

CHICAGO SECTION AMERICAN CHEMICAL SOCIETY

MONTHLY PROGRAM MEETING, JOINT WITH NORTHWESTERN UNIVERSITY

BASOLO MEDAL LECTURE & RECEPTION

NORTHWESTERN UNIVERSITY
FRIDAY, OCTOBER 26, 2018

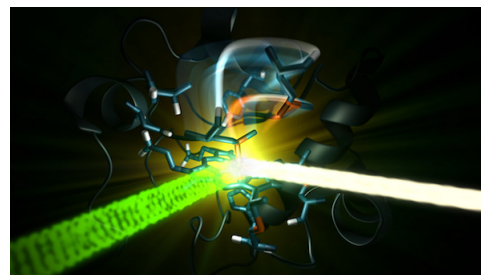
Prof. Edward I. Solomon

**Monroe E. Spaght Professor Of Chemistry,
Stanford University**



“Activating Metal Sites For Biological Electron Transfer”

Metal sites in biology often exhibit unique spectroscopic features that reflect novel geometric and electronic structures imposed by the protein that are key to reactivity. The Blue copper active site involved in long range, rapid biological electron transfer is a classic example. This talk presents an overview of both traditional and synchrotron based spectroscopic methods and their coupling to electronic structure calculations to understand the unique features of the Blue copper active site and their contributions to function. The relation of this active site to other biological electron transfer sites is further developed. In particular ultrafast XFEL spectroscopy is used to evaluate the met-S-Fe bond in cyt c, and its control by the protein (called the “entatic state”) in determining function (electron transfer vs. apoptosis).



PROGRAM - **TWO LOCATIONS**

- 4:15 - 5:45 Registration at *Technological Institute*
- 4:30 - 4:45 Refreshments before lecture
- 4:45 - 5:45 Introduction and Lecture in Room LR3, *Technological Institute*
- **5:30 - 6:00 Move to Hilton Orrington, 1710 Orrington Ave, Evanston, IL**
- 6:00 - 7:00 Reception at the *Hilton Orrington Heritage Ballroom*
- 7:00 - 8:00 Dinner & General ACS Meeting at the *Hilton Orrington*
- 8:00 Presentation of Medal

REGISTRATION & INFO: <http://chicagoacs.org/meetinginfo.php?id=134>

RECEPTION & DINNER at Hilton Orrington; \$35 ACS and AIChE members, \$37 non-members;

Register for dinner by noon Monday, Sept. 17;

4:45 PM LECTURE IS FREE. Please register by noon Thursday, 21st June.

QUESTIONS OR NON-WEB RESERVATIONS? Please contact the Section Office: 847-391-9091, chicagoacs@ameritech.net