

## Scientific Instrument Commission Bibliography 21

Twenty-first bibliography of books, pamphlets, catalogues and articles on or connected with historical scientific instruments - Autumn 2003

This bibliography contains work published in 2003, which came to the compiler's notice until October 2003. It also contains earlier publications which came to his notice after completing the twentieth bibliography in Spring 2003. 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.

Special notice: A cumulative index of all 57 issues of *Rittenhouse* can be found as a downloadable PDF document, arranged by authors or subject, on <http://www.rittenhousejournal.org>.

BENNETT, Jim, 'Instruments, Mathematics, and Natural Knowledge: Thomas Harriot's Place on the Map of Learning', in R. Fox, ed., *Thomas Harriot: an Elizabethan Man of Science* (Aldershot, 2000), 137-52.

BENNETT, Jim, 'Gli Strumenti Scientifici' and 'La Strumentazione Astronomica', in S. Petruccioli, ed., *Storia della Scienza*, vol 6 (Rome, 2002), 241-58, 338-56.

BENNETT, Jim, COOPER, Michael, HUNTER, Michael, JARDINE, Lisa, *London's Leonardo. The Life and Work of Robert Hooke* (Oxford: OUP, 2003). 224 pages. ISBN 0-19-852579-6. Jim Bennett's 'Hooke's Instruments' (pp. 63-104) "gives an overview of Hooke's extraordinary fertility in devising scientific and other instruments and devices."

BENNETT, Jim, 'Knowing and doing in the sixteenth century: what were instruments for?', *British Journal for the History of Science* 36 (2003), 129-150. [Headed 'Presidential Address', this was delivered by the then President of the BSHS at the BSHS/SIC meeting 'Do collections matter to instrument studies?' at the Museum of the History of Science in Oxford in June 2002]

BERETTA, Marco, GALLUZZI, Paolo, TRIARICO, Carlo (eds), *Musa Musaei. Studies on Scientific Instruments and Collections in Honour of Mara Miniati* (Florence: Biblioteca di Nuncius Studi e Testi XLIX. 2003). 486 pages, ISBN 88 222 5238 1. Contents: Paolo GALLUZZI, *Prefazione* (V-VIII); Giovanni DI PASQUALE, *Osservazioni sul funzionamento di macchine e meccanismi nel teatro antico* (1-12); Giorgio STRANO, *The in-existent instruments of alexandrine observational astronomy* (13-28); David A. KING, *A remarkable Italian Astrolabe from ca. 1300 ? Witness to an ingenious tradition of non-standard astrolabes* (29-52); Gerard L'E. TURNER, *Two Early Renaissance Astrolabes by Falcono of Bergamo* (53-62); Anthony TURNER, *John Dee, Louvain and the Origins of English Instrument-making* (63-78); Filippo CAMEROTA, *Il distanziometro di Baldassarre Lanci: prospettiva e cartografia militare alla corte dei Medici* (79-92); Thomas B. SETTLE, *Egnazio Danti as a builder of gnomons an introduction* (93-115); Giuseppe OLMI, *Lettere di Fra Gregorio da Reggio, cappuccino e botanico del tardo Rinascimento* (117-139); Paolo ROSSI, *Sulla scienza e gli strumenti: cinque divagazioni baconiane* (141-153); Carlo TRIARICO, *Sull'attribuzione a Galileo di due telescopi galileiani conservati nell'Istituto e Museo di Storia della Scienza di Firenze* (155-172); Yakov ZIK ? Albert VAN HELDEN, *Between discovery and disclosure: Galileo and the telescope* (173-190); Jim BENNETT, *Cosimo's Cosmography: the Palazzo Vecchio and the History of Museums* (191-197); William R. SHEA, *Pascal's Elegant and Eloquent Use of Instruments* (199-218); Elly DEKKER, *Precession Globes* (219-235); Amparo SEBASTIAN, «As you walk the path is created?» (237-250); Dominique FERRIOT, *Les arts et métiers: une collection retrouvée* (251-259); Willem HACKMANN, *The Medical Electrical Machines of John Wesley and John Read* (261-277); Giulio BARSANTI, *Il microscopio delle resurrezioni* (279-302); Renato G. MAZZOLINI, *Maria Sabina: per la storia di una illustrazione scientifica* (303-312); Marco BERETTA, *Lavoisier's Collection of Instruments: A Checkered History* (313-334); Marco CIARDI, *Un museo per la ricerca. Gli scienziati sabaudi, il mondo antico e l'Egitto* (335-353); Ferdinando ABBRI, *La magica possanza. Metafore scientifiche nell'Armida di Gioacchino Rossini* (355-369); Paolo BRENNI, *Volta's electric lighter and its improvements. The birth, life and death of a peculiar scientific apparatus which became the first electric household appliance* (371-394); Peter DE CLERCQ, *Scientific instruments displayed at the Royal Society conversazioni or soirées in the nineteenth century* (395-405); Claudio POGLIANO, *Capelli spaccati in quattro. Tricofilia, tricologia, tricometria* (407-431); Pietro CORSI, *Which instruments for Geological mapping? The case of the Italian Geological Survey* (433-442); Robert G. W. ANDERSON, *Blue Books and Museums: Scrutiny and Statistics in mid-Victorian Britain* (443-456); Stefano CASATI ? Alessandra LENZI, *Bibliografia degli scritti storico-scientifici di Mara Miniati* (457-467); Indice dei nomi (469-483).

