. 63);

VI The 'Abd al-A'imma Astrolabe Forgeries (no. 2);

VII On the Early History of the Universal Astrolabe in Islamic Astronomy and the Origin of the Term “Shakkâzîya” in Medieval Scientific Arabic (no. 33);

VIII The Astrolabe of 'Alî al-Wadâ'î;

IX The Astronomical Instruments of Ibn al-Sarrâj: A Brief Survey;

X An Analog Computer for Solving Problems of Spherical Astronomy: The *Shakkâzîya* Quadrant of Jamâl al-Dîn al-Mâridîni (no. 10);

XI New Light on the *Zij al-Safâ'ih* of Abû Ja'far al-Khâzin (no. 43);

XII Ibn al-Shâtir's *Sandûq al-Yawâqût*: An Astronomical “Compendium” (no. 21);

- XIII An Islamic Astronomical Instrument: A Review of W. Brice, C. Imber & R. Lorch, *The Dâ'ire-yi Mu'addel of Seydî 'Alî Re'îs* (no. 42);
- XIV Osmanische astronomische Handschriften und Instrumente (no. 71);
- XV Three Sundials from Andalusia (no. 26);
- XVI Le cadran solaire de la mosquée d'Ibn Tûlûn au Caire (no. 28);
- XVII The Sundial on the West Wall of the Madrasa of Sultan Qaytbay in Jerusalem (no. 38);
- XVIII A Fourteenth-Century Tunisian Sundial for Regulating the Times of Muslim Prayer (no. 20);
- XIX Ibn Yûnus and the Pendulum: A History of Errors (no. 34);
- XX Medieval Mechanical Devices: A Review of D. R. Hill, *The Book of Knowledge of Ingenious Mechanical Devices* (no. 17);
- XXI On Arabic Water-Clocks: A Review of D. R. Hill, *On the Construction of Water-Clocks* (no. 23);
- XXII Islamic Geomancy – A Review of E. Savage-Smith & M. B. Smith, *Islamic Geomancy and a Thirteenth-Century Divinatory Device* (no. 57)

Addenda and Corrigenda; Indexes

Reviews:

E. S. Kennedy in *Annals of Science* 45 (1988), pp. 544-545.

Sharon Gibbs Thibodeau in *ISIS* 81 (1990), pp. 101-102.

- 88 “The Astrolabe of ‘Alî al-Wadâ’î” (previously unpublished), in **B-VIII**
- 89 “The Astronomical Instruments of Ibn al-Sarrâj” (previously unpublished), in **B-IX**. [See **SATMI, XIVb-5.1** for a more detailed description.]
- 90 “Science in Medieval Syria”, in Harvey Weiss, ed., *Ebla to Damascus: Art and Archaeology of Ancient Syria*, Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985, pp. 497-507.
- 91 “Universal Solutions in Islamic Astronomy”, in J. Lennart Berggren & Bernard R. Goldstein, eds., *From Ancient Omens to Statistical Mechanics: Essays on the Exact Sciences Presented to Asger Aaboe*, *Acta Historica Scientiarum Naturalium et Medicinalium* (Copenhagen) 39 (1987), pp. 121-132, repr. in **C-VI**. [A revised version is in **SATMI, VIa**.]
- 92\* “Astronomie im mittelalterlichen Yemen”, in Werner Daum, ed., *Jemen*, Innsbruck: Pinguin & Frankfurt am Main: Umschau, 1987, pp. 276-281 and 297-302. [See no. 106 for the original.]
- 93 “Makka. iv. As Centre of the World” [sacred geography], *The Encyclopaedia of Islam*, new edition, vol. VI, fascs. 101-102, Leiden: E. J. Brill, 1987, pp. 180-187, repr. in **C-X**.
- 94 A review of Edward S. Kennedy, David Pingree & Fuad Haddad, *The Book of Reasons behind Astronomical Tables (Kitâb fî 'ilal al-zîjât)* by 'Alî ibn Sulaymân al-Hâshimî, in *Journal for the History of Astronomy* 18 (1987), pp. 284-286.
- 95 A review of Ziva Vesel, *Les encyclopédies persanes: Essai de typologie et de classification des sciences*, Paris, 1986, in *Bulletin of the Middle East Studies Association of North America* 21 (1987), pp. 115-116.

