

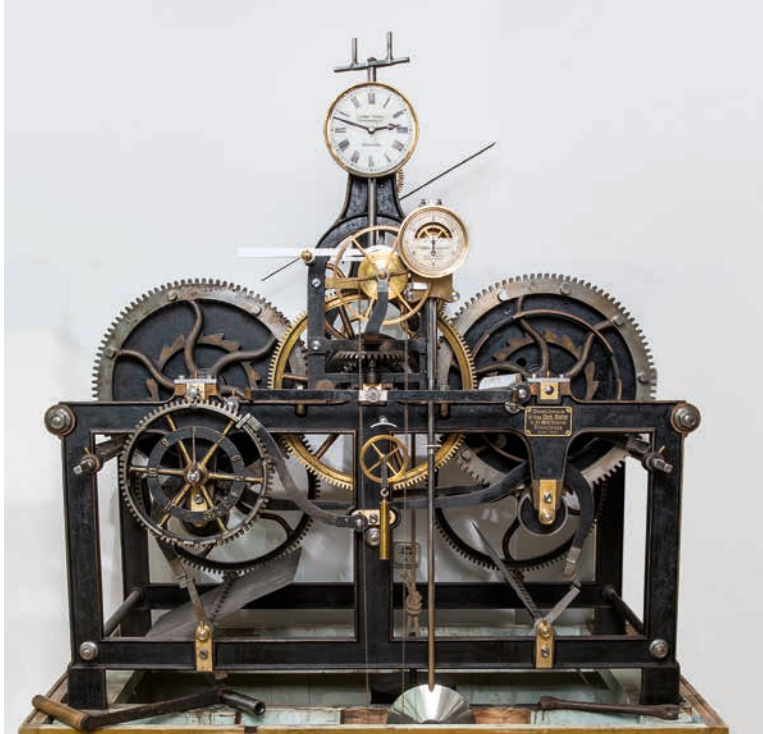


CHAPEL WITH A HISTORY

For many centuries, tower clocks have been distinctive, audible proclaimers of faith. They affirm the Gospel message regularly every hour. Tower clocks bear witness to the passing of life, each in its own individual way.

They are more than just articles of everyday use – their artistic design, theological message and technical finesse turn them into real personalities. Where could these "contemporary witnesses to time" be better accommodated than in a former chapel with a special history?

This historical building in the centre of Mindelheim was donated and built in 1409 for Duchess Anna von Teck, daughter of a Polish king, and is held in high esteem even today.



PRECISION IN PERFECTION

Accurate measurements of time were useful for astronomers and indispensable for seafarers, in order to determine the position of a ship.

As railways gradually modernised the transport system, it became necessary to coordinate timetables that required uniform times for specific time zones. Central European Time was introduced in 1893. As early as the 19th century, special escapements and pendulums enabled tower clocks to attain a degree of accuracy that had previously only been achieved with precision pendulum clocks.

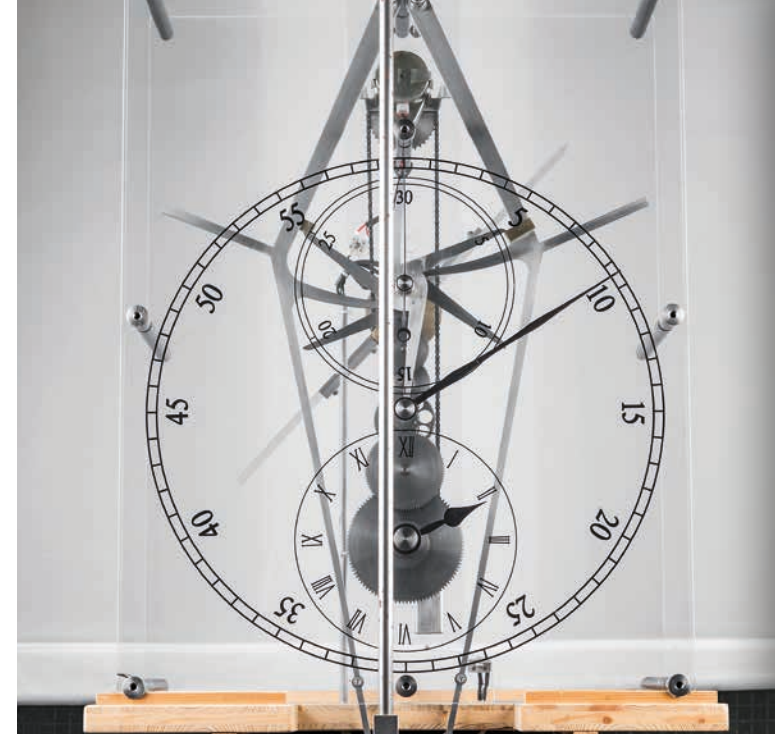
In the museum, a mechanical tower clock is demonstrated and explained, which for over half a century, was "the most accurate in Bavaria and probably even in the whole world" (D. Riefler).



