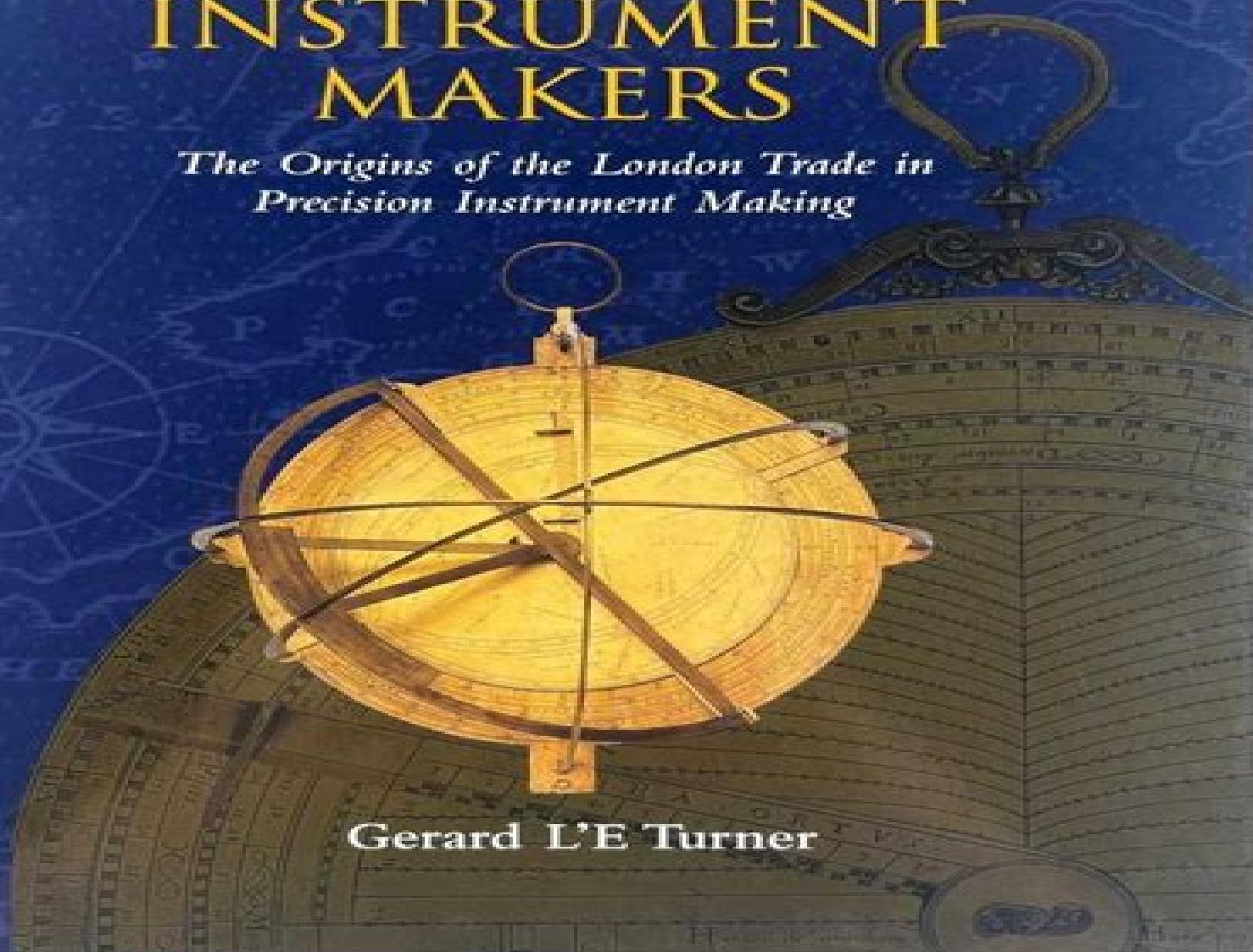


# ELIZABETHAN INSTRUMENT MAKERS

*The Origins of the London Trade in  
Precision Instrument Making*



Gerard L'E Turner

# Elizabethan Instrument Makers The Origins Of The London Trade In Precision Instrument Making

**Anita McConnell**

## **Elizabethan Instrument Makers The Origins Of The London Trade In Precision Instrument Making:**

**Elizabethan Instrument Makers** Gerard L'Estrange Turner, Senior Research Associate at the Museum of the History of Science Gerard L'e Turner, 2000 Europe in the sixteenth century experienced a period of unprecedented vitality and innovation in the spheres of science and commerce. The Americas had been discovered and the colonizing nations had an urgent need for mathematical instruments for navigation and surveying. The Elizabethan age saw the establishment of the precision instrument making trade in London from 1540 a trade that would become world famous in the succeeding two centuries. The first of a group of London makers was an immigrant from Flanders Thomas Gemini succeeded by the Englishman Humfrey Cole. It has proved possible to find over 100 surviving mathematical instruments signed and unsigned made by a group of London makers during the reign of Queen Elizabeth I. This book describes these instruments in detail together with the methods by which unsigned instruments are attributed. It tells how the skills of dividing and engraving on brass developed in parallel with the map making and printing for which the Low Countries were the most important centre. There was already a demand in Elizabethan England for these skills since accurate measurement was crucial to the professions of navigation surveying fortification and gunnery. England at war with Spain eager to exploit the riches of the New World and at home experiencing the redistribution of monastic property to individual landowners urgently needed these new professions.

**Mathematical Practitioners and the Transformation of Natural Knowledge in Early Modern Europe** Lesley B. Cormack, Steven A. Walton, John A. Schuster, 2017-03-15 This book argues that we can only understand transformations of nature studies in the Scientific Revolution if we take seriously the interaction between practitioners those who know by doing and scholars those who know by thinking. These are not in opposition however Theory and practice are end points on a continuum with some participants interested only in