IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society

IEEE

Dedication Ceremony of IEEE Milestone

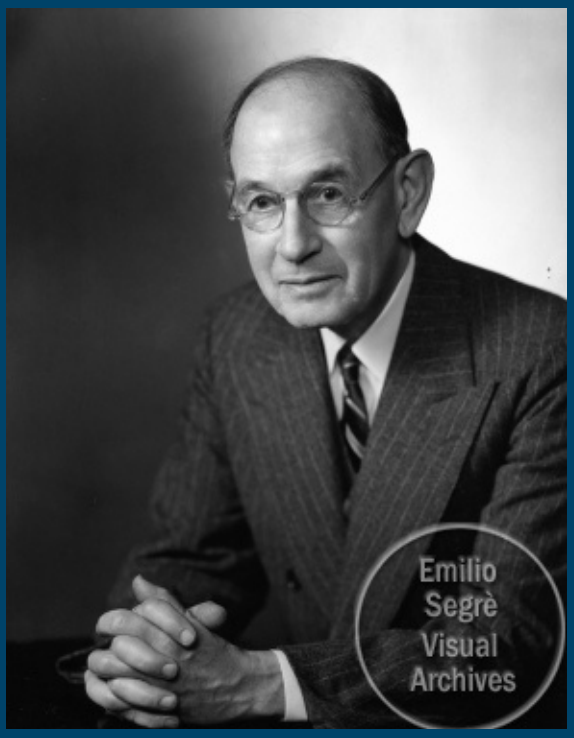
PIEZOELECTRIC QUARTZ RESONATOR, 1921-1923

5 NOVEMBER 2020 | 11 AM TO 1 PM ET

IEEE Milestone

IN REMEMBRANCE OF THE ACCOMPLISHMENTS OF

WALTER GUYTON CADY



IEEE MILESTONE

PIEZOELECTRIC QUARTZ OSCILLATOR, 1921-1923

In 1921, research at Wesleyan led to development of the first circuit to control frequencies based on a quartz crystal resonator. This technique was later applied in standards of frequency as a filter and for coupling between circuits. Piezoelectric quartz oscillators advanced ultrasonics, sonar, radar, and myriads of other electronic applications. They appeared in everyday life through their use in quartz wristwatches.

NOVEMBER 2020

IEEE

Program

5 NOVEMBER 2020

A CONVERSATION WITH WALTER GUYTON CADY
Sidney Lang, UFFC Society Historian

IEEE: CELEBRATING OUR HISTORICAL LEGACY
Susan K. (Kathy) Land, IEEE President-Elect 2020

UFFC: BUILDING FROM THE PAST TO THE FUTURE
Paul Reynolds, UFFC Society President 2020-21

IEEE MILESTONES: CELEBRATING THE POWER OF THE HUMAN INTELLECT
Robert Colburn, Research Coordinator, IEEE History Committee

WALTER G. CADY'S GROUNDBREAKING WORK ON PIEZOELECTRICITY
Janice Naegele, Dean of Natural Science and Mathematics and Alan Dachs Professor of Science, Wesleyan University

PRESENTATION OF IEEE MILESTONE PLAQUE
Vacek Miglus and Greg Voth, Department of Physics, Wesleyan University

RESONANCE AND RENAISSANCE: THE WORK OF WALTER CADY AND PHYSICS AT WESLEYAN,1900~1940S
C. Stewart Gillmor, Professor Emeritus of History and Science, Wesleyan University

ADVANCES IN DEVELOPMENT AND APPLICATIONS OF PIEZOELECTRIC MATERIALS
Ahmad Safari, Distinguished Professor, Department of Materials Science and Engineering, Rutgers University

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