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The Chairman's preface Hans Stikkelbroeck, the newly elected chairman of the Netherlands' Sundial Society, welcomes the new magazine-style journal, as well as the participation of the Flemish Sundial Society in the joint journal.	Hans Stikkelbroeck	4
Inaugural meeting, 11 March 1978 A photo from the archives of the formation of the Netherlands' Sundial Society, 40 years ago.	Editors	4
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Photo sundial An idea of Hans de Rijk: make a photo of the view from your window, calculate a horizontal sundial, choosing a conspicuous point of the building as the index, and copy it into the photo. This yields a virtual sundial.	Jacob Borsje	6
A spherical sundial from the hobby workshop A wooden sphere, 50 mm diameter, was turned into a spherical sundial mimicking the earth (front cover photo). The disk on the rotating meridian arc has the size of the moon on the same scale.	Gerard Becker	10
What could this be? A sundial from a stone working company appears to be a correct sundial if tilted 45°, facing south and rotated slightly.	Frans Maes	11
A tour of the new Netherlands' website The website www.zonnewijzerkring.nl has been renovated and extended considerably. It includes a modest English section. All 360 articles which Fer de Vries published on the website from 2003-2012 are available as 'Fer's Legacy' by download.	Frans Maes	12
Birkenau, the ultimate sundial village The sundial mania in Birkenau (some 20 km north of Heidelberg, Germany) started around 1950. Presently, more than 200 sundials are listed. Url: www.sonnenuhren-birkenau.de .	Frans Maes	15
The effect of atmospheric refraction on the sundial The effect of atmospheric refraction on the perceived direction of sunlight is calculated, as well as the consequences for hour angle and solar declination. The conclusion is that the effect of refraction on sundial reading is negligible.	Jos Pauwels	16

The analemmatic mosaic sundial in Ronse (B)	Eric Daled	21
A beautiful analemmatic sundial has been designed by artist Pjeroo Robjee, who filled the area inside the elliptic hour ring with artistic representations of the signs of the zodiac.		
Two vertical sundials in Westerbork (NL)	Hans Stikkelbroeck	23
Inspired by the next article, Hans Stikkelbroeck designed two vertical sundials (back cover photo), one reading civil time, the other one Italian and co-Italian hours (time to sunset).		
How to design and construct a vertical sundial	Patric Oyen	26
Patric describes how to determine the wall declination using Google Earth, how to calculate the dial using the Shadows software, how to edit the dial face using GIMP and have it printed on foil and applied to composite aluminum sheet.		
Quiz answer	Willy Leenders	28
The solution of previous issue's word puzzle is given.		
The new puzzle: What effects does refraction have?	Frans Maes	28
Elaborating on Jos Pauwels' article which proves that refraction does not bother the sundial, questions are posed about sunrise time and azimuth on the equinox at various latitudes, taking into account the difference between the 'astronomical' and the 'meteorological' definition of sunrise.		
Report of the meeting of 20 January 2018	Frans Maes	29
The Flemish Sundial Society has discontinued its journal Zonnetijdingen, due to lack of contributions. The members will receive the journal of the Netherlands' Sundial Society instead.		
Report of the meeting of 24 March 2018	Frans Maes	31
New Board members of the Netherlands' Sundial Society were elected: Hans Stikkelbroeck as chairman, John Souverijn and Eric Daled (also secretary of the Flemish Sundial Society). Eric and Frans Maes will be editors of the joint journal.		
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