BERTUCCI, Paola, 'A Philosophical Business: Edward Nairne and the Patent Medical Electrical Machine (1782)', *History of Technology* vol. 23 (2001) (ed. Ian Inkster, London/New York 2003), 42-58.

BONOLI, F., M. MINIATI, V. GRECO, G. MOLESINI, 'Telescope optics of Montanari, Cellio, Campani and Bruni at the «Museo della Specola» in Bologna', *Nuncius*, 2, 2002: 467-475. [Optics of telescope makers Montanari, Cellio, Campani and Bruni housed at the «Museo della Specola» in Bologna have been tested with state-of-the art equipment. The most significant findings are reported, and insights into the early stages of development of telescope optics are given].

BRENNI, P., '19th Century Scientific Instrument Advertising', *Nuncius*, 2, 2002: 497-515. [For an abstract, see <http://galileo.imss.firenze.it/public/e2002.html>].

BROOKS, Randall C., 'Electron Micrographs of Spectroscopic Gratings', *Rittenhouse* 17 (2003), 27-44. [Results of electron micrographic analysis of several gratings dating from 1875 to about 1962].

BROSCHÉ, Peter, 'Köhler's Sternphotometer von 1786', *Beiträge zur Astronomiegeschichte* vol. 5 (2002), 152-158 [Abstract: Johann Gottfried Köhler (1745-1801) from Dresden proposed a photometer and applied it to a few stars. Its basic principle is the total extinction of the star by a quadratic variable diaphragm. His results show a narrow connection between the diagonal of the diaphragm and present-day stellar magnitudes].

BRYDEN, David, 'A 1707 Advertising Skirmish Between London Opticians', *Bulletin of the Scientific Instrument Society* 77 (2003), 14-21 [John Marshall, John Yarwell and others at loggerheads].

BUCHANAN, P, 'Hydrostatic Weighing', *Equilibrium* 2002, nr. 4, 2731-35.

CAMEROTA, Filippo, 'Two new attributions: a refractive dial of Guidobaldo dal monte and the "Roverino Compass" of Fabrizio Mordente', *Nuncius* XVIII (2003, fasc.1), 25-37.

CANALES, Jimena, 'Photogenic Venus. The "Cinematographic Turn" and Its Alternatives in Nineteenth-Century France', *ISIS* 2002: 93, 585-613. [Attempts to determine the solar parallax included the astronomer Jules Jansen's controversial new instrument, the "photographic revolver" to photograph the Venus transit of 1874].

CHADAREVIARY, Soraya de, 'Relics, Replicas and Commemorations', *Endeavour* 27, 2 (June 2003), 75-79. [Of that icon of 20th-century life sciences, the DNA demonstration model constructed by Watson and Crick at the Cavendish Laboratory in Cambridge in 1953, there is not one original. Rather, there exist several part reconstructions, part replicas, incorporating original base plates, and "pieces supposedly belonging to the original continue to appear at auction"].

COMO: various authors, *Il Gabinetto di Fisica del Liceo Classico A. Volta di Como* (Editoriale Lombarda, 2003, illustrated, 115 pp. ; no ISBN) [Retraces the history of the physics collection of the "liceo" of Como where Volta was professor before going to Pavia. The photos are of poor quality but the volume is very well documented.].

