

*Introduction new website*

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A new website for the "Zonnewijzerkring" (sundial association) is nearly finished. This site is suitable for PC's, tablets and smartphones. On page 2 you will find the QR-code which gives you direct access to the website. Our webmaster for several years was Fer de Vries who maintained the site, but unfortunately he is ill and it seems he will not fully recover. That's why the board decided last year to invest in a new site. Hendrik Hollander is guiding the project and you will see a screen print of our website. At the same time in this article we ask our members to contribute to the item "Sundial of the month".

*"Bling Bling" or "ping ping" (freely translated as "Is it shining or something worth")*

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In this case we received a question about a ring found during an excavation in the town of Woerden. It was recognized by Frans Maes as a peasant ring. A simple sun height measuring device telling the time. In this case the object is not complete anymore. In the south of France a lot of replicas are offered and Frans Maes shows a miniature he bought and is in his possession that is a look alike sundial.

*Revolutionary Sundials by*

*Frans Maes*

page 6 to 17

This is a comprehensive article about the sundials, clocks, time and calendars that were developed and introduced after the French revolution in 1789 the 14th of July. From a kingdom to a republic. Everything had to change. A day of 10 hours, a week of 10 days, a month of 30 days.

This system didn't last for long and not many sundials from that time are still alive and in good condition.

Frans Maes retrieved a lot of information about the old sundials from that time and some relatively new sundials based on the revolutionary system. A lot of side information about the history of that time is given and the sources used for this article.

*Publications of foreign sundial societies*

*Ad vd Hoeven*

page 18

Ad vd Hoeven gives a Dutch summary of a French bulletin of our sister society "Cadran Solaire".

*An old familiar sundial.*

*Jacob Borsje*

page 20

On a church in Hardinxveld Giessendam the sundial over there has already been a lot of times a subject of discussion in our sundial society. Restorations were performed in such a way that it was impossible to read the right time. Attempts from our side to improve the situation didn't work out. Jacob Borsje tried to reopen the discussion with the local responsible persons making use of the event that there was a contest about this sundial in a newspaper. But even now the result was zero and the reward of that contest went to somebody else.

*Reviews of our readers*

*Hendrik Hollander*

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This is an invitation to our members and readers to comment in the next bulletin about the contents of this bulletin.

*Sundial for the City of the Sun*

*Lou Güse*

page 24

In a district of Heerhugowaard (in the area of Alkmaar) the recent buildings and houses are engineered in such a way that they are very low depending on heat supplies with sources like electricity or natural gas. Sun collectors are mounted on every roof you see in that part of the town. A sundial was a missing object in that area and the local observatory made a proposal to the local authorities to give the inhabitants an analemmatic sundial. This article describes the advise and calculations to the municipality and the realisation of that sundial.

*A puzzle*

*Han Hoogenraad*

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Readers and members are challenged to solve this puzzle and to respond with the right answer and a good explanation.

*A sundial with a reversing shadow*

*Ad vd Hoeven*

*page 31*

An article about a trial performed by the French astronomer Nicolas Camille Flammarion with a phenomena that a shadow from a gnomon of an analemmatic sundial under a certain angle at some point in time is reversing.

*The phenomena of the reversing shadow*

*Han Hoogenraad*

*page 34*

An comprehensive explanation supported by drawings and calculations about this phenomena. A home trial with some simple attributes shows how the mystery is unravelled.

*Remembering our deceased members*

*Frans Maes*

*page 39*

Marten Hugenholtz and Bote Holman honourable members of our society will be remembered for the things they made and did for us.

*Minutes of the annual meeting*

*Hendrik Hollander*

*page 43*

*The time correction between solar time and clocks time is depending on the angle between the axis of the earth and the ecliptic four times in a year zero.*

*Han Hoogenraad*

*page 47*

A theoretic approach to explain this effect on the time correction.