



The Swiss Institute of Navigation **ION-CH**, in collaboration with IEEE AES and the **Time and Frequency Laboratory** of the University of Neuchâtel and **CSEM**, is pleased to announce the following seminar:

Precision Timing in Navigation

Date: September 8, 2020

Place : Université de Neuchâtel - Faculté des sciences – Petit auditoire (GPA)
Avenue de Bellevaux 51, 2000 Neuchâtel ([Google Map](#))

ION-CH is organising a new series of networking seminars dedicated to Position, Navigation & Timing (PNT). The goals of these seminars are to :

- maximise networking opportunities throughout the PNT community,
- raise awareness of local activities,
- facilitate collaboration and fruitful exchange between academia and industry partners.

Neuchâtel has a long and illustrious role in the history of timekeeping and chronometry and represents the ideal venue for this inaugural edition of a series of seminars dedicated to the PNT community.



Neuchâtel Observatory / Hirsch Pavilion



Program

*Speakers can present in either French, German or English with slides in English.
All presentations are 10 minutes each.*

Chair: **Heinz Wipf**, AES-10, IEEE

14:30 Arrival

15:00 Welcome – **Dr. Urs Wild**, President ION-CH

Professor Gaetano Mileti, LTF / Université de Neuchâtel
Vapour cell atomic clocks and the measurement of time

Dr. Jacques Haesler, Senior Project Manager, Project Office, CSEM
macQsimal - Developing quantum sensors

Dr. Cyril Botteron, GNSS Products Line Manager, Syderal
Provision of High Precision PNT Services for the Space and the Earth Users

Dr. Pascal Rochat, SpectraTime / Orolia Switzerland
Spectratime GNSS clocks technologies

Dr. Patrick Berthoud, Senior Manager R&D, Chief Scientist Time & Frequency, Oscilloquartz SA
Primary ground reference clocks and applications

Pierre-René Beljean, Association EspaceTemps

Discussion & Q/A

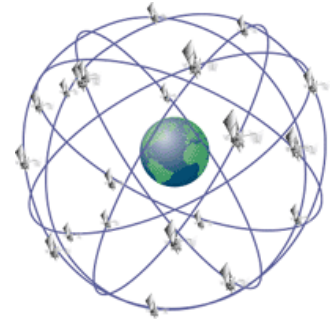
16:30 LTF / CSEM laboratory visits *

17:30 Visit of [Pavillon Hirsch](#) + Apéritif / Networking *

19:30 End

* *The CSEM laboratories and Hirsch Pavilion are located 5 minutes on foot from the Seminar location.*

⚠ COVID-19 info: *Masks are required for all laboratory visits. Hand disinfectant will be available. Other physical distancing regulations may be also implemented. For COVID-19 traceability requirements, registration is required (see below).*



Registration & Fee

To register for the seminar, please send an email to: info@ion-ch.ch **Deadline:** September 3, 2020

Private Event – open only to ION-CH, IEEE AESS and organizing members – free of charge.

To become an ION-CH member, please see: www.ion-ch.ch/wp/membership/

Contact: Edward Byrne
FSRM
byrne@fsrm.ch