COWHAM, Mike, 'Dial Dealings 2002', *British Sundial Society Bulletin* 15 (1), March 2003, 24-28 [Pocket dials auctioned by Christies' and Sotheby's, London].

[CRAWFORTH-HITCHINS, D.F.], 'Beginner's Guide Part 6: Hydraulic Scales and Magnetic Scales', *Equilibrium* 2002, nr. 4, 2739-46.

DAXECKER, Franz, 'über das Fernrohr und weitere Mitschriften von Vorlesungen Christopher Scheiner's', *Beiträge zur Astronomiegeschichte* vol. 4 (2001), 19-32 [German translation of

lecture ractatus de Tubo Optico, given by Scheiner in Ingolstadt c. 1615 and preserved in manuscript in Munich. The lecture deals with invention, construction, manufacture and use of the telescope].

DAVIS, John, 'Some 18th Century Dialmakers in the Grocers' Company', *British Sundial Society Bulletin* 15 (1), March 2003, 6-14 [Discusses Benjamin Scott, Thomas Heath, Joseph Jackson and George Adams].

DAVIS, John and LOWNE, Michael, 'Henry Wynne's Double Horizontal Dial at Staunton Harold', *British Sundial Society Bulletin* 15 (2), June 2003, 47-58.

DÖRFEL, Günter and MÜLLER, Falk, 'Crookes' Radiometer und Geisslers Lichtmühle - Kooperation oder Konkurrenz?', *N.T.M. (=Internationale Zeitschrift für Geschichte und Ethik der Naturwissenschaften, Technik und Medizin)* 11 (2003), 171-190. [The design of the radiometers which William Crookes constructed for his own use in experimentation in the mid-1870s show technical features originally developed by the German instrument maker Heinrich Geissler in the construction of his 'light mills'. Authors discuss the role of Geissler and his former apprentice and co-worker Robert Goetze in the research process].

DREYER, Francis, 'Des miroirs ardents aux lentilles échelons', *La Revue (du Musée des arts et métiers)* 37 (Dec. 2002), 16-27. [On burning mirrors, including the Count of Buffon's at the CNAM].

DUFNER, Barbara, *Den Himmel fest im Blick. Eine wissenschaftliche Biographie über den Astro-Optiker Bernhard Schmidt*. Studien zur modernen Geschichte, vol. 56. (Stuttgart: Franz Steiner, 2002). 339 pags. [Biography of Bernhard Schmidt (1879-1935), who invented the Schmidt Optical System. This could produce much sharper stellar photographs by correcting spherical aberration, achieved by his addition of a special 'correction-plate' in the centre of curvature. His tools etc. are preserved in the Bergedorf Observatory near Hamburg].

DUPRÉ, Sven, 'The dioptrics of refractive dials in the sixteenth century', *Nuncijs XVIII* (2003, fasc.1), 40-67.

EISNER, Sigmund (ed.), *Geoffrey Chaucer: A Treatise on the Astrolabe* (University of Oklahoma Press, Norman, 2002 [= A Variorum Edition of the Works of Geoffrey Chaucer, vol. 6.1]), xxiv+358 pp. (hardcover) ISBN 0-8061-3413-5.

FOURNIER, Marian, *Early Microscopes A Descriptive Catalogue* (Leiden: Museum Boerhaave Communication no. 300, 2003). 235 pages, ISBN 90 62 92 143 4 [Describes and illustrates (b/w) 323 objects from the collection of Museum Boerhaave, dating between 1675 to 1835, with biographical notes on the makers. Orders to [administratie@museumboerhaave.nl](mailto:administratie@museumboerhaave.nl) A second volume dealing with the later microscopes is planned].

FREIBURGER, Dana A., 'Scientific Instruments and Early Plant Ecology in the U.S.A.', *Rittenhouse* 17 (2003), 9-25. [Abstract: Scientific instruments occupied a significant place in research associated with early plant ecology in the U.S.A. around the turn of the 20th century.

Frederic E. Clements' 1905 book, *Research Methods in Ecology*, allotted a leading role to instruments and instrumental methods while Burton E. Livingston enjoyed success when he devised a new instrument in 1906 that allowed him to pursue his research. This paper looks at the nature of these developments and how the status of scientific instruments then changed over time for these two ecologists.].

