

Contents of ZON & TIJD 2022.1 (nr. 140, March)

Editors

- 3 **Editorial - Editors**
On the number '100'.
- 4 **From the NL Board - Secretariat**
Following the alleviation of corona restrictions, the March meeting, which will include the 2022 AGM, will be held in Tricht.
- 5 **From the Sundial Society of Flanders - Eric Daled**
A multi-volume book on earth measurement by Jan De Graeve; the winter solstice captured; sundial in Aalst destroyed; multiple sundial on Ghent town hall restored.
- 6 **News flashes - Editors**
Authors are sought for the Portici Ham and the Canterbury Pendant sundials; Astromedia's universal ring dial kit available again; BSS Bulletins 1978-2010 available online.
- 6 **Puzzle - Frans Maes**
Questions about a south-declining vertical sundial.
- 7 **Obituary: Hans de Rijk - Hendrik Hollander**
Hans de Rijk (1926-2021), founding member and honorary member, died last November. He is remembered most for his ambition to share his knowledge and skills with other people.
- 8 **May I introduce myself - Edo Walda**
The new treasurer introduces himself briefly.
- 9 **A new ϕ -independent sundial - Hans de Rijk**
One of the most important contributions of Hans de Rijk to gnomonics is the latitude-independent sundial. This article from 1983 describes the principle.
- 12 **The ϕ -independent sundial in practice - Hendrik Hollander**
The functioning and use of a fine specimen of the latitude-independent dial is demonstrated.
- 13 **Epilogue - Frans Maes**
A comparison between a suggested realisation of the principle of the latitude-independent dial (p. 9) and the actual instrument (p. 12) reveals some interesting improvements in the latter.
- 14 **The meridian line of the former palace of the Prince-bishops in Liege - Eric Daled**
The eastern courtyard of the former palace has an 18th century noon line. It has hour lines from 11:30 to 12:30 hr per 10 mins, and 7 date lines. It may have been commissioned by Johann Theodor of Bavaria and executed by clock maker Gilles de Befve, and was restored in 1980 by José Bosard.
- 18 **Sundial tourist in Rouen - Hans Schipper**
Hans visited the famous astronomical clock and six sundials in Rouen (France). With nice photos.
- 21 **Wall declination: an error analysis - André Reekmans**
What is the error in time and date readings when the wall declination is 1° off? André derives the equations and uses a dial declining 52° W as an example. The maximum time error is 3 min.
- 24 **Greenwich upon Scheldt. Time measurement in Antwerp port in the 19th century (part 3) - Joris Willems**
After decay of the second maritime observatory with time ball from 1855, a time signal installation was built on the tower of the former Hanseatic House in 1882. It had time flaps which were rotated out of view at 1 pm GMT. The building burned down in 1893.
- 29 **Sundials from past tot present (part 2) - Frans Maes**
This second part of an article written for a clock magazine reviews briefly the development of sundials from the 18th century to the present. It concludes with bifilar and digital dials.
- 32 **Annual report 2021 of the Netherlands' Sundial Society - Secretariat**
- 33 **The treasurer's report 2021-2022 of the Netherlands' Sundial Society - Treasurer**
- 34 **Contents of this issue - Editors**
- 35 **Information on the Netherlands' Sundial Society and the Sundial Society of Flanders - Editors**