the practical others only in the theoretical and most in the murky intellectual and material world in between. It is this borderland where influence appropriation and collaboration have the potential to lead to new methods new subjects of enquiry and new social structures of natural philosophy and science. The case for connection between theory and practice can be most persuasively drawn in the area of mathematics which is the focus of this book. Practical mathematics was a growing field in early modern Europe and these essays are organised into three parts which contribute to the debate about the role of mathematical practice in the Scientific Revolution. First they demonstrate the variability of the identity of practical mathematicians and of the practices involved in their activities in early modern Europe. Second readers are invited to consider what practical mathematics looked like and that although practical mathematical knowledge was transmitted and circulated in a wide variety of ways participants were able to recognize them all as practical mathematics. Third the authors show how differences and nuances in practical mathematics typically depended on the different contexts in which it was practiced social cultural political and economic particularities matter. Historians of science especially those interested in the Scientific Revolution period and the

history of mathematics will find this book and its ground breaking approach of particular interest     *Medicine and Magic in Elizabethan London* Lauren Kassell,2007-02-01 Simon Forman 1552 1611 is one of London s most infamous astrologers He stood apart from the medical elite because he was not formally educated and because he represented and boldly asserted medical ideas that were antithetical to those held by most learned physicians He survived the plague was consulted thousands of times a year for medical and other questions distilled strong waters made from beer herbs and sometimes chemical ingredients pursued the philosopher s stone in experiments and ancient texts and when he was fortunate spoke with angels He wrote compulsively documenting his life and protesting his expertise in thousands of pages of notes and treatises This highly readable book provides the first full account of Forman s papers makes sense of his notorious reputation and vividly recovers the world of medicine and magic in Elizabethan London     **The Oxford Handbook of the History of Physics**

