Scientific Instrument Commission Bibliography 19

Nineteenth bibliography of books, pamphlets, catalogues and articles on or connected with historical scientific instruments - Autumn 2002.

This bibliography contains work published in 2002, which came to the compiler's notice before 3rd October 2002. It also contains earlier publications which came to his notice after completing the eighteenth bibliography in Spring 2002. Publications, or notices of publication (please with ISBN) for forthcoming bibliographies may be sent to the compiler:

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Members of the scientific instrument community are invited to send recent titles, especially of publications that may easily escape the compiler's notice, such as descriptive catalogues, exhibition catalogues and papers published in less widely known journals. To avoid duplication, please note that the compiler peruses some forty journals for relevant titles. These range from journals that focus entirely on historic instrumentation, such as the Bulletin of the Scientific Instrument Society, Rittenhouse, Journal of the Antique Telescope Society and Equilibrium, to more general journals on the history of science, technology and culture. A list of these journals is found in previous bibliographies.


[Introduction followed by catalogue of almost ninety instruments from Louvain masters, mainly Gerard Mercator, Michael Piquer, Gualterius Arsenius, Adrian Descrolières and Adrian Zeelst.]


DAY, Jamie, 'The Barlow Planetarium: A History and Mechanical Analysis', Rittenhouse 55 (2002), 1-13. Manufactured by Thomas Harris Barlow (1789-1865) and his son Milton, and acclaimed in the 1850 and 1860s, very few examples of this large planetarium survive.

DÉBARBAT, Suzanne and LAUNAY, Françoise, 'The Objectives of the 'Great Paris Exhibition Telescope' of 1900', Bulletin of the Scientific Instrument Society 74 (September 2002), 22-23. The largest lenses ever successfully made to equip an astronomical refracting telescope have been rediscovered in a cellar of the Observatoire de Paris.


EMERSON, R.L., 'The Scientific Interests of Archibald Campbell, 1st Earl of Ilay and 3rd Duke of Argyll (1682-1761', Annals of Science 59 (January 2002), 21-56. [Includes detailed discussion of his instruments (few of which survive), machines and toys.]


FOURNIER, Marian, 'Een microscoop van Antoni van Leeuwenhoek', Gewina 25 (2002), nr.1, 70-74. [In 1982, the Museum Boerhaave and the Science Museum held an exhibition on Leeuwenhoek, with nine of his microscopes, three silver, six brass. A fourth silver microscope has since emerged and was acquired by the Museum Boerhaave. It has been measured by Dr Van Zuylent].


HELBING, Mario Otto, 'Una prima illustrazione a stampa del termometro', Nuncius 2001, vol. 2, 523-529. [Paolo Aresi describes and illustrates a thermometer in his commentary on De generatione et corruptione (Milan, 1617), which is very early].

HENTSCHEL, Klaus, 'Spectroscopic Portraiture', Annals of Science 59 (2002), 57-82. [Qualitative work by spectroscopists before 1900, such as Piazzi-Smyth, to prepare for example solar spectrum atlases].


HOSKIN, Michael, 'The Leviathan of Parsontown: ambitions and achievements', *Journal for the History of Astronomy* 33 Part 1 (February 2002), 57-70. [On the large telescope at Birr Castle, Ireland, erected by the third Earl of Rosse and completed in 1845.]

LAMPREY, John P., *Hartmann's Practika, 'A Manual for Making Sundials and Astrolabes by Compass and Rule'* (Bellvue, Colorado, USA: 2002), 312 pages. ISBN 1-931947-00-7. [English. This is the first complete translation into any modern language of Georg Hartmann's (1489-1564) unpublished manuscript, Vin 12768, that resides in the Austrian National Library in Vienna, along with portions of two other Hartmann manuscripts in two other libraries. References, Appendix, Index, 160 figures and illustrations. Copies may be purchased from John Lamprey, P. O. Box 336, Bellvue, Colorado 80512 USA, e-mail: lamprey@frii.com]

LARUE, Budd J., 'John Mayall Jr. and W.H. Dallinger: nineteenth-century microscope collectors and critical microscopists', *Microscopy. Journal of the Quekett Microscopical Club* 36 (1992), 675-691. [Three unpublished letters by Mayall to Dallinger contain evidence of the early trade in antique microscopes and the production of copies or replicas for collections. This article has not been noted in previous SIC bibliographies.]

LINDGREN, Uta, 'Regiomontans Wahl. Nürnberg als Standort angewandter respektive praktischer Mathematik im 15. und beginnenden 16. Jahrhundert', *Anzeiger des Germanischen Nationalmuseum* (Nürnberg, 2002), 49-56. [Yearbook ISIN 1430-5496. Proceedings of a symposium on 'Art and applied arts from Nuremberg for the European market, 1400-1800'. Relevant to instrument historians are some papers on metallurgical analysis and this paper by Lindgren on the state of applied mathematics and instrument manufacture around the time Regiomontanus settled there (1471).]


