CHEMISTRY SEMINAR SERIES
SPRING 2016

TIME: 12:30-2:00 PM **PLACE: SCIENCE HALL WEST 301**

WHEN: THURSDAY, MARCH. 31TH, 2016

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Schedule for Thursday March. 31TH, 2016

Going green with molecular "wiring"

Redox enzymes can be used in biosensors for clinical lab, for environmental monitoring, in the food industry, in defense application, and many others. Their shortcomings are limited stability and the need for mediators when they are used in enzyme electrodes. The former has been addressed by immobilization, labor-intensive and requiring typically hazardous chemicals, while the latter involves mostly toxic electroactive species. "Wiring" of redox enzymes was proposed as an alternative to immobilization of enzymes and mediation. It still involves heavy metals. The present talk will be about enhancing redox enzymes using environmentally- and enzyme-friendly methods at the molecular level.