Jed Z. Buchwald,Robert Fox,2013-10-10 The Oxford Handbook of the History of Physics brings together cutting edge writing by more than twenty leading authorities on the history of physics from the seventeenth century to the present day By presenting a wide diversity of studies in a single volume it provides authoritative introductions to scholarly contributions that have tended to be dispersed in journals and books not easily accessible to the general reader While the core thread remains the theories and experimental practices of physics the Handbook contains chapters on other dimensions that have their place in any rounded history These include the role of lecturing and textbooks in the communication of knowledge the contribution of instrument makers and instrument making companies in providing for the needs of both research and lecture demonstrations and the growing importance of the many interfaces between academic physics industry and the military

**The Cambridge History of Science: Volume 4, Eighteenth-Century Science** David C. Lindberg,Roy Porter,Ronald L. Numbers,2003-03-17 The fullest and most complete survey of the development of science in the eighteenth century

**Documenting the Early Modern Book World** Malcolm Walsby,Natasha Constantindou,2013-10-14 Scholars of pre modern literary culture rely almost exclusively on texts that have survived mostly those that have reached the comparative safety of modern library collections But the urge to record catalogue and advertise the wealth of new publications in the age of print created an additional and valuable resource book lists Printers made lists of their available stock owners catalogued their libraries religious authorities drew up indexes of banned books assessors inventoried collections and stock as part of the settlement of estates or legal proceedings This volume examines an array of such lists taken from a variety of European countries during the fifteenth sixteenth and seventeenth centuries The result is a wide ranging re evaluation of one of the most interesting and underused resources for early modern book history Contributors include J rgen Beyer Flavia Bruni Gina Dahl Cristina Dondi Shanti Graheli Neil Harris Justyna Kilia czyk Zi ba Alexander Marr Kasper van Ommen Andrea Ottone Leigh T I Penman Benito Rial Costas John Sibbald Kevin M Stevens and Malcolm Walsby     Six Renaissance Men and Women Elisabeth Salter,2007 In this innovative study Elisabeth Salter reconstructs the lives of six men and women of the

early Renaissance and leads us on a quest to reconstruct their lost cultural worlds The six men and women are all figures from the margins of the royal courts during the reigns of Henry VII and Henry VIII This book will appeal to historians of the late medieval period and the Renaissance and will serve as an exemplary model to scholars of biographical reconstruction

Beyond the Learned Academy Philip Beeley,Christopher Hollings,2024 Comprising fifteen essays by leading authorities in the history of mathematics this volume aims to exemplify the richness diversity and breadth of mathematical practice from the seventeenth century through to the middle of the nineteenth century Astrology, Almanacs, and the Early Modern English Calendar Phebe Jensen,2020-11-22 Astrology Almanacs and the Early Modern English Calendar is a handbook designed to help modern readers unlock the vast cultural religious and scientific material contained in early modern calendars and almanacs It outlines the basic cosmological astrological and medical theories that undergirded calendars traces the medieval evolution of the calendar into its early modern format against the background of the English Reformation and presents a history of the English almanac in the context of the rise of the printing industry in England The book includes a primer on deciphering early modern printed almanacs as well as an illustrated guide to the rich visual and verbal iconography of seasons months and days of the week gathered from material culture farming manuals almanacs and continental prints As a practical guide to English calendars and the social mathematical and scientific practices that inform them Astrology Almanacs and the Early Modern English Calendar is an indispensable tool for historians cultural critics and literary scholars working with the primary material of the period especially those with interests in astrology popular science popular print the book as material artifact and the history of time reckoning

### **Ballads and Broadsides in Britain, 1500-1800**

Patricia Fumerton,Anita Guerrini,2017-05-15 Bringing together diverse scholars to represent the full historical breadth of the early modern period and a wide range of disciplines literature women s studies folklore ethnomusicology art history media studies the history of science and history Ballads and Broadsides in Britain 1500 1800 offers an unprecedented perspective on the development and cultural practice of popular print in early modern Britain Fifteen essays explore major issues raised by the broadside genre in the early modern period the different methods by which contemporaries of the sixteenth through nineteenth centuries collected and appreciated such early modern popular forms the preoccupation in the early modern period with news and especially monsters the concomitant fascination with and representation of crime and the criminal subject the technology and formal features of early modern broadside print together with its bearing on gender class and authority authorship and finally the nationalizing and internationalizing of popular culture through crossings against and sometimes with cultural Others in ballads and broadsides of the time Islamic Astronomy and Geography David A. King,2022-02-13 This volume of 12 studies mainly published during the past 15 years begins with an overview of the Islamic astronomy covering not only sophisticated mathematical astronomy and instrumentation but also simple folk astronomy and the ways in which astronomy was used in the service of religion It continues with discussions of the importance of Islamic