MARNEY, Patrick, and McCONNELL, Anita, 'Diagonal and Reticulated Barometers', *Antique Collecting* 36 (10) April 2002, 19-23. [Illustrated with pieces from the Science Museum and private collections. This 'horological issue' of *Antique Collecting* also has articles on the watchmakers Nicole, Nielsen & Co. by David Penney, on Renaissance clocks by Richard Garnier and on opera glasses by Frank Barraclough].
MESCHIARI, Alberto, 'Schede tecniche e istruzioni per l'uso di 160 microscopi di Giovanni Battista Amici Parte quarta 1847-1856', *Atti della Fondazione Giorgio Ronchi* Anno LVII, nr. 3 (May-June, 2002), 439-523. [The fourth part of the detailed list of the description and instruction of Amici's microscopes written by himself].


MORENO, Roberto, CLEEMPOEL, Koenraad van, and KING, David, 'A Recently Discovered Sixteenth-Century Spanish Astrolabe', *Annals of Science* 59 (October 2002), 331-362. [Universal astrolabe, Ø 115 mm., acquired by the Museo Nacional de Ciencia y Tecnologia in Madrid in 1999. It may have been designed and made by Juan de Herrera.]


MOULDER DE RIDDER, Jolanda, 'Eise Eisinga and his planetarium', *Journal of Astronomical History and Heritage*, vol.5 (2002), 65-87

NAKAMURA, Tsuko, 'Acceptance and adaptation of octants and sextants in Japan during the eighteenth and nineteenth centuries', *Journal of Astronomical History and Heritage*, vol.5 (2002), 9-20

ORCHISTON, Wayne, and SLEE, Bruce, 'Ingenuity and initiative in Australian radio astronomy: the Dover Heights 'hole-in-the- ground' antenna', *Journal of Astronomical History and Heritage*, vol.5 (2002), 21-34


by authorities in Europe and North America, the book centres on the collection of instruments in the style of Nollet at the Stewart Museum in Montreal].


SIS: [various authors], 'SIS Visit to North Germany, 11th-16th May 2002', Bulletin of the Scientific Instrument Society 74 (September 2002), 24-32. [Excursion by the Scientific Instrument Society to museums and institutions in Kiel, Bergedorf, Wingst, Bremerhaven, Bremen, Lilienthal, Oldenburg and Hamburg].

SLIDE RULE GAZETTE issue 2 appeared in Autumn 2001, with seventeen contributions. 92 pages. Published by the U.K. Slide Rule Circle.

Soulu, F., Quelques instruments scientifiques d'Antoine d'Abbadie (Hendaye: Château d'Antoine d'Abbadie, Fondation de l'Académie des Sciences, [2002]). 8 pages. [Illustrated booklet on some instruments owned or conceived by d'Abbadie (1810-1897), president of the French Academy of Sciences, to which he left his castle-cum-observatory at Hendaye].


TALAS, Sofia, 'Jacques Barthélémy Micheli du Crests Thermometer und seine Beziehungen zu Georg Friedrich Brander', *Zeitschrift des Historischen Vereins für Schwaben* vol. 94 (2001), 177-221. [Extended version of the above, translated into German by Inge Keil, including transcription of the correspondence between the two men, exchanged in the period 1755-1760].

TALBOT, Stuart, 'Caleb Smith's Sea Quadrants of c. 1735 As Constructed by Thomas Heath and George Adams Snr of London', *Bulletin of the Scientific Instrument Society* 73 (June 2002), 2-7


TURSUNOV, O.S, and AZIZOV, S.H., 'A Medieval Observational Instrument in Tashkent', *Journal for the History of Astronomy* 33 Part 1 (February 2002), 41-44. [Structures on and nearby a tomb on a Tashkent cemetery may have been an astronomical instrument, in fact "one of the best preserved dioptic instruments of the early middle ages".]

WARNER, Deborah Jean, 'Stadia Surveying Comes to the United States', *Rittenhouse* 55 (2002), 15-26. [Discusses manufacture and introduction of tools used in this technique, which is similar to triangulation, but the surveyor remains stationary and observes a position of a graduated rod at the distant point. Introduced in the US around 1850].

WELLS, Francis and WYMAN, Tom, 'La Règle à Calcul: Lenoir, Gravet-Lenoir and Tavernier-Gravet Slide Rules', *Journal of the Oughtred Society* 11, nr. 1 (Spring 2002), 23-27. [Traces the role of Étienne Lenoir (1744-1832) and his son Paul-Étienne (1776-1827), France's premier instrument makers, and those who succeeded them, in the development and production of French slide rules.]


ZIK, Yaakov, 'Science and instruments: The telescope as a scientific instrument at the beginning of the seventeenth century', Perspective on Science, Vol. 9, Number 3 (Fall 2001), 259-284.