

GULIELMUS OVGHTRED ANGLYS ex Academia Cantabrigiensi A etat: 73. 1646.

W. Hollar ad vivum delin: 1644 feetty Antwerpie A. 1646.

William **Oughtred**

"Inventor of the Slide Rule"

died 350 years ago after a long and fruitful life

Name: William Oughtred

Birth Date: March 5, 1574

Death Date: June 30 1660

350 years ago

Place of Birth: Eton, Buckinghamshire,

England

Place of Death: Albury, Surrey, England

Nationality: English

Gender: Male

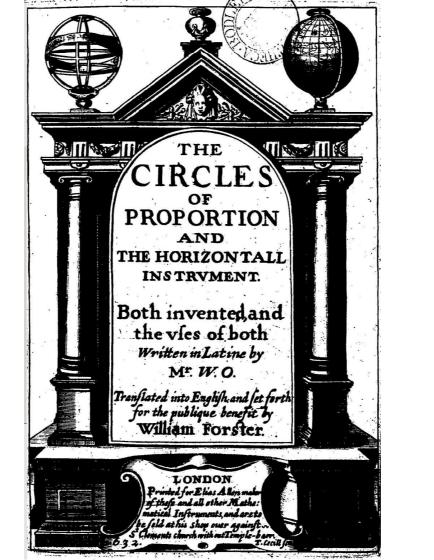
Occupations: mathematician, clergyman,

educator

... But said he, seeing you are taken with such mechanicall ways of instruments, I will shew you what devises I had had by mee these many years. And first hee brought to mee two Rulers of that sort, to be used by applying one to the other, without any compasses: and after that hee showed mee those lines cast into a circle of Ring, with another moveable circle upon it, I seeing the great expeditensse of both those wayes, but especially, of the latter, wherein it farre excelleth any other Instrument which hath bin knowne, told him, I woundered that hee could so many yeares conceale such usefull inventions

Oughtred on Instrument Practice vs. Theory

... That the true way of Art is not by Instruments, but by Demonstration: and that it is a preposterous course of Artists, to make their Schollers only doers of tricks, as it were Juglers: to the despite of Art, losse of precious time, and betraying of willing and industrious wits, unto ignorance, and idlenesse. That the use of Instruments is indeed excellent, if a man be an Artist but contemptible, being set and opposed to Art ...





THE FIRST PART OF THIS BOOKE,

Shewing the vie of the First side
of the Instrument, for the working of Proportions both simple and compounded, and
for the ready and easie resolving of questions both in Arithmetique, Geometrie,
and Astronomie, by Calculation.

CUAD. 1

Of the Description, and wse of the Circles in this First side,

Here are two fides of this Instrument. On the one fide, as it were in the plains of the Horizon, is delineated the projection of the Sphere. On the other fide there are divers kindes of Circles, divided after many severall waies;

B toge-





Oughtred's Modesty regarding his Circles of Proportion

My Instrument ... only bows and inflects Gunter's lines.

Oughtred's Agressiveness towards Delamaine

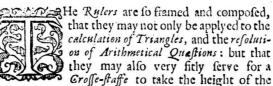
... presented with a most [...] and scurolous Pamphlet written against me by Richard Delamaine, who professeth himself a Teacher of Mathematickes about the City ...

I did much wonder at it, to see my self so basely and impudently abused by one whom I never had wronged, but had done very much courteous for giving him acess to my chamber in Arundell House day by day, teaching and instructing him that facultie he professeth: not onely satisfying his scruples in those things he partly knew but even laying the very foundation of diverse parts, whereof hee was utterly ignorant

Invention "Circles of Proportion"	1621/1622	1630	1632	1650-'62
Hearsay (documented)	Oughtred (by Forster)			
Published		Delamain (disc and sliding ring)	Oughtred (2 rotating pointers)	
Extant CoP Specimens			E. Allen	Davenport H. Sutton
(no extant Disc and Ring)				



The Declaration of the two Rylers for Calculation.



Sunne, or any Starre above the Horizon, and also their distances. In which regard I call the longer of the two Rulers the Staffe, and the Shorter the Transversarie.

And are in length one to the other almost as 3 to 2.

The Rulers are just foure square, with right angles: and equal in bignesse: they are thus divided.

The Transversarie at the upper end noted with the letters S, T, N, E, on the severall sides, hath a pinnicide or sight: at the lower edge of which sight is the line of the Radim, or Vnite line, where the divisions beginne.

On the left edge of one of the sides are set the Degrees from 0 to 33 degrees. And on the right edge of the same side is set the line of Sines from 90 to 1 degree.

In the next fide are fet swo lines of Tangents, that on
I the

Oughtred's description of "Two Rulers" (1633) also known as Sliding Rods



"THE DECLARATION OF THE TWO RULERS"

Oughtred described two Rulers of unequal length

"which could also be used as Staffe and

Transversarie of a Crosse-Staffe"

(consider this one in the Florentine

Museum for the History of Science)

