



2007 IEEE IFCS Awards

Prizes to be presented at the EFTF IEEE-FCS'07 Award Ceremony on May 29 (18:30-19:30) in Room 1.

Cady Award:

The W. G. Cady Award is to recognize outstanding contributions related to the fields of piezoelectric or other classical frequency control, selection and measurement; and resonant sensor devices.

2007 Winner: Jacques Detaint - IMPMC, France

«For important contributions to the development and modelling of bulk-wave piezoelectric devices using quartz and new materials, and for determining the interactions between vibration mode shapes and defects.»

Rabi Award:

The Rabi Award is to recognize outstanding contributions related to the fields of atomic and molecular frequency standards, and time transfer and dissemination.

2007 Winner: Leo Hollberg - NIST, USA and Patrick Gill - NPL, United Kingdom

Leo Hollberg

«For seminal contributions to optical frequency metrology with the development of ultra stable optical frequency standards and related femtosecond clockwork.»

Patrick Gill

«For profound and continuing contributions to Time and Frequency metrology and the outstanding realization of single ion optical frequency standards.»

Sawyer Award:

The C. B. Sawyer Memorial Award is to recognize outstanding contributions in the development, production or characterization of piezoelectric materials of interest to the Symposium Technical Program Committee, or to recognize entrepreneurship or leadership within profit or non-profit organizations in the frequency control community (including all parts of the community).

2007 Winner: Errol EerNisse - Quartzdyne, USA

«For the founding and technical management of companies resulting in the commercialization of sensors based on his invention of the double-ended quartz tuning-fork, and high-stability resonators and sensors based on his understanding of stress effects in quartz.»

Award Nominations

Nominations are sought for the 2008 awards. Information is available at the IEEE Booth and is also available on the IEEE Frequency Control Symposium website at:
<http://www.ieee-uffc.org/fcs>

2007 EFTF Awards

The Time & Frequency Award of the Société Française des Microtechniques et de Chronométrie
Dr. Fritz Riehle of the PTB, Braunschweig

The Young Scientist Award, in 2007 offered by the FSRM (Swiss Foundation for Research in Microtechnology)

Dr. Scott A. Diddams, NIST, Boulder

Dr. Ronald Holzwarth, Max-Planck Institute for Quantum Optics, Garching

Dr. Svenja Knappe, NIST, Boulder

Special Lifetime Achievement EFTF Executive Committee Award

Prof. Sigfrido Leschiutta

«...for his immense contributions to the field of time and frequency.»

Student Paper Competition Finalists

[See page 21 of this guide for a complete list]



ENC-GNSS '07 Student Paper Competition Winners

Prizes to be presented at the ENC-GNSS 07 Closing Session on May 31 in Room 2.

Real-Time Small Movement Detection with a Single GPS Carrier Phase Receiver, Sébastien Guillaume, Geodesy and Geodynamics Laboratory, ETHZ

Presentation Session: B1

Narrowband Interference Suppression Performance of Multi-Correlation Differential Detection, Surendran K. Shanmugam, PLAN Group Schulich School of Engineering, University of Calgary

Presentation Session: B5

A Preventative Approach to Mitigating CW Interference in GPS Receivers, Asghar Tabatabaei Balaei, Cooperative Research Centre for Spatial Information System (CRC-SI) And the School of Surveying and Spatial Information Systems at The University of New South Wales, Australia; Beatrice Motella, Electronics Department at the Politecnico di Torino, Italy

Presentation Session: B5



EFTF-IFCS Student Competition Finalists (Denotes Winner)

Group 1

A Micromechanical Parallel-Class Disk-Array Filter (Paper ID: 7153)

Sheng-Shian Li, University of Michigan

Si-SiO₂ Composite MEMS Resonators in CMOS Compatible Wafer-Scale Thin-Film Encapsulation (Paper ID: 7173)

Bongsang Kim, Stanford University

High Overtone Bulk Acoustic Resonators Based on Thinned Single-Crystal Piezoelectric Layers (Paper ID: 7288)

Dorian Gachon, CNRS/FEMTO-ST

Narrow Bandwidth Single-Resonator MEMS Tuning Fork Filter (Paper ID: 7359)

Jize Yan, University of Cambridge

Group 2

Noise Measurements of 10 MHz LGT Crystal Oscillators (Paper ID: 7163)

Joel Imbaud, FEMTO-ST Institute

Optical Frequency Self Stabilization in a Coupled Optoelectronic Oscillator (Paper ID: 7198)

Franklyn Quinlan, University of Central Florida

Noise Properties of Microwave Amplifiers in Single and Dual Frequency Regimes of Excitation (Paper ID: 7205)

Michael Miao, University of Western Australia

Further Examination of the Injection-Locked Dual Optoelectronic Oscillator (Paper ID: 7395)

Kai Hudek, University of Colorado

Group 3 and 6

Nonlinear Pressure Shifts of Cs-133 Hyperfine Frequencies (Paper ID: 7197)

Fei Gong, Princeton University

Generation of Coherent Population Trapping Resonances with Nearly 100 % Transmission Contrast (Paper ID: 7284)

Vishal Shah, NIST

First Operation of a Double Cesium and Rubidium Fountain (Paper ID: 7368)

Frédéric Chapelet, LNE-SYRTE

A Compact Cold Atom Clock with a Frequency Stability Better Than 8.10⁻¹³ at 1sec (Paper ID: 7400)

Francois-Xavier Esnault, LNE-SYRTE

Towards an Optical Lattice Clock Based on Neutral Mercury (Paper ID: 7366)

Michaël Psetersen, LNE-SYRTE

Group 4

A-Plane Gan Shear Wave Thin Film Resonator (Paper ID: 7180)

Marc Loschonsky, IMTEK-EMP

Bioanalytical Applications of a Non Contact Acoustic Sensor (Paper ID: 7190)

Bernardita Araya-Kleinstaubler, University of Cambridge

Mass Sensitivity of Thin Film Resonator Devices (Paper ID: 7244)

Gunilla Wingqvist, Uppsala University

Cryogenic Liquid Level Sensing Using SAW Devices (Paper ID: 7354)

Brian Fisher, University of Central Florida

Group 5

A Novel Method with Ps Accuracy for Time Interval Measurement (Paper ID: 7237)

Xiangwei Zhu, National University of Defence Technology, China

The T2L2 Metrological Test Bed (Paper ID: 7209)

Patrick Vrancken, Observatoire de la Côte d'Azur

Time Transfer Using an Asynchronous Computer Network: an Analysis of Error Sources (Paper ID: 7170)

Sven-Christian Ebenhag, SP Technical Institute of Sweden

A Time-to-Digital Converter Based on Time-Space Relationship (Paper ID: 7085)

Lin Li, Xidian University, China

ENC-GNSS 07 Best Poster Award

Götz Kappen, Chair of Electrical Engineering and Computer Systems, RWTH Aachen University, Germany

Paper Title: Comparison of ASIP and Standard Microprocessor based Navigation Processors

Götz Kappen, Lothar Kurz, Tobias G. Noll; Aachen University

ENC-GNSS 07 Best Presentation Award

Valérie Renaudin, EPFL, Switzerland

Paper Title: Inertial and RFID Sensors for Indoor Navigation in Case of Emergency Intervention

Valérie Renaudin, Okan Yalak, Phillip Tomé and Bertrand Merminod; EPFL