



Recent Developments on Polyazaacene Radicals

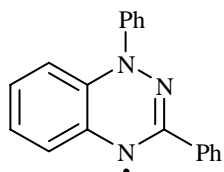
Speaker: **Dr. Panayiotis A. Koutentis**

Associate Professor, University of Cyprus, Department of Chemistry

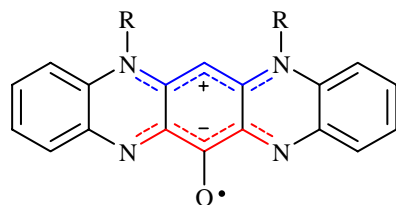
Date: 18 March, 2011 **Time:** 12:30-13:30 **Place:** Kyrenia room, Andreas Themistocleous building

Presentation Abstract

The search for neutral organic radicals continues and much has been described in the recent literature, however, the usefulness of such systems is often hampered by undesirable reactivity that can lead to oxidation, dimerisation or disproportionation. Several nitrogen rich acene radicals have been shown to be relatively stable and our studies on the Blatter radical **1** have led to the design and synthesis of “super-stable” analogues. Furthermore, an attempt to design and synthesise potential high spin diradicals based on a modification of the Blatter radical afforded an unusual zwitterionic tetraazapentacene radical **2**.



1



2

Speaker

Professor Koutentis, received his BSc (Hons) First Class in Chemistry in 1992 and his PhD in Organic Chemistry from Imperial College of Science, Technology and Medicine, London, in 1997. Four areas of research interest are currently under investigation. 1) The synthesis and reactivity of novel and unusual S,N-heterocyclic compounds; 2) The design and synthesis of organic magnets based on radical and diradical polyazaheterocyclic systems; 3) The design and synthesis of novel conjugated and non conjugated polymers; 4) The design and synthesis of biologically active heteroarenes.

His employment history is as follows:

- 2009-present Associate Professor in Organic Chemistry. University of Cyprus, Nicosia.
- 2004-2009 Assistant Professor in Organic Chemistry. University of Cyprus, Nicosia.
- 1999-2004 Lecturer in Organic Chemistry. University of Cyprus, Nicosia.
- 1999 Haddon Research Group, University of Kentucky, Lexington: Postdoctoral Scholar. Preparation of stable phenalenyl neutral radicals. Advisor: Professor Robert C. Haddon.
- 1997-1998 Exotic Materials Institute, UCLA: Postdoctoral Fellow. Preparation of zwitterionic tetraazapentacenes. Advisor: Professor Fred Wudl.
- 1997 University of Bristol, United Kingdom: Research Assistant. Preparation of conformationally controlled polymers. Advisor: Professor Roger W. Alder.
- 1993-1997 Imperial College of Science, Technology and Medicine, London: Teaching Assistant.

Information

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