ASTRONOMICAL MARVELS

As early as ancient times, "astrolabes" were used as scientific instruments and, in the later Middle Ages, highly valuable astronomical clocks were installed in churches, on town halls or city gates, for making astrological interpretations based on the constellation of the sun, the moon and the stars. The knowledge and the artistic skill of the clockmakers is still admired today. Today, it is hard to imagine how these modern masterpieces were created without the help of modern tools.

Our museum houses a replica of an astronomical clock dating from 1529. A very special movement operates the moon, sun, dragon and zodiac pointers on an astrolabe with different rotation times, so that eclipses, the lengths of day and night or the phases of the moon can be indicated, among other things.



THE FASCINATION OF CLOCKS – THEN AND NOW

Superlatives impress – even with timepieces! Who built the first and oldest mechanical clock, and where? Which is the most complicated, the most expensive, the smallest ...?

The tower of the former Chapel of St. Silvester provided the opportunity to realise a unique project. To mark the occasion of the 25th anniversary of the museum in 2004, the "Kapell clock" was put into operation.

It has what was once the longest pendulum in the world with a length of 26.14 metres and integrated compensation, a mallet pendulum bob weighing approx. 120 kg, moved in a 5-second rhythm by a modified Denison escapement, driven by a weight of only 150 g. The seconds, minutes and hours can be read on the chronometer dial.

Translation: Catherine Taylor



SWABIAN TOWER CLOCK MUSEUM

History – Technology – Works of art



TIME AS A TANGIBLE EXPERIENCE

The Swabian Tower Clock Museum, founded in 1979 by the teacher Wolfgang Vogt is a very special experience: for children and young people, adults, laymen and specialists.

There is no peace and quiet in this museum, where giant chronometers tick, levers engage, wind vanes are set in motion, a historical bell is rung by hand, or a flute clock starts to sing. The collection, which is located in the former Chapel of St. Silvester, contains approximately 50 tower clocks dating from five centuries and is the most comprehensive of its kind in Germany.

During the guided tour, visitors climb the chapel tower in the town centre (48 metres high) in gentle stages and experience to the full the history surrounding the ancient timepieces. The tower houses the second-longest pendulum in the world, which is over 26 metres long and swings back and forth every 5 seconds.



MEMENTO MORI ...

A few decades ago, the era of the mechanical tower clock came to an end. Almost all tower clocks were decommissioned and replaced by fully electric main clocks and digital quartz clocks.

At the end of the 13th century, the first foliot clocks called monks in monasteries to prayer and councillors to meetings, and regulated the beginning and end of markets and the closing of the town gates.

As early as 1414, there is evidence of a clockmaker called Heinrich in Mindelheim, who probably took care of the timepieces in the newly constructed parish church and the Chapel of St. Silvester. At the beginning of the 16th century, the clockmaker Mathias Reit became famous far beyond the borders of Mindelheim for his unusual clocks.

