

Contents of ZON & TIJD 2019.4 (nr. 131, December 2019)

Editors

Hint for the digital version: a mouse click on an entry brings you to the page where the article starts.

Editorial	3	Report of the workshop "How to measure wall declination" - Hans Schipper	24
"Relative time" - Happy New Year, according to the Western calendar.		More than ten members took part in this workshop. Hans outlines the steps taken and the results of their measurements. The south wall of Tricht church appeared to decline east by 12°.	
From the NL Board - Secretariat	4	Report of the meeting of 28 September in Tricht - Karine van Drunen & Ruud Hooijenga	26
The next meeting will be on 25 January 2020 in Tricht. From 1 January Ruud Hooijenga will be the new secretary.		Frans Maes gave a presentation on heliostats (see article on p. 6). Han Hoogenraad donated some of his sundials to the Society, which were auctioned. The revenues were split between the Alzheimer Foundation and the Society. Members reported their finds and brought up questions.	
Additions and corrections - Editors	4	Report of the 25th AGM of the Flemish Sundial Society, 26 October in Kortrijk - Eric Daled	28
Corrections on the article "Return to Jaipur" (2019.3) and a useful link for qibla finding.		Eric summarized last year's activities and presented the statement of accounts. The arrangement with the Netherlands' Sundial Society will be continued in 2020.	
How to move a sundial from Egypt - Frans Maes	5	André Reekmans gave a presentation on some of the many sundial models, constructed by the late Aimé Pauwels.	
A vertical direct south sundial taken along from Egypt stems probably from the southern Balkans and will be correct here when inclined by 9.9°.		Contents of this issue - Editors	32
Construction of sundials at "Het Rhedens" comprehensive school - Hans Schipper	6	Table of equation of time and declination for 2020 - Thijs de Vries	32
Students make an equatorial sundial in the metal working class.		Information on the Netherlands' and Flemish Sundial Societies	35
Sunshine where one wants it - using a heliostat - Frans Maes	8		
Heliostats are used in Viganella (Italian Alps) and Rjukan (Norway) to light up the central square in winter, when the sun is blocked by a high mountain ridge. The article is dedicated to the memory of Gianni Ferrari.			
From local solar time to (atomic) clock time - Willy Ory & Eric Daled	12		
This part discusses mean solar time, standard time, universal time, atomic time and the leap second.			
The sundials of W.G. ten Houte de Lange - part 3. W.G. and the Zeiss Planetarium in The Hague - Frans Maes	16		
What was W.G. ten Houte de Lange's involvement in the Zeiss Mark I planetarium projector in The Hague?			
Analemmatic sundial using 'standard' paving stones - Lou Güse	20		
An analemmatic dial was constructed using standard concrete paving stones with plastic symbols embedded.			
Puzzle: Eise Eisinga and the Duke of Parma - Frans Maes	23		
Eise Eisinga (1744-1828) designed sundials for local time. Longitude was irrelevant. And what important event happened in Maastricht during Christmas 1582?			