

# Contents of ZON & TIJD 2022.4 (nr. 143, December)

Editors

- 3 **Editorial: Winter**  
The year can be divided into seasons based on various criteria: astronomical, meteorological, religious. And the return of the sun is celebrated in different ways in different cultures.
- 4 **From the NL Board - Secretariat**  
The January meeting is cancelled. Three proposals for restoration of the Nicolaas Beets House sundial were received.
- 4 **From the Sundial Society of Flanders - Eric Daled**  
The exhibition 'Alexandria: evaporated futures' in the BOZAR in Brussels has some ancient sundials and an astrolabe.
- 5 **Obituary: Eric Van Gassen - Jo Vaerewyck**  
They met through the sundial course in 2020, when it appeared they were fellow townsmen.
- 6 **A Belgian portable altitude dial - Sue Manston**  
Translation of the article in BSS Bulletin 34(iii), Sept. 2022. Sue gives two suggestions how this dial could have been used.
- 8 **Obituary: Dees Verschuuren - Frans Maes**  
Dees was a member since 1986. He contributed to the Bulletin as well as by organizing sundial excursions. And he designed several interesting sundials.
- 9 **A fairy tale analemmatic sundial near Bladel - Astrid van der Werff**  
Together with her class, Miss Kiet wrote a fairy tale 'The present of princess Jara'. It won a prize in a competition of the Efteling amusement park. From the prize money a nature reserve was created, to which an analemmatic sundial was added.
- 12 **A dial gone astray at Rolduc Abbey - Willy Leenders**  
The abbey has a direct south dial with an asymmetric hour line pattern. An analysis revealed that it would be correct at 29° N, declining 17° east. How the sundial got here, remains a mystery.
- 14 **Obituary: Ton Pel - Peter de Groot**  
Ton was interested in astrolabes and wrote a book about how to make your own astrolabe.
- 14 **The sundial in Momignies - Eric Daled**  
An inverted equatorial dial, with a perforated hour ring forming the hour numbers was constructed in this Walloon city.
- 15 **Why is 18 September the shortest day? - Frans Maes**  
A Belgian tv station ran an article about this question. Frans explained that the derivative of the equation of time graph has its maximum on that day. The longest day is around December 22.
- 16 **A wrinkled time - Mieke Steenhout**  
Mieke remembers her first sundial, glued together after a picture in her brother's boys' book.
- 17 **Workshop 'Laying out an analemmatic dial' - Henk Hietbrink**  
An instructive workshop, given by Frans Maes. Due to the weather, three dials were laid out in a hall, using a major axis of 4 meter.
- 18 **Plane sundials around 1450. On the lecture notes of a student from the Low Countries - Karlheinz Schaldach**  
Two medieval manuscripts reveal how note taking could go astray, but also that around 1450 gnomonists perfectly mastered the construction of pole-style dials.
- 26 **Art and gnomonics in Amersfoort - Hans Schipper**  
Using sundials seen on a bike ride through the city, Hans discusses to what extent correct sundials may be integrated into works of art.
- 30 **Puzzle - Frans Maes**  
Making use of the approximate symmetry of the equation of time analemma, is it possible to have a single form correcting EoT for the entire year? Yes, using an 'analemma gnomon'. Depending on the date, the leading or trailing shadow edge should be used for reading the time. And how accurate would it be? Less than two minutes.  
The new puzzle: One sees a paving stone with 'XII'. Is it part of a sundial? And where is the gnomon?.
- 33 **Report of the 28th AGM of the Flemish Sundial Society - Eric Daled**  
The meeting was held in Antwerp. The 2022 annual reports and the 2023 budget proposal were endorsed. The viewing of sundials in the storage area of the nearby MAS museum was somewhat disappointing.
- 36 **Report of the meeting of 17 September in Tricht - Secretariat**  
Nicolàs de Hilster gave a talk on the development of instruments for early modern nautical navigation. Hans Schipper gave a presentation on sundials at the National Mathematics Days. Peter de Groot saw sundials on his trip to Denmark. Lidi Schoorel tries to get an adjustable sundial in Vlissingen returned. Karine van Drunen showed intriguing sundials from Italy. Jan De Graeve, chairman of the Sundial Society of Flanders, presented a copy of a booklet with sundial models from the late Aimé Pauwels to Dutch chairman Hans Stikkelbroeck. All members will receive a copy.