

Subject: February VOSA Mtg is Wednesday 2/12
From: <john@latigooptics.com>
Date: 1/24/20, 12:20 PM
To: <sales@opsysgrp.com>

Meeting on WEDNESDAY

Please register with john@latigooptics.com

(for food estimate – last minute walk-ins are completely welcome)

Those who have registered are listed at the bottom.

Ventura OSA (CVOSA) Announcement for **WEDNESDAY February 12th, 2020** ([Please RSVP](#))



Ventura OSA

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 John McDonald

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 Fred Houston

Historical Examples of Politics, Morality, Innovation and Fraud in Physical Science and Technology

Caltech History of Science Professor **Jed Buchwald**



Heinrich-Hertz

(<https://www.famousscientists.org/heinrich-hertz/>)

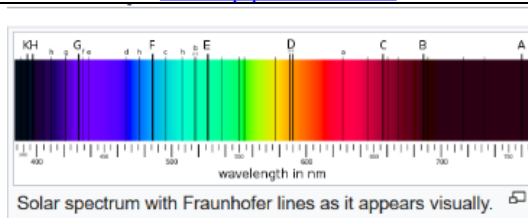


Marconi Wireless Stock Certificate <https://commons.wikimedia.org/w/index.php?curid=66500481>



Zollner Illusion

By Fibonacci - Own work, CC BY-SA 3.0,
<https://commons.wikimedia.org/w/index.php?curid=1788576>



Solar spectrum with Fraunhofer lines as it appears visually.

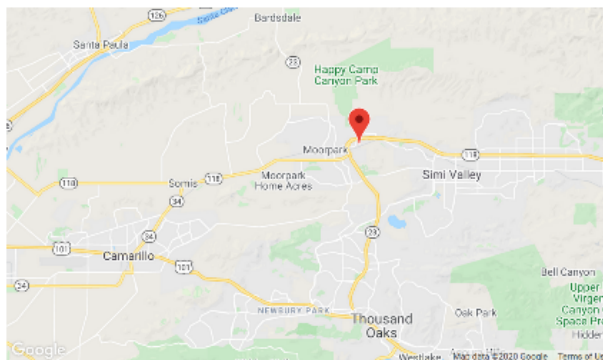
https://en.wikipedia.org/wiki/Fraunhofer_lines

Abstract

The pressures of politics, the desire to be first in innovation, moral convictions, and the potential dangers of unwitting error are all factors that have long been at work in the history of science and technology. Historians think and argue best through stories, so I've chosen several tales to tell each of which exemplifies one or more of these aspects, though some reach back nearly 200 years. The first is the most recent and concerns the depletion of the ozone layer; the second involves the discovery of electric waves by Heinrich Hertz in 1888; the third concerns the controlled production of electromagnetic radiation by Marconi and Fleming in the early 1900s; the fourth portrays the circumstances surrounding Fraunhofer's discovery and use of the spectral lines in the 1810s; our final case involves a bitter controversy between the physicist Hermann von Helmholtz and the astronomer Friedrich Zöllner in the 1890s.

This meeting is generously hosted by Laritech, Inc.

[Laritech, Inc.](#)
 5898 Condor Drive
 Moorpark, CA 93021
 [1] 805.529.5000



GPS 34.289077, -118.855115

6:00p Mixing and Stand Up Dinner

7:00p Speaker

\$25 donation on site (it is a donation for food, insurance and venue. If you need a no-food, student, pre-school, old age or other discount please give yourself one).

Caltech Professor Jed Buchwald

Jed Z. Buchwald is Doris and Henry Dreyfuss Professor of History at [Caltech](#). He was previously director of the [Dibner Institute for the History of Science and Technology](#) at [MIT](#). He won a MacArthur Fellowship in 1995.

Jed has his own [Amazon Author's Page](#) and his own [Wikipedia Page](#).

This bio is from his Wikipedia page.

Buchwald's publications include several full books and edited history-of-science essay collections:

- 1985 – *From Maxwell to Microphysics: Aspects of Electromagnetic Theory in the Last Quarter of the Nineteenth Century*
- 1989 – *The Rise of the Wave Theory of Light: Optical Theory and Experiment in the Early Nineteenth Century*
- 1993 – *Einstein Papers Project* Vol. 3 (one of nine contributing editors)
- 1994 – *The Creation of Scientific Effects: Heinrich Hertz and electric waves*
- 1995 – *Scientific Practice: Theories and Stories of Doing Physics* (editor)
- 1996 – *Scientific Credibility and Technical Standards in 19th and Early 20th Century Germany and Britain* (editor)
- 2000 – *Isaac Newton's Natural Philosophy* (editor, with I. Bernard Cohen)
- 2001 – *Histories of the Electron: The Birth of Microphysics* (editor, with Andrew Warwick)
- 2005 – *Wrong for the Right Reasons* (editor, with Allan Franklin)
- 2010 – *The Zodiac of Paris: How an Improbable Controversy Over an Ancient Egyptian Artifact Provoked a Modern Debate Over Religion and Science* (with Diane Greco Josefowicz)
- 2012 – *Newton and the Origin of Civilization* (with Mordechai Feingold)

Buchwald is also the general editor of the book series "Dibner Institute Studies in the History of Science and Technology" and of the book series "Archimedes: New Studies in the History and Philosophy of Science and Technology," as well as managing editor of the book series "Sources and Studies in the History of Mathematics and the Physical Sciences." Buchwald, together with [Jeremy Gray](#), serves as editor-in-chief of the Springer journal [Archive for History of Exact Sciences](#).

Jed's wife Diana Kormos Buchwald is the director of the [Einstein Papers Project](#) at Caltech.

Education

Buchwald graduated from [Harvard University](#) with a Ph.D. in 1974. His dissertation was entitled: "Matter, the Medium, and the Electrical Current: A History of Electricity and Magnetism from 1842 to 1895"



From John McDonald

Jed teaches Tuesday and Thursday so I moved this meeting to Wednesday. This meeting should have appeal to a broader audience, spouses, precocious teens and next door neighbors. Bring 'em!

Coming Up:

VOSA 2nd Tuesdays 2020

- March 10 Jim Solliday, Dinosaurs under the microscope
- April 14 [Aaswath Raman, UCLA](#), radiative cooling (Skycool Technology),
- May 12 Josh Mutus, update on Google Quantum Supremacy

- June 9 Sadiqa Stelzner, Opthamologist Topic TBD
- July 14
- August 11
- September 8

If you want to be added or removed to/from our mail list please notify us at john@latigooptics.com

For our meeting (Ventura OSA) please register to john@latigooptics.com

RSVPs

1. John McDonald
2. Cricket Blake
- 3.