**1988**

- 96 “Universal Solutions to Problems of Spherical Astronomy from Mamluk Egypt and Syria”, in Farhad Kazemi & Robert B. McChesney, eds., *A Way Prepared: Essays on Islamic Culture in Honor of Richard Bayly Winder*, New York: New York University Press, 1988, pp. 153-184, repr in **C-VII**. [A revised version is in **SATMI, VIb**.]
- 97 “A Medieval Account of Algebra before al-Khwârizmî”, *al-Masâq: Studia Arabo-Islamica Mediterranea* 1 (1988), pp. 25-32.
- 98 “Ibn Yûnus on Lunar Crescent Visibility”, *Journal for the History of Astronomy* 19 (1988), pp. 155-168, repr. in **C-III**.
- 99 A review of Charles Pellat, *Cinq calendriers égyptiens*, Cairo, 1986, in *Journal of the American Research Center in Egypt* 25 (1988), pp. 252-253.

## 1989

- 100 “Some Arabic Copies of Vettius Valens’ Table for Calculating the Duration of Life”, in Gerhard Endress, ed., *Symposium Graeco-Arabicum II*, Amsterdam: B. R. Grüner, 1989, pp. 25-28. [See now no. 224.]
- 101 “al-Marrâkushî”, *The Encyclopaedia of Islam*, new edition, vol. VI, fascs. 107-108, Leiden: E. J. Brill, 1989, p. 598.
- 102 “Matla” [rising-points], *The Encyclopaedia of Islam*, new edition, vol. VI, fascs. 111-112, Leiden: E. J. Brill, 1989, pp. 839-840, repr. in **C-XI**.
- 103 “Matâli” [ascensions], *The Encyclopaedia of Islam*, new edition, vol. VI, fascs. 111-112, Leiden: E. J. Brill, 1989, pp. 792-794.
- 104 A review of Anton H. Heinen, *Islamic Cosmology: A Study of as-Suyûtî’s al-Hay’a al-sanîya fi-l-hay’a al-sunnîya*, Beirut, 1982, in *Journal of the American Oriental Society* 109 (1989), pp. 124-127.

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- 105 “An Overview of the Sources for the History of Astronomy in the Medieval Maghrib”, *Actes du 2<sup>e</sup> Colloque Maghrébin de l’Histoire des Mathématiques Arabes*, Tunis, 1-3 Dec. 1988, Tunis: Institut supérieur de l’Éducation et de la Formation continue, n.d. [ca. 1990], pp. 125-157. [See no. 196 for a revised, expanded version.]
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## WORKS CURRENTLY IN PREPARATION

- Y1 *A Catalogue of Medieval Astronomical Instruments (to ca. 1500). 1-5: Eastern Instruments (1: Astrolabes to ca. 1550; 2: Late Astrolabes; 3: Quadrants; 4: Sundials; 5: Miscellaneous); 6-10: European Instruments (to ca. 1550) (6: Astrolabes to ca. 1500; 7: Later astrolabes; 8: Quadrants; 9: Sundials; 10: Miscellaneous).* [See nos. 115, 133 and 154 and the website of no. 207 for descriptions. For the first published sections – astrolabes from 9<sup>th</sup> and 10<sup>th</sup>-century Iraq and Iran – see *SATMI*, XIIIb-c.]
- Y2 *The Universal Astrolabe of Ibn al-Sarrâj – A Medieval Mathematical Jewel (with François Charette).* [See *SATMI*, XIVb-5.1 for a summary.]
- Y3 *The Sacred Geography of Islam*, to be submitted to E. J. Brill, Leiden. [See no. 93 for a summary.]