

Colophon	Secretariat	2
Future meetings	Secretariat	2
Announcements from the Committee	Secretariat	4
Sundial with walking gnomon (addition) Helmut Sonderegger described earlier a mean-time horizontal dial with a moving (human) gnomon. Siegfried Wetzel of Switzerland analyzed the dial and found that it was calculated for a person of 1.70 meter height.	Editor	5
Students put their pen to paper Six students of the last Sundial Science course took up the challenge to contribute an article to this issue.	Astrid van der Werff	5
Mysterious ring on an armillary sphere An armillary sphere at the 'Schaep en Burgh' mansion in 's-Graveland has an unusual ring. Its possible origin is discussed. No definite answer could be given.	Peter de Groot	6
Press snippet: Ring dial symbolizes travel urge A painting by Anthony van Dyck shows Alethea Talbot, countess of Arundel holding an universal ring dial. According to Wieteke van Zeil, writing for <i>de Volkskrant</i> newspaper, it symbolizes her travel urge.	Editor	9
Remarkable 'Time of Master' sundial in St. Petersburg Within the Peter-and-Paul fortress a large equatorial sundial was installed in 2014. It consists of a double spiral from wrought iron, with the civil hour numbers from IV to XX inserted in between, and a second, horizontal spiral.	Wim Boone	10
Armillary sphere restored - a report Ijke bought a garden-type armillary sphere in bad condition and describes how he made it like new.	Ijke Brouwer	13
Press snippet: Sundial Scherpenzeel-01 will not return in park An armillosphere from 1923 was stored after being damaged seriously from vandalism and forgotten. It was recovered and will be donated to the Heritage Society of the village of Scerpenzeel.	Redactie	15
The Future of Time: a multiple sundial A new building for the storage of depleted uranium was recently inaugurated. Two sides, southeast and southwest oriented, are provided with 13 meter long horizontal gnomons at the upper corners. Shadow lines radiating from the footpoints show local solar time at the summer solstice only, so as to symbolize the slow decay of the uranium.	Astrid van der Werff	16
Press snippet: Sundial tattoo and reflection dial Woody Sullivan III of Seattle plans to have a sundial tattoo. The design and the gnomon-bearing bracelet are already there. So is a reflection sundial painted on the roof of his study. It uses a small mirror in the windowsill.	Editor	19
Contents of <i>Cadran Info</i> nr. 36 Summary of the October 2017 issue of the semi-annual bulletin of the French Sundial Society. It comprises over 200 pages, not counting 110 MB of additional material.	Eric Daled	20

Press snippet: Antique sundial uncovered	Editor	23
Widely reported was the find of a well-preserved hemicyclium sundial by archaeologists from Cambridge University in the ancient city of Interamna Lirenas, Italy. It carries the name of the person commissioning the dial, and the office of plebeian tribune he held.		
The sun does not always culminate in the meridian	Jos Pauwels	24
As the sun's declination changes slowly over the day, the sun culminates up to 18 seconds before or after passing the meridian at the equinoxes. For the moon, moving much faster along the sky, the difference may be up to 5 minutes.		
Ring dial in stone with two oculi	André Reekmans	26
A large vertical ring dial (89 cm outer diameter) is described, with two oculi. This enables the dial face to be split in two halves, for the lengthening and shortening days, respectively. This makes for easier reading of the time.		
How time measurement came to determine social life	Willy Leenders	28
A philosophical essay on the effect of the upcoming of time measurement on the structuring of social life. Based on the work of Rüdiger Safranski.		
Two new sundials discovered	Janneke Groeneweg	30
Janneke Groeneweg found two dials not yet registered: a vertical dial on the city hall of Terneuzen, dating from 1972, and an analemmatic dial near the environmental education centre in Zwolle, dating from 2013.		
Solar altitude and hours to sunset	Frans Maes	32
Steve Lelievre reported on the Sundial Mailing List that solar altitude at a given time before sunset is rather constant over the summer half-year, with two peaks on both sides of the summer solstice. Willy Leenders corroborated and expanded this result. Frans Maes explains it based on the shape of the daily solar trajectories over the celestial sphere.		
A double direct north dial in mosaic	Patric Oyen	33
Patric Oyen designed and made a direct north dial with separate dials for early morning and evening hours.		
Sundials in the Netherlands database	Thibaud Taudin Chabot	34
A search for new sundials using internet sources yielded over 50 sundials not yet registered. The total now stands on 1059 objects.		
Quiz answer	Frans Maes	35
The answer to the question "How long does a day live?" is given.		
The new puzzle	Willy Leenders	37
Willy Leenders designed a three-step puzzle, using terms from the Sundial Science course.		
Report of the meeting on October 14	Secretariat	38
Contents of Bulletin	Editor	41
Table - equation of time and declination for 2018	Thijs de Vries	43