

# 2018 International Frequency Control Symposium

Squaw Creek Resort, Lake Tahoe, California, USA

May 21–24, 2018



## Call for Papers

Abstract Submission Deadline: Jan. 12, 2018



Authors are invited to submit abstracts of recent and original work of interest to the frequency control communities in the following topics:

More information and abstract submission at:

<http://www.ifcs2018.org>

### General Chair:

Aaron Partridge (SiTime)  
ap@sitime.com

### Technical Program Chair:

Dana Weinstein (Purdue University)  
danaw@purdue.edu

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Debra Coler (OEwaves)  
debra.coler@oewaves.com

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gregory.weaver@jhauapl.edu

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john.kitching@nist.gov

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rcandler@ee.ucla.edu

### Newsletter Director:

Sheng-Shian Li (NTHU)  
ssli@mx.nthu.edu.tw

### Awards:

Send award nominations to  
James Camparo  
james.c.camparo@aero.org

### Exhibits Chair:

Craig Nelson (NIST)  
craig.nelson@nist.gov

### Group 1: Materials, Resonators & Resonator Circuits

- Fundamental properties of materials
- Micro and meso-scale fabrication technology for resonators and filters
- Theory, design and performance of resonators and filters, including BAW, FBAR, MEMS, NEMS, SAW, 2D materials, and novel devices
- Reconfigurable frequency control circuits, e.g. arrays, channelizers
- Opto-mechanical resonators

### Group 2: Oscillators, Synthesizers, Noise, & Circuit Techniques

- Oscillators, BAW, SAW, MEMS, microwave & optical
- Integrated oscillators
- Synthesizers, optical to microwave and RF conversion with combs
- Noise, aging and measurements
- Analog and digital electronics and signal processing

### Group 3: Microwave Frequency Standards & Applications

- Microwave atomic frequency standards
- Atomic clocks for space applications
- Vapor-cell atomic clocks and cell-based sensors and instruments
- Atomic interferometers
- Fundamental physics tests with clocks and other applications

### Group 4: Sensors & Transducers

- Resonant chemical sensors
- Resonant physical sensors
- Vibratory gyroscopes and magnetometers
- BAW, SAW, FBAR and MEMS sensors
- Transducers
- Sensor instrumentation

### Group 5: Timekeeping, Time & Frequency Transfer, GNSS Applications

- TAI & time scales and associated algorithms
- GNSS and related timing applications
- Telecommunications network synchronization
- Time and frequency transfer
- Frequency and time distribution
- Frequency and time calibration services

### Group 6: Optical Frequency Standards & Applications

- Optical ion and neutral atom clocks
- Optical frequency combs and frequency measurements
- Ultra-stable laser sources and optical frequency references
- Ultra-stable frequency transfer between optical, microwave, THz and XUV domains
- Fundamental physics tests with accurate optical spectroscopy, other applications

