

Sundial on Deil church to be unveiled *K. van Drunen* 3

The new Deil Sundial is a step towards the realisation of a Sundial Walk in this region. Those interested are invited to be present at the unveiling of the new sundial on May 27th.

Budel-Dorplein can tell time *F.W. Maes* 4

When ideas were invited for the embellishment of a remaining plot in this village, Frans Soers's sundial plan won. His initial idea for an analemmatic dial was rejected, because the dial would work out too small. Instead, a horizontal pole style dial was built. Inspired by a similar design in the Genk Sundial Park, the designers included an arched wall and ceramic trimmings.

The financial crisis made itself felt here as well, but against all hardships, the sundial was finished according to the original plans. One highlight must surely be the concrete sun sphere, tiled in ceramic by volunteers.

There are Roman numerals in the bottom of the wall, and declination lines for equinoxes and solstia; there are no hour lines. The zodiacal signs are again mosaic.

Annual meeting, 19 March 2011 *secretariat* 9

Present: thirteen persons. De Groot opens and welcomes guest Ten Kleij. – De Groot looks after the *Sundials in The Netherlands* archives. – The field trip will be in the Asten district. Nineteen persons have entered. – Annual report approved. A decision to publish a members list from time to time, starting this Bulletin. – Financial report 2010 and estimate for 2011 approved. – Cash audit – Hans de Rijk is re-elected as member of the committee (applause). – Other business: a proposal to have the 2013 field trip in Greenwich; Spruijt investigates. Hollander to write about this in the next Bulletin. Visit perhaps when BSS have their congress. – De Groot closes official proceeding.

Pals measured angles between arcs on cockle shells and found them to be 12.5 degrees exactly. – Maes: restoration of the Echten Twins sundials. What were the gnomons like? Proposals. A model. Shape and size of a gnomon are derived from photographs. – The Amersfoort Sun Pointer does not always point towards the sun. Maes has photos showing this. – Van Drunen found an internet clip featuring the Prague astronomical clock. – Deil Sundial to be unveiled 27 May in private function, 29 Sept in public. – De Vries checked an east-German north wall sundial with many lines; they seem correct, although a replica has the zodiacal signs wrong. – Sasbrinks shows photos of his dials. – Hollander made a bronze sundial (see picture) for Switzerland. – De Groot: a documentary to be made about Hans de Rijk who, incidently, recently turned 85. – On Sicily, Ten Kleij found several sundials showing the '13th zodiacal sign' of Ophiuchus, in which the sun does reside for a few days each year. Hollander knows of a sundial in Zaandam which shows the sign; Fer mentions one in Genk.

Peter Louwman knighted *notice received* 12

On 29 April, Louwman was dubbed Officer in the Order of Orange-Nassau. Louwman, whose collection of optical instruments hardly any museum could match, frequently talks and publishes on the subject, and often lends out his possessions to public displays, such as the large exhibit on 400 Years of Telescopes in Middelburg and Leiden.

Chronicles, 2010 *secretariat* 12

There were meetings in January, March and September. The June field trip was unfortunately cancelled for lack of entries. Three Bulletins appeared. The Hagen legacy moved from storage to Vesters. The Society archives moved from De Vries to Vesters.

In June, the Society was present at the Deil Art show, with documentation and models, a presentation, and cardboard dial building.

On 31 December 2010, there were 110 paying members and two honorary members: De Vries and De Rijk.

Rectification *editors* 13

In B105, the paper *A new light on the oldest known sundial* was, of course, written by Willy Leenders and not by Symons, who was the subject of his paper.

Thrice One Hundred: Fer's Web Anniversary *editors* 13

The Society's web site features three new articles every month: Sundial of the month, Work by members, and Article of the month.

Those of April 2011 were each the hundredth. All these excellent contributions were written and edited by Fer de Vries.

(And it has been the privilege of yours truly to have translated all three hundred of them into at least some sort of English. – RH)

"Roman clock" in Houten reads antique hours *F.W. Maes* 14

Artist Kolsté wanted to confront Economic Man with a more natural concept of time, and stumbled upon Antique, or unequal, hours. For an archaeological tourist route, with the help of the author, she designed and made a Roman Clock: a sundial that reads time in unequal hours, in which the daylight period is always twelve 'hours' long. Figure 1 shows some of the design stadia. A plaster model was finished in 2007.

The sundial is shaped like a shell, with the folds serving as hour lines. The correct placement of these was found using an auxiliary dial on glass, by projecting its hour lines onto the shell's inside.

The bronze dial was unveiled on the autumnal equinox of 2011. The 'site acceptance test' showed an accuracy of better than half a degree, not at all bad for such an unwieldy lump of bronze.

<i>About antique hours and matching clocks</i>	<i>F.W. Maes</i>	<i>18</i>
<p>Antique, unequal or seasonal hours divide the daylight period of the day into twelve hours. These hours are therefore long in summer and short in winter. The difference depends on latitude; see figure 1. Fig 2 shows seasonal hours for Utrecht over one year.</p> <p>Antique hour lines on cone-shaped dials were usually drawn as straight lines, and as great circles in spherical dials. While a good approximation, this is really incorrect; they should have a slight S-curve. The difference remains very small for lower latitudes, but it begins to be visible in the 3 and 9 hour lines in the Roman Clock of Houten.</p> <p>The Leiden archaeological museum has a hemicyclium dial from Athens (fig 3), and, besides the Houten dial, there are two other modern seasonal-hours sundials in The Netherlands: one by Roebroeck (fig 4) and the Column of the Gods sundial in Nijmegen (fig 5), the latter based on the large dial of emperor Augustus – the dial we now know never existed.</p>		
<i>Literature: BBS, Sept 2010; NASS, Sept 2010</i>	<i>F.W. Maes</i>	<i>22</i>
<p>The source material is in English</p>		
<i>Program for the Field Trip of 18 June 2011</i>	<i>H.J. Hollander</i>	<i>27</i>
<p>This year we feature the Helmond Sun Garden, the Sun Temple of Lierop, the Asten Museum with the 'Dondi' astronomical clock, and a lecture on Islamic sundials by Van Gent.</p>		
<i>Contents of B106, May 2011</i>	<i>R. Hooijenga</i>	<i>28</i>
<i>List of members of De Zonnewijzerkring</i>	<i>board</i>	<i>31</i>
<i>Colour pages of B106</i>	<i>editors</i>	