HACKMANN, Willem, 'Sir William Snow Harris' Plate Electrical Machine by Watkins & Hill', *Bulletin of the Scientific Instrument Society* 77 (2003), 26-31.

HOLLAND, Julian, 'Instruments in the Cemetery: Carl Rümker's Grave in Lisbon', *Bulletin of the Scientific Instrument Society* 77 (2003), 32-35.

HOLLAND, Julian, 'Scientific Instrument Makers in an Institutional Context', *Rittenhouse* 17 (2003), 1-8.

HOOIJMAIJERS, Hans, 'De omzwervingen van een telescoop', *Gewina* 26 (2003), 40-45 [Discusses vicissitudes of Fraunhofer refractor, used by Frederik Kaiser in 1835 to observe Halley's comet, acquired by Museum Boerhaave in 1967 from private owner].

KEIL, Inge (ed.), *Von Ocularien, Perspicillen und Mikroskopen, von Hungersnöten und Friedensfreuden, Optikern, Kaufleuten und Fürsten. Materialien zur Geschichte der optischen Werkstatt von Johann Wiesel (1583-1662) und seiner Nachfolger in Augsburg* (Augsburg: Wissner-Verlag, 2003. Vol. 13 in series Documenta Augustana). ISBN 3-89639-405-3. 260 pages [Publication of source materials that formed the basis for Dr. Keil's study *Augustanus Opticus*, published in 2000 (see bibliography 17). A CD-ROM is added to make the documents searchable].

KETTENMANN, Helmut, ZAUN, Jörg, KORTHALS, Stephanie, eds., *Unsichtbar - Sichtbar - Durchschaut: Das Mikroskop als Werkzeug des Lebenswissenschaftlers* (Berlin: Museumspädagogische Dienst, 2001). 93 pages. [According to review in ISIS, the twelve essays in this booklet, supplementing a small exhibition in the Deutsches Technikmuseum in Berlin, "offer admirable insight into various aspects of microscopic research (topics of research, microscope making and trading)" in the 19th century].

KILBURN, Kevin J., Jay M. Pasachoff and Owen Gingerich, 'The Forgotten Star Atlas: John Bevis's Uranographia Britannica', *Journal for the History of Astronomy*, 34 (2003), 125-44. [Briefly discusses the involvement of two instrument makers, Thomas Yeoman, Northampton and John Neale, London].

KURZER, Frederick, 'William Hasledine Pepys FRS: A Life in Scientific Research, Learned Societies and Technical Enterprise', *Annals of Science* 60 (2003), 137-183. [Pepys (1775-1856) contributed significantly to the advancement of chemical and physical science. He invented and designed ingenious apparatus, such as a mercury gasometer and an improved eudiometer, and manufactured surgical instruments].

LE GUET TULLY, Françoise, and SADSAOUD, Hamid, 'La création de l'observatoire d'Alger', *La Revue (du Musée des arts et métiers)* 38 (March 2003), 26-35 [On the Algiers observatory, with many illustrations of its instrumentation].

LUALDI, Alberto, 'Venetian Makers of Optical Instruments of the 18th-19th Centuries. Part 2. The Selva Family', *Bulletin of the Scientific Instrument Society* 77 (2003), 10-13.

MALET, Antoni, 'Kepler and the Telescope', *Annals of Science* 60 (2003), 107-136. [On the influence of Kepler's *Dioptrice* on telescope-making in the 17th century].

McCONNELL, Anita, 'New Instrument Makers in the New Oxford DNB', *Bulletin of the Scientific Instrument Society* 77 (2003), 25 [Scheduled to appear in 2004, the new Dictionary of National Biography offers rewritten versions of 76 older articles, plus 33 new entries, on instrument makers].

MESCHIARI, Alberto, 'Giovanni Battista Amici e il Reale Ufficio Topografico di Napoli: corrispondenza con i colonnelli Visconti, De Sauget, Melorio', *Physis* XXXIX, 2002, Nuova Serie, Fasc. 1, pp. 161-247. [The correspondence of Amici with some of the Directors of the Surveying Office in Naples, generally concerning instruments and their use].