instruments and scientific manuscript illustrations Three studies deal with the regional schools that developed in Islamic astronomy in this case Egypt and the Maghrib Another focuses on a curious astrological table for calculating the length of life of any individual The notion of the world centred on the sacred Kaaba in Mecca inspired both astronomers and proponents of folk astronomy to propose methods for finding the qibla or sacred direction towards the Kaaba their activities are surveyed here The interaction between the mathematical and folk traditions in astronomy is then illustrated by an 11th century text on the qibla in Transoxania The last three studies deal with an account of the geodetic measurements sponsored by the Caliph al Ma'man in the 9th century a world map in the tradition of the 11th century polymath al-Biruni alas corrupted by careless

copying and a table of geographical coordinates from 15th century Egypt      **Robert Recorde** ,2012-09-15 Recent research has revealed new information about the Welsh Tudor mathematician Robert Recorde who invented the equals sign what inspired his work and what was its influence on the development of mathematics education in the English speaking world The findings of that research presented at a commemorative conference in 2008 form the core of this publication The book begins with an account of Recorde's life and an overview of his work in mathematics medicine and cosmography Individual chapters concentrate on each of his books in turn taken chronologically and are supplemented by chapters that present historical perspectives of Recorde's work and its wider European links and one that sets Recorde's work within the general knowledge economy      The Oxford Handbook of Shakespeare Arthur F. Kinney,2012 Contains forty original essays      The Cambridge History of Science: Volume 3, Early Modern Science David C. Lindberg,Katharine Park,Ronald L. Numbers,Roy Porter,2003

An account of European knowledge of the natural world c 1500-1700      **Instruments of Knowledge** Jean-François Gauvin,2023-06-19 In a bid to claim scientific objects as requiring a significant amount of conceptual labor this book looks sequentially at instruments habits and museums The goal is to uncover how together these material and immaterial activities rules and commitments form one meaningful and credible blueprint revealing the building blocks of knowledge production They serve to conceptualize and examine the entire life of an instrument from its ideation and craft to its use reuse circulation recycling and if not obliterated its final entry into a museum It is such an epistemological triptych that guides this investigation      *Discussing Chemistry and Steam* Trevor Harvey Levere,Gerard L'Estrange Turner,Jan Golinski,Larry R.

Stewart,2002 This book contains an edition of the Minutes of the Coffee House Philosophical Society 1780-1787 as transcribed by William Nicholson the secretary to the society The 1780s were exciting years for science and for its applications and experimental philosophy and industrial development were closely interwoven This coffee house society provided a group of natural philosophers with the opportunity to discuss the topics that most interested them The minutes themselves unique in their completeness constitute a continuous record of the fortnightly meetings of a group of leading natural philosophers instrument makers physicians and industrialist entrepreneurs They are an important resource for historians of politics and society including the industrial revolution as well as for historians of science and technology In

addition to a fully edited edition of the Minute book and brief biographies of all the members the book includes essays by Jan Golinski on the members discussion about phlogiston and other issues relating to the chemical revolution and by Larry Stewart on the reforming radical and industrial contexts of the networks to which the members belonged One of the standard criticisms of English science in the late eighteenth century is its isolation from the rest of Europe These minutes offer a very different picture The members the Irish chemist Richard Kirwan taking the most active role discussed current issues in science and reported on scientific and industrial advances from all Europe and even from Hudson s Bay showing early English awareness of the latest developments The Minute Book gives a sense of history at a particular period and is invaluable to all historians whatever their specialism     Jesse Ramsden (1735-1800) Anita McConnell,2016-12-05

