

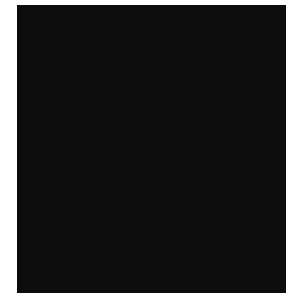
DIDIER ASTRUC

Didier Astruc's group in Bordeaux is working on the interplay between metal dendrimers and transition-metal nanoparticles. The starting point is hard-core transition-metal inorganic and organometallic

chemistry, electron-transfer processes and molecular electronics. Applications of this basic research range, in his group, from molecular nanobatteries and catalysis inside nanoreactors in water to the use of functional gold nanoparticles for biological anion sensing and vectorization of anti-cancer drugs.

Didier Astruc was born in Versailles and studied in Rennes, Brittany, where he passed his Ph. D. under the guidance of René Dabard before a post-doc at MIT with Dick Schrock (2005 Nobel Laureate). He has been a Professor of Chemistry at the University Bordeaux 1 since 1984, except for a sabbatical year in U.C. Berkeley with K. Peter C. Vollhardt (1990-1) where he wrote his first book "*Electron Transfer and Kinetic Processes in Transition Metal Chemistry*", prefaced by 1983 Nobel Laureate Henry Taube (VCH, New York, 1995). In 2000, he published a textbook in French "*Chimie Organométallique*" (EDP Sciences, Les Ulis; Spanish version: Reverte, 2003) that was completed to "*Organometallic Chemistry and Catalysis*" (Springer, Berlin, 2007). He is the author or co-author of 350 research papers and has given 340 research lectures. He has co-edited a volume of "*Handbook of Electron Transfer*" with V. Balzani and P. Mattay, and has edited three books including "*Modern Arene Chemistry*" (Wiley-VCH, 2004) and "*Nanoparticles and Catalysis*" (Wiley-VCH, 2007) and several special journals.

- 1993 H. Schmidbauer, Munich
- 1994 A. J. Bard, U. Texas, Austin
- 1996 R. Huisgen, Munich
- 1998 J. M. J. Fréchet, Berkeley
- 1999 R. W. Field, M.I.T.
- 2000 I. Dance, New South Wales
- 2001 K. C. Nicolaou, San Diego
- 2002 R. R. Birge, Connecticut/Syracuse
- 2003 D. Fenske, Karlsruhe
- 2004 A. Padwa, Emory
- 2005 N. Dovichi, Washington State
- 2006 K. N. Raymond, Berkeley
- 2007 K. Tamao, RIKEN and Kyoto University
- 2008 P. Corkum, NRC, Ottawa

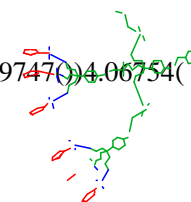


the UNIVERSITY of WESTERN ONTARIO

The 3M University Lecturer
in Chemistry
2009

DIDIER ASTRUC

Université Bordeaux 1
Bordeaux, France



p.cddeeff

Prof Astruc will present three lectures

Monday April 6 11

12 p

Conron H

University College Room 11

REFRESHMENTS WILL BE SERVED

FOLLOW THE LECTURE IN ROOM 11

Lecture 1

**From Organometallic Chemistry to
Metalloids Applications to Sensing
and Molecular Electronics**

Organo-iron activation of small arene molecules
provides a rare, but very simple and powerful