

Contents of ZON & TIJD 2024.3 (nr. 150, September)

Editors

Hint for the digital version: a mouse click on an entry brings you to the page where the article starts.

3 **Editorial: 150 - Editors**
The first issue of the 'Bulletin', predecessor of 'Zon & Tijd', appeared in July 1978. Topics addressed at the time still return today.

4 **From the NL Board - Secretariat**
Hans Stikkelbroeck resigned early as chairman and temporary secretary. He held the chair for six years and organized several excursions. An extra AGM will be part of the September meeting. Three members are nominated for election in the Board.
The Society welcomes three new members.

5 **From the Sundial Society of Flanders - Eric Daled**
The AGM was held in writing this spring. The annual activity and financial reports were approved. No candidates for next year's Board elections stepped forward.
A 16th c. sundial in a gold signet ring was seen in the magazine of the Horological Society.

6 **Excursion in the Nijmegen region, 6 July 2024 - Ruud Hooijenga**
A group of 36 participants visited some ten sundials in and around Nijmegen by coach. The final stop was in the 'Bastei', a museum in a former bastion at the Waal river. Frans Maes gave a presentation on the sundial at the 'Godenpijler' monument that was pulled down recently.

11 **Column: Hanging time - Mieke Steenhout**
Mieke reflects on her grandfather's pocket watch. She prefers the stationary sundial over the agitation of the relentless clock hand.

12 **The most accurate calendar in history - Antonio Bernal González**
A translation of his article in La Busca de Paper nr. 105, the magazine of the Catalan Sundial Society.
The most accurate calendars that humanity has had up to date are the Persian, which has an error of 1 day in 4,300 years; the Gregorian, used today in almost the entire world, whose error is 1 day in 3,200 years and the Revised Julian, which is the official one of some Orthodox churches and whose precision is one day in 31,500 years.
Bernal presents a sober calendar, easy to implement without any social or economic trauma and with an accuracy of 1 day in 300,000 years. If it were imposed, no ordinary citizen would notice it.

16 **A diptych sundial by Hans Troschel - Frans Maes**
The diptych sundial from 1610 in the collection of the Groningen Museum is described in detail.

23 **The sundial at the 'Bullekerk' church in Zaandam - Frans Maes**
In addition to hour and date lines, the sundial has lines for altitude and azimuth. An information panel on how to read the dial has been set up recently. The dial was restored lastly in 1979, but is in rather bad condition now. A new restoration is being hoped for.

26 **Book review: Kevin Karney, 'The Equation of Time' - Frans Maes**
Karney calls his book – a result of a life-time fascination with the subject – not a text book, but a book of references, a picture book and a catalog of some of his ideas. It offers everything you would like to know about the EoT, and more. The construction of the 'Bury St. Edmunds curve' is discussed.

29 **Equation of time in terms - André Reekmans**
The EoT is usually considered as the sum of two sine curves. André examines how well these components can be derived from a Fourier series or from the 'Kepler term' (due to the elliptic earth orbit) and the 'ecliptic term' (due to the oblique earth axis).

32 **The Dutch sundial register - Gerard van den Braak**
A progress report. Gerard chairs the committee that unifies and updates the present paper and digital registers. The question of how to define a 'multiple' dial is discussed.

33 **Puzzle: birthday present and sunrise angle - Frans Maes**
The old puzzle asked for the design of a sundial on which the shadow of the gnomon vanishes on the date and hour of birth of the beneficiary.
The new puzzle asks for an equation for the angle of the sun's path at sunrise as a function of latitude and solar declination.

34 **Contents of this issue – Editors**

35 **Information on the Netherlands' Sundial Society and the Sundial Society of Flanders**