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EXTRACTION OF 16TH CENTURY CALENDAR FRAGMENTS
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BACKGROUND
FRAGMENTS: A HIDDEN TREASURE
Pieces of rare texts, such as medieval manuscripts, may be found as part of the binding of 16th and 17th century books. Such pieces are termed “fragments”. Often, these fragments will be extremely well preserved and may provide hitherto unknown information to medieval historians.

RARE AND OLD CALENDARS
Calendars made in the medieval and early modern period were made for perpetual use. This was achieved with the so-called repeating dominical letters next to the date. This would be used in combination with a table to establish the day of the week. Calendars could also be used to determine the astrologically correct time for bloodletting. Finding fragments of such calendars is very rare.

PURPOSE AND HYPOTHESIS
A search through the 16th and 17th century volumes in the Diocese Library of Funen, held at the University Library of Southern Denmark, led to the finding of visible calendar fragments in the binding of a 1580 Latin volume on civil law. The use of German language on these fragments and the depiction of astronomical/astrological symbols made it relevant to look for a German astronomer. The working hypothesis was that this could be a 15th century calendar either by the German mathematician and astronomer Johannes Müller von Königsberg, also called Regiomontanus (1436-1476), or the Austrian astronomer, mathematician and early instrument maker, Johannes von Gmunden (ca. 1380-1442).

IMAGES

The extraction of the calendar fragments requires a careful dissection of the old bookbinder’s glue and a meticulous detachment of each calendar leaf. For documentation, each leaf is being photographed by the conservator of Odense City Museums. The 1580 book has an outer cover of parchment made from a reused and possibly medieval manuscript leaf. The inside of this parchment, containing writing, is being photographed as well. The calendar fragments are made from paper with woodcut illustrations. A well-preserved title leaf makes it possible to easily identify the fragments, whereas other fragments may require extensive use of Big Data and other forms of analysis in order to be identified. Usually, the university library prefers not to remove the fragments from their “fragment carriers”. In order to read fragments that are only partially visible or invisible, new technology may be deployed at the Cultural Heritage & Archaeometric Research Team, SDU. Upon finding medieval manuscript fragments, in the university library’s special collections, scholars at the Center for Medieval Literature are consulted. In most cases, digital pictures of the finds will circulate in the international community of medieval scholars. Thousands of 16th and 17th century books are stored in the University Library of Southern Denmark. One out of five of these books is expected to contain medieval manuscript fragments or fragments of rare prints, e.g. incunabula.

TITLE LEAF FRAGMENT OF: ALT VNND NEW SCHREIBKALENDER / DER PRACTICA / VNND VEREIHUNG DER FEST / AUFF DAS JAHIR NACH CHRISTI GEBURT / M. D. LXXXI. [1591]

Author: Lucas Bathodius (c. 1541 - c. 1598), doctor and astronomer/astrologer in Pfalzburgh (Phalsbourg).
Publisher: Nicolaus Waldt am Kornmarck, Strasbourg (Strasburg) 1590

The “fragment carrier”: A relatively small book, bound in parchment, containing a copy of Institutiones Iura Civile by Theophrastus [et alii], Lyon 1580. Format: 24mo

Fragments in the binding: 21 calendar fragments were fitted in the binding of the book. The fragments were part of the permis’ “paring”. Format: 16mo

The Zodiac Man: In the middle ages and early modern period, astrological signs were seen as connected with different parts of the human body. This was in accordance with the ancient belief of the microcosm connected with the macrocosm.

CONCLUSIONS
The extraction of the calendar fragments made it possible to initiate further analysis, and at the same time make rare material available for historians. In the process, it soon became clear that the German astronomers Regiomontanus and Johannes von Gmunden were not the authors of the calendar in question. As documented by the remains of the calendar’s title leaf, the author is Lucas Bathodius (the younger) of Pfalzburg. He was a follower of the works of Renaissance philosopher, physician and astronomer, Paracelsus (Theophrastus Bombast von Hohenheim, 1493-1541). Lucas Bathodius was famous for his astrological and prognostic works in the second half of the 16th Century, using the following epigrams: „Medicus & Astronomiae Studiosus zu Pfalzburg“ & „Fürstlicher Pfalzgräfler Medicus zu Simmern“.

BIBLIOGRAPHY
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