Jesse Ramsden was one of the most prominent manufacturers of scientific instruments in the latter half of the eighteenth century To own a Ramsden instrument be it one of his great theodolites or one of the many sextants and barometers produced at his London workshop was to own not only an instrument of incredible accuracy and great practical use but also a thing of beauty In this the first biography of Jesse Ramsden Dr Anita McConnell reconstructs his life and career and presents us with a detailed account of the instrument trade in this period By studying the life of one prominent instrument maker the entire practice of the trade is illuminated from the initial commission the intricate planning and design through the practicalities of production delivery and crucially payment for the work The book will naturally be of immeasurable interest to historians of science and scientific instruments but as it also sheds light on the increasing commercialisation of the scientific trade on the cusp of the Industrial Revolution should also interest social and economic historians of the eighteenth century     **Gabriel**

**Harvey and the History of Reading** Anthony Grafton,Nicholas Popper,William H. Sherman,2024-01-08 Few articles in the humanities have had the impact of Lisa Jardine and Anthony Grafton s seminal Studied for Action 1990 a study of the reading practices of Elizabethan polymath and prolific annotator Gabriel Harvey Their excavation of the setting methods and ambitions of Harvey s encounters with his books ignited the History of Reading an interdisciplinary field which quickly became one of the most exciting corners of the scholarly cosmos A generation inspired by the model of Harvey fanned out across the world s libraries and archives seeking to reveal the many creative unexpected and curious ways that individuals throughout history responded to texts and how these interpretations in turn illuminate past worlds Three decades on Harvey s example and Jardine s work remain central to cutting edge scholarship in the History of Reading By uniting Studied for Action with published and unpublished studies on Harvey by Jardine Grafton and the scholars they have influenced this collection provides a unique lens on the place of marginalia in textual intellectual and cultural history The chapters capture subsequent work on Harvey and map the fields opened by Jardine and Grafton s original article collectively offering a posthumous tribute to Lisa Jardine and an authoritative overview of the History of Reading     *Renaissance Astrolabes and their Makers* Gerard L'E. Turner,2024-10-28 This book is about the archaeology of science or what can be learnt from the

systematic examination of the artefacts made by precision craftsmen for the study of the natural world An international authority on historical scientific instruments Gerard Turner has collected here his essays on European astrolabes and related topics By 1600 the astrolabe had nearly ceased to be made and used in the West and before that date there was little of the source material for the study of instruments that exists for more modern times It is necessary to read the instruments themselves and astrolabes in particular are rich in all sorts of information mathematical astronomical metallurgical in addition to what they can reveal about craftsmanship the existence of workshops and economic and social conditions There is a strong forensic element in instrument research and Gerard Turner s achievements include the identification of three astrolabes made by Gerard Mercator all of whose instruments were thought to have been destroyed Other essays deal with the discovery of an important late 16th century Florentine workshop and of a group of mid 15th century German astrolabes linked to Regiomontanus     **John Pell (1611-1685) and His Correspondence with Sir Charles Cavendish** Noel Malcolm,Charles Cavendish,John Pell,Jacqueline Stedall,2005 Publisher description

## Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Elizabethan Instrument Makers The Origins Of The London Trade In Precision Instrument Making**

In a global inundated with monitors and the cacophony of immediate interaction, the profound power and mental resonance of verbal artistry frequently disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, nestled within the lyrical pages of **Elizabethan Instrument Makers The Origins Of The London Trade In Precision Instrument Making**, a interesting work of literary beauty that pulses with raw emotions, lies an memorable trip waiting to be embarked upon. Composed by a virtuoso wordsmith, this enchanting opus manuals viewers on an emotional odyssey, gently revealing the latent potential and profound impact embedded within the delicate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect its interesting writing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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