

STEINER LECTURE
=====**JOHN TOSCANO**

JOHNS HOPKINS UNIVERSITY

WEDNESDAY**11/7/07****4:45 P.M.****SCIENCE CENTER A255****“Design and Study of New Nitroxyl
(HNO) Precursors and Their Potential in
the Treatment of Heart Failure”**

The biochemistry of the nitroxyl system (NO⁻/HNO), the one-electron reduced congener of nitric oxide (NO), has recently received significant attention, especially as a potential alternative to current treatments of cardiac failure. Compared with NO, however, much less is known about the fundamental solution chemistry of this deceptively complicated system. Relatively few precursors to HNO exist and its direct observation has been limited mainly to gas phase and matrix studies. This presentation will focus on the development of new HNO precursors, the reactivity of acyl nitroso species (transient electrophiles that react with nucleophiles to yield HNO), and the reactivity of HNO with proteins involved in cardiac signaling pathways.

THERE WILL BE A RECEPTION FOR THE SPEAKER AT 4:30 P.M.
WEDNESDAY IN LOVE LOUNGE, REFRESHMENTS WILL BE PROVIDED

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