MESCHIARI, Alberto, 'Giovanni Battista Amici e il Reale Ufficio Topografico di Napoli e la collezione di strumenti dell'Istituto Geografico Militare', *Universo*, Anno LXXXIII, N.1, Febbraio 2003, pp. 112-129 [On the instruments of the Surveying Office in Naples].

MESCHIARI, Alberto, *The microscopes of Giovanni Battista Amici* (Fondazione Giorgio Ronchi, Edizioni Tassinari, Firenze, 2003), ISBN: 88-88649-09-3. 300 pages + 17 tables, numerous b/w and colour illustrations. [Includes G.B. Amici's "technical sheets", describing all his microscopes (published by the author in various articles over the last years), as well as various "notes about microscopes". The introduction is in English and Italian and the most important instruments are illustrated. The book is available at the Fondazione G.Ronchi: <http://ronchi.iei.pi.cnr.it/>].

MESCHIARI, Alberto, 'Corrispondenza di Giovanni Battista Amici con William Henry Fox Talbot', *Nuncius* XVIII (2003, fasc.1), 201-247.

MESCHIARI, Alberto (editor), *Il Libro de' conti di laboratorio di Giovanni Battista Amici e altri documenti inediti* (Firenze: Fondazione Giorgio Ronchi, Edizioni Tassinari, 2003). 313 pp. ill. [Several interesting and commented documents concerning Amici's workshop activities, correspondents, and travels].

MESKENS, Ad, 'Some new biographical data about Michiel Coignet', *Nuncius*, 2, 2002: 447-455 [The correspondence of the Jesuit John Hay with Christopher Clavius reveals some interesting details of the life and work of the Antwerpen instrument maker Michiel Coignet].

MILANESI, Marica, 'Le globe terrestre de Coronelli', *La Revue (du Musée des arts et métiers)* 37 (Dec. 2002), 34-44.

MILLS, Allan, HENNESSY, John, and WATSON, Stephen, 'Reconstruction - Making Gears in Ancient Greece', *Bulletin of the Scientific Instrument Society* 77 (2003), 36-38.

MÖRZER BRUYNS, W.F.J., *Schip Recht Door Zee. De octant in de Republiek in de achttiende eeuw* (Amsterdam: Edita KNAW, 2003). 260 pages, ISBN 90-6984-383-8. [PhD dissertation on the introduction and distribution of the octant in the Dutch Republic, including a list of 29 surviving Dutch 18th-century octants, 5 ditto sextants and 1 reflecting circle. With English and French summaries. Order from [edita@bureau.knaw.nl](mailto:edita@bureau.knaw.nl)].

OSBORN, Marijane, *Time and the Astrolabe in the Canterbury Tales* (University of Oklahoma Press, Norman, 2002 [= Series for Science and Culture, vol. 5]), xvii+350 pp. (hardcover) ISBN 0-8061-3403-8.

OUDERAA, E.M. van der, 'Becker's Sons rembalans type 1G', *Meten & Wegen* maart 2002, 2777 - 2784 (ISSN 0920-2420). [Dutch paper on a type of laboratory balance made in the Netherlands; with extensive terminology on analytical balances].

PEDERSEN, K.M.: 'Thomas Bugge's journal of a voyage through Germany, Holland and England, 1777', pp. 29-46 in Jesper Lützen, ed., *Around Caspar Wessel and the Geometric Representation of Complex Numbers. Proceedings of the Wessel Symposium at the Royal Academy of Sciences and Letters. Wessel Symposium, August 1998, Copenhagen*. (Copenhagen: The Royal Danish Academy of Sciences and Letters, *Matematisk-fysiske Meddelelser* 46:2, 2001). [Concentrates on instruments later found in the observatory at the Round Tower in Copenhagen].

PUHLE, Matthias (ed.), *Die Welt im leeren Raum: Otto von Guericke 1602-1686. Eine Ausstellung des Kulturhistorischen Museums in Verbindung mit der Otto-von-Guericke-Gesellschaft e.V. und dem Museum für Naturkunde anlässlich des 400. Geburtstags von Otto von Guericke* (Magdeburger Museumschriften, Nr. 7) (München / Berlin: Deutscher Kunstverlag 2002). 480 pages, ISBN 3-422-06374-9. [Catalogue with exhibition on the air-pump pioneer, with many essays, specified in *Berichte zur Wissenschaftsgeschichte* 2 (2003), page 136].

