

Contents of ZON & TIJD 2019.3 (nr. 130, September 2019)

Editors

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Editorial	3	The meridian line of 's-Hertogenbosch - <i>Frans Maes / Harry Kelder</i>	20
On the occurrence of 'time' in our language.		The only public meridian line of The Netherlands is found in Den Bosch city hall. The solar image crossing at the summer solstice is celebrated annually.	
From the NL Board - Secretariat	4		
The next meeting (28 September) will include a workshop on how to measure wall declination.			
Sundial exhibition in Wroclaw - <i>Editors</i>	5	Another navicula turned up - <i>Frans Maes / John Davis</i>	22
In the main University building 87 sundials are on display until sometime next year.		John reported the discovery of another Navicula in BSS Bulletin of June 2019. The article gives a brief introduction on naviculae and describes the present find.	
'De Zonnewijzerkring' on Facebook - <i>Astrid van der Werff</i>	6		
Astrid encourages members to join Facebook and like and share her weekly postings.			
Graduates put their pen to paper - <i>Editors</i>	6	This can only be done near the equator - <i>Frans Maes</i>	24
Astrid challenged the graduates of the last gnomonics course to submit an article in return. This resulted in the following six entries.		A skate boarder performing in a halfpipe in Kuala Lumpur, which actually is the Merdeka sundial celebrating the independence of Malaysia in 1957.	
The excursion to Franeker - <i>Peter Smit</i>	7	A homemade heliochronometer, part 3: Effect of atmospheric refraction - <i>André Reekmans</i>	25
Report of this year's excursion to the Royal Eise Eisinga Planetarium in Franeker.		The effect of atmospheric refraction on the accuracy of this sundial is notable.	
Return to Jaipur - <i>Joris Willems</i>	9	Foster-Lambert sundials, part 2 - <i>Han Hoogenraad</i>	28
Joris toured Northwest India by bicycle in 1983 and visited the observatories of Jaipur and Delhi. He is now able to study the Samrat Yantra ('great instrument') in detail.		Han proves that a second sundial can result from projecting an equatorial dial to the horizontal plane.	
Sundial ignorance - <i>Henk Moraal</i>	15	Starred sundial found in Finland - <i>Frans Maes</i>	30
Henk is astonished by the ignorance and lack of interest of people in sundials, and has examples of incorrect(able) placement of public sundials.		In Tornio a 12-pointed star was found with sundials on top and bottom, as well as on the sides of the points. It resembles similar dials from the north of the Netherlands and Germany, but was designed for a higher latitude.	
A passer-by gets hooked - <i>Pieter van den Berg</i>	16	The 'Swiss pocket knife' from Museum Boerhaave - <i>Frans Maes</i>	31
Persistent questions from his grandson brought Pieter to join the Sundial Society and take the course. He forgot about his grandson and got hooked to sundials.		An intriguing instrument from Boerhaave, now on display at the Planetarium in Franeker, appears to combine an altitude sundial, compass, spirit level, magnifying glass and measuring rod. It was patented by François Cicile-Larbre from Reims in 1866.	
Sundial awareness - <i>Hans Schipper</i>	17	Puzzle: qibla and Eise Eisinga - <i>Frans Maes</i>	32
For Hans, 'sundial awareness' is the main yield of the course. Relatives and friends now send him sundial pictures from near and far.		The 'zenith trick' for determining the direction of Mecca was disclosed, and a caption about Eisinga questioned.	
Interesting and useful - <i>Ab Alexandre</i>	18	Information on the Netherlands' and Flemish Sundial Societies	35
Ab discovered that mathematics are an indispensable part of gnomonics. Fortunately, his daughter assisted in mastering the art.			
In memoriam Reinhold Kriegler and Gianni Ferrari - <i>Frans Maes</i>	19		
Two great sundialists and friends passed away last March.			