“oxo wall” separates Fe-Ru-Os and Co-Rh-Ir in the periodic table. I will review this early work, then discuss the roles metal-oxos play in two of the most important chemical reactions on planet Earth, hydrocarbon oxygenation catalyzed by cytochrome P450, and solar-driven water oxidation catalyzed by photosystem-II.

4:45 PM Unlocking the Potential of Spherical Nucleic Acids

Professor Chad A. Mirkin
in Biology and Medicine
NICHOLS MEDALIST

A fundamental tenet of nanotechnology is that bulk materials, when miniaturized, exhibit new and interesting chemical and physical properties. These properties often positively impact the development of new technologies, especially in the areas of biology and medicine where frontier advances require rapid changes in how living systems are probed and regulated. Spherical nucleic acids (SNAs), nanostructures typically made by chemically templating short strands of DNA or RNA on the surface of a particle, display extraordinary architecture-dependent properties. Unlike conventional nucleic acids, SNAs can rapidly enter cells without the need for transfection agents, and they can be utilized as novel intracellular probes and efficacious agents for regulating gene expression and immune system response. Consequently, SNAs constitute an entire new class of therapeutics that are being utilized to attack diseases and disorders, including autoimmune diseases and many forms of cancer, at their genetic roots.

5:45 PM Social Hour

6:45 PM William H. Nichols Medal Award Dinner

Professor Harry B. Gray will introduce Professor Mirkin, Nichols Medalist


Tickets may be reserved using the following form, or preferably through the New York Section website that accepts credit cards or Paypal. http://www.NewYorkACS.org.

***********      RESERVATION FORM      ***********

2017 WILLIAM H. NICHOLS DISTINGUISHED SYMPOSIUM & MEDAL AWARD BANQUET in honor of Professor Chad A. Mirkin

Return to: ACS, New York Section, c/o Dr. Neil D. Jespersen, Department of Chemistry, St. John’s University, 8000 Utopia Parkway, Queens, NY 11439 (516) 883-7510

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_____ places for the symposium & banquet at $125/person ACS member

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Indicate numbers in your group who choose:

Chicken ________ Name: ____________________________

Prime Rib ________ Address: ____________________________

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