RASQUIN, Victor, *Les instruments scientifiques dans les collections de Charles de Lorraine. Edition annotée de l'inventaire après décès et du catalogue de vente* (Brussels: Archives et bibliothèque de Belgique, Numéro spécial 66, 2002). 106 pages, no ISBN. Order from the Royal Library of Belgium, Keizerslaan 4, B-1000 Brussels). [The Austrian governor in the Southern Netherlands, Charles of Lorraine (1712-80) had a cabinet of instruments of over 500 items, which was dispersed after his death; some items went to Vienna. This booklet is an annotated transcription of the inventory drawn up in 1780 by the instrument-maker Henri Joseph de Seumoi].

REID, John, 'James Ferguson and the Double Windmills', *Bulletin of the Scientific Instrument Society* 77 (2003), 22-24 [On air pressure demonstration devices, in response to Paul Zoller's paper in *SIS Bulletin* 76].

dos REIS, Antnio Estacio, 'Pedro Nunes Instruments', *Bulletin of the Scientific Instrument Society* 77 (2003), 4-7.

RUDD, M. Eugene, 'Instrument Collection Profile: University of Nebraska', *Rittenhouse* 17 (2003), 45-55.

SPECTROSCOPY: *Spectroscope Histories, Papers based on a workshop organised in collaboration with the IUHPS Scientific Instrument Commission with the support of the Hans-Jenemann Foundation, and hosted by the Deutsches Museum. Munich, 2001.* Edited with an Introduction by C. BIGG and K. STAUBERMANN. *Nuncius*, 2, 2002: 583-691. Contents: Klaus HENTSCHEL, *Spectroscopy or Spectroscopies?* ; David AUBIN, *Orchestrating Observatory, Laboratory, and Field: Jules Janssen, the Spectroscope, and Travel* ; Susan GAMBLE, *An appealing Case of Spectra: Photographs on Display at the Royal Society, London 1891* ; Sven WIDMALM, *Quantifying Sunshine: Knut Ångström and the Standardisation of Pyrheliometry* ; Dana A. FREIBURGER, *Building a Japanese Research Tradition in Physics: Hantaro Nagaoka and the Spectroscope.* Note: Following the section on archives in *Nuncius* 2, 2001, this is the second SIC section to appear in this journal. The third SIC section, scheduled for *Nuncius* 2, 2003, will contain more papers from the spectroscopy workshop.

SVANSSON, Artur, 'Swedish Oceanographic Instruments up to 1950', pp. 358-361 in Keith R. Benson, Philip F. Rehbock, eds., *Oceanographic History* (Seattle: University of Washington Press, 2002).

TALAS, S., 'Thermometers in the eighteenth century: J.B. Micheli du Crest's works and the cooperation with G. F. Brander', *Nuncius*, 2, 2002: 475-497. [For an abstract, see <http://galileo.imss.firenze.it/public/e2002.html>].

TALBOT, Stuart, 'The First Telescope Dynameter As Designed and Constructed by Jesse Ramsden, London c.1780', *Bulletin of the Scientific Instrument Society* 77 (2003), 8-9.

TURNER, Gerard L'E., 'The Italian-Hour Nocturnal', *Annals of Science* 60 (2003), 249-268. [Discusses a variant type, different from the normal universal nocturnal. Of the dozen identified preserved examples, six were made shortly after 1500 by Falcono of Bergamo, Northern Italy; this paper establishes the existence of this hitherto unrecognized workshop].

VOORT, J.P. van de, 'De mazen van net en wet: schielen, spanen en maaswijdtemeters', *Meten & Wegen*, maart 2002, nr. 117, 2785 - 2790. [Dutch article on fishing includes discussion and illustration of devices to measure the mesh of fishing nets, such as the 'maaswijdtemeter' made by Observator in Rotterdam].

ZIK, Yaakov, 'Galileo and optical aberrations', *Nuncius*, 2, 2002: 455-467. [For an abstract, see <http://galileo.imss.firenze.it/public/e2002.html>].

ZIK, Yaakov, *Kepler and Galileo: Theories of light and vision. Practical knowledge and the status of the telescope as a scientific instrument at the beginning of the seventeenth century*, Ph. D. Thesis, Israel: University of Haifa. 2002. [For details, contact the author at [zikya@barak-online.net](mailto:zikya@barak-online.net)].