



ACS Local Section  
Portland

AMERICAN CHEMICAL SOCIETY

# Portland Section Meeting Notice

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March 2020

## 2020 March 13 Meeting Notice

### Recognizing Thomas G. Dunne Emeritus Professor of Chemistry, Reed College

Date: Friday 13 March 2020

#### Schedule:

5:30 - 6:30: Plenary talk in the Vollum Lecture Hall  
Dan Stack, Reed '82, Associate Professor of Chemistry,  
Stanford University

Plenary Talk Title: *Imidazole Ligation Fundamentals:  
Biological Relevance of Cu(III)?* (Abstract next page)

6:30 - 7:15: Reception with no-host beer & wine & appetizers,  
Vollum Lounge (including slideshow)

7:30 - 8:30: Buffet dinner, Gray Campus Center rooms B-D

8:15 - 8:45: after-dinner talks; greetings to Tom via video

#### Reed College

3203 SE Woodstock Blvd, Portland, OR 97202

[map](#) (use East Parking Lot; Vollum is number 39 on map)

[Dinner Reservations—Dinners are \\$20 for early reservation](#)

Dinner reservations FIRM deadline **9 AM Friday March 6**

**Please Note: Reed College catering requires reservations one week in advance.**  
Prices increase to \$25 after the deadline! (including at the door)

## Abstract

**Imidazole Ligation Fundamentals: Biological Relevance of Cu(III)?** William Keown [a], Tao Large [a], Linus Chiang [a], C. Erik Wasinger [b], T. Daniel P. Stack [a]<sup>1</sup>.

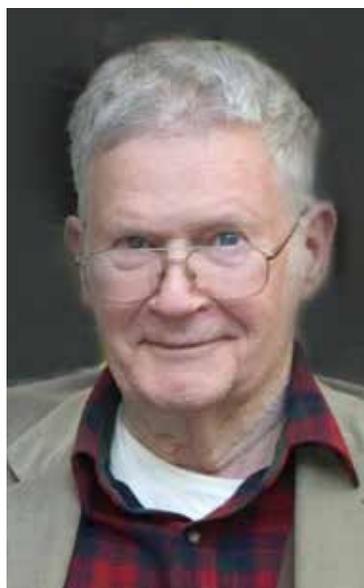
Multinuclear cuprous centers in enzymes that activate dioxygen are ligated predominantly by imidazoles from histidine residues. Understanding the nature of intermediate species involved informs on the design of new copper oxidation catalysts that can use dioxygen. Synthetic cuprous imidazole complexes react with dioxygen to form most known biological intermediates and also ones that contain Cu(III). However, no copper enzyme is known to stabilize a copper site in the Cu(III) oxidation state to date. The role of imidazole in stabilizing Cu(III) species will be the focus of the presentation.

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<sup>1</sup>[a] Stanford University, Department of Chemistry;

[b] California State University at Chico, Department of Chemistry and Biochemistry

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### Bio: Tom Dunne

Tom was born in Los Angeles, Calif. in Oct. 1930. He grew up in the small chemical company town of Westend, California on Searles Lake in the Mojave Desert (many older high school chemistry texts had a section on Searles Lake as a source of many inorganic chemicals including borax, potash, soda ash, sodium sulfate and alkali metals lithium and cesium.)

Tom went to school in the larger nearby town of Trona and graduated in 1948 from Trona High School. He then went off with three of his high school classmates to UCLA where he received a B.S. in Chemistry in 1952. He attended graduate school at

the Univ. of Washington and received his Ph.D. in 1957. He then took a position in the Central Research labs of IBM in Poughkeepsie, NY. After a few years there he opted to seek an academic position, so took a PostDoc with Professor F.A. Cotton at MIT. He joined the chemistry faculty at Reed College in Portland in 1963 where he taught a variety of courses, advised many thesis research students, and chaired the Department of Chemistry for several years. He formally retired from Reed in 1995, but continued to teach and advise there for several years following his retirement. He was active in the Reed Emeritus Book Club and also was active in the City Club of Portland. His passtime was reading and he would read periodicals (Science, C&EN, The New Yorker and others) cover to cover every week, as well as reading or re-reading many classics from the Library.

Tom is a 64-year member of the American Chemical Society, Portland Section. He was an active member of NOR Board, the ACS Northwest Regional Board of Directors and as Board Members Glenn and Jane Crosby said “Tom’s manifold contributions to ACS and the Region often are invisible. He doggedly keeps looking for funding, and often his successes go unheralded. Moreover, he is the guy who incessantly prods the Region’s officers until the NOR Board does what it should do to operate in a business-like manner. Only a few ACS members in the Northwest have left tracks as wide and deep and for as many years on the ACS Northwest Region Board.”

Tom applied his fund-raising skills especially to the Section’s scholarship program, which has awarded over 130 scholarships since 1968 to outstanding chemistry majors for an aggregate value of over \$300,000.

Tom received the E. Ann Nalley Northwest Region Award for Volunteerism in 2011.

—Patrick Dunne and Martha Dibblee

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## Portland Section YouTube Channel Established

The Portland Section will be livestreaming and recording many of its future events. Our first event taped was the December 5 lecture by Professor Robert Strongin of Portland State University on “The Chemistry of Vaping.” It and all future streamed events can be found at the Portland Section’s new [YouTube channel](http://bit.ly/acsportlandyoutube) at this link: <http://bit.ly/acsportlandyoutube>

Please subscribe to our channel. Interested in hosting a watch party? Please contact Jim Tung ([jimtung@gmail.com](mailto:jimtung@gmail.com)). The Portland Section has funding to support gatherings of Portland chemists to remotely watch our events. This live broadcast supported by the ACS Local Section Members Engaging Through Technology (METT) Grant.