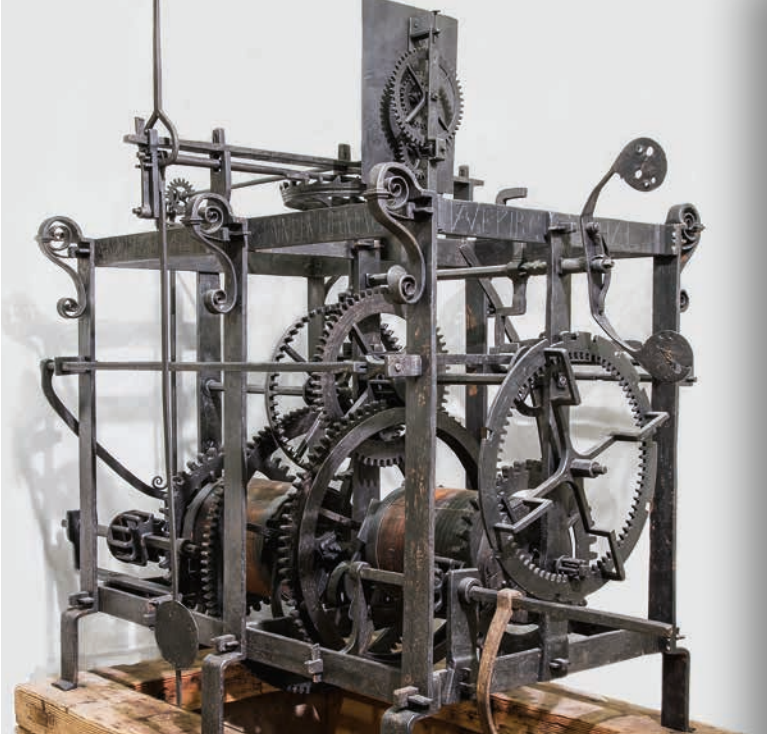


THE TOWER CLOCK – A WORK OF ART

Michael Silbernagel (1699–1755), son of a blacksmith and armourer, entered the Franciscan monastery in Schwaz in the year 1723. He adopted the name of Brother Johann Capistran and modernised the cathedral clocks in Brixen and Bozen.

In 1749, at the age of 50, he came to Füssen where he made his second last clock (see title page). This work of art impressively demonstrates that the timepieces of the day were not only intended to provide perfect service, but also to "praise the master of all things", as Peter Henlein once said.

A mere 50 years ago, tower clocks were all too often thought of only as inaccurate veterans of timekeeping, and many were decommissioned, whereas today, they are appreciated all the more as a forgotten cultural heritage.



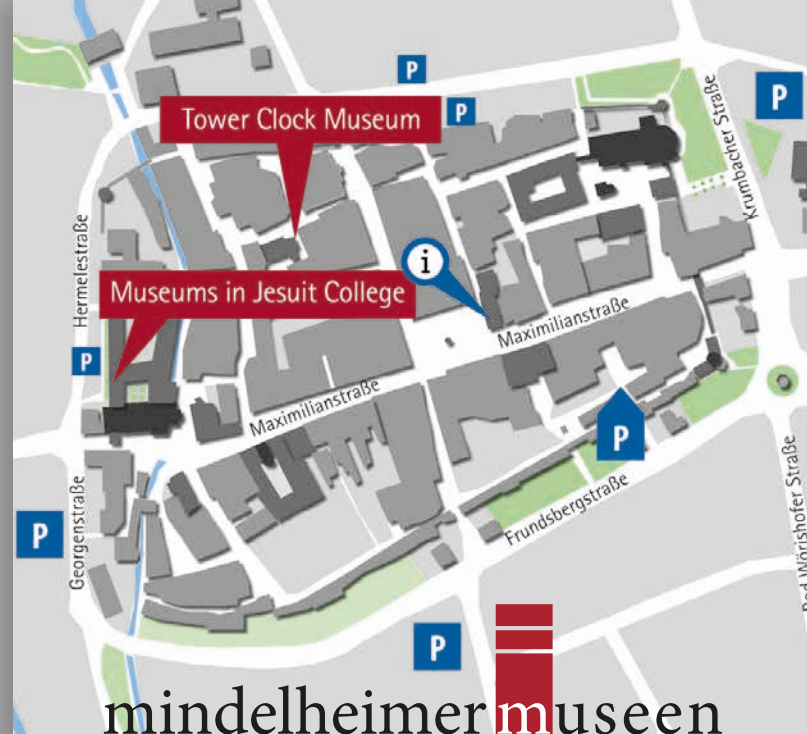
MASTERS OF THE TRADE

Throughout the centuries, the blacksmith was an important craftsman. He was able to shape red-hot iron by hammering, stretching, pressing, smoothing, perforating etc.

Among the specialists in the field were not only artist blacksmiths and armourers, but also tower clock makers. They needed to know how to calculate gear ratios, transfer graduations to cog wheels, harden bearings and shape teeth.

Some famous 18th-century tower clock makers in the Allgäu region were Franz Xaveri Liebherr from Immenstadt, Josef Bernhard from Rettenberg and Johann Luitz from Kühbach. Over four generations, the Barensteiner family built high-quality tower clocks in Kirchthal near Seeg, equipping churches, monasteries and castles in the region of the Hochstift Augsburg.

Translation: Catherine Taylor



mindelheimer **m**useen

Museums in the former Jesuit College building
Textile Museum – Sandtner Foundation
Swabian Nativity Museum
Southern Swabian Archaeological Museum
Carl Millner Gallery – Romantic Landscape Painting
Opening hours: Tues. to Sun. 10 a.m. – 12.00, 2 p.m. – 5 p.m.
and by arrangement

The Museum of Local History is temporarily closed

Swabian Tower Clock Museum
in the former St Silvester's Chapel
Opening hours: Wed. 2 p.m. – 5 p.m.
last Sunday in the month, 2 p.m. – 5 p.m.
and for groups by arrangement.



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