EFTF

Organized by esa

20-23 April 2026
Noordwijk, Netherlands

Technical Sponsors

IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society

4th CALL FOR PAPERS - Deadline Extension

The European Frequency and Time Forum (EFTF) is an international conference and exhibition, providing information on recent advances and trends of scientific research and industrial development in the fields of Frequency and Time.
We look forward to welcoming you to the 39th edition that will be organised by the European Space Agency (ESA).
Following the tradition of this conference, tutorials, plenaries, invited presentations as well as parallel oral and poster presentations, will provide to attendees with a unique overview of the state of the art in the fields. The hosting venue is the Conference Centre Leeuwenhorst in Noordwijk, the Netherlands, close to the ESA-ESTEC campus and in the core of the Bollenstreek region, well known for tulip meadows which are at their best in the April period.
Social events and an exhibition area will provide on-site participants with the opportunity to renew friendships with colleagues, interact with customers, meet students and form new collaborations.

CONFERENCE TOPICS

- **Materials, Resonators, and Resonator Circuits**
- **Oscillators, Synthesizers, Noise, and Circuit Techniques**
- **Microwave Frequency Standards**
- **Sensors and Transducers**
- **Timekeeping, T&F Transfer, Telecom and GNSS applications**
- **Optical Frequency Standards and Applications**

Details are in the next page

EXTENDED ABSTRACT SUBMISSION DEADLINE: 18th of November 23:59 UTC

~~11~~ 18 November, 2025	12 January, 2026	20 February, 2026	20 April, 2026	21-23 April, 2026
Abstract Submission Deadline	Acceptance Notification	Early Registration Deadline	Tutorials	Conference Dates

Organisers:

General co-Chairs	Scientific Chair	Academic Chair	Tutorial Chair	Exhibition Chair	Awards Chair
Marco Belloni *European Space Agency* **Jörg Hahn** *European Space Agency*	**Jérôme Lodewyck** *LTE, LNE-OP, Observatoire de Paris*	**Rachel Godun** *NPL—National Physical Laboratory*	**Filippo Levi** *INRIM*	**Ronald Holzwarth** *Menlo Systems*	**Per-Olof Hedekvist** *SP-RISE*

***Local Organising Committee**: Elisabeth Laier English, Sinda Mejri, Marnix Meersman, Sophio Pataraia, Cedric Plantard, Bernardino Quaranta, Paride Testani*

DETAILED SUB-TOPICS

Group 1 : Materials, Resonators, and Resonator Circuits

- Fundamental Properties of Materials
- Micro/Macro-Fabrication Technology for Resonators and Filters
- Theory, Design, and Performance of Resonators and Filters, including BAW, FBAR, MEMS, NEMS, SAW, and others
- Reconfigurable Frequency Control Circuits, e.g., Arrays, Channelizers

Group 2 : Oscillators, Synthesizers, Noise, and Circuit Techniques

- Oscillators – BAW, MEMS, and SAW
- Oscillators – Microwave to Optical
- Heterogeneously Integrated Miniature Oscillators, e.g., Single-Chip
- Synthesizers, Multi-Resonator Oscillators, and Other Circuitry
- Noise Phenomena and Aging
- Measurements and Specifications
- Timing Error in Digital Systems and Applications

Group 3 : Microwave Frequency Standards

- Microwave Atomic Frequency Standards
- Atomic Clocks for Space Applications
- Vapor-cell Atomic Clocks and other cell-based sensors and instruments
- Atomic interferometers
- Fundamental Physics tests with Clocks, and other Applications

Group 4 : Sensors and Transducers

- Resonant Chemical Sensors
- Resonant Physical Sensors
- Vibratory Gyroscopes & Magnetometers
- BAW, SAW, FBAR, and MEMS Sensors
- Transducers
- Sensor Instrumentation

Group 5 : Timekeeping, T&F Transfer, Telecom and GNSS applications

- TAI, Timescales and associated Algorithms
- GNSS and Applications
- Telecom Network Synchronization
- Time and Frequency transfer
- Frequency and Time Distribution and Calibration Services

Group 6 : Optical Frequency Standards and Applications

- Optical Ion and Neutral Atom Clocks
- Optical Frequency Combs and Frequency Measurements
- Ultrastable Laser Sources and Optical Frequency References
- Ultrastable Frequency Transfer between Optical, Microwave, Terahertz and XUV domains
- Fundamental Physics tests with Clocks, and Other Applications