INVITED LECTURES (PLENARY, KEYNOTE AND SESSION LECTURES) AT INTERNATIONAL CONFERENCES OR SYMPOSIA


11. A.J.L. Pombeiro*, "Group VI and VII Transition Metal Complexes with Single, Double or Triple Metal-Carbon Bonds", IX Annual Meeting on Organometallic Chemistry, Spanish Royal Chemical Society (Organometallic Chemistry Division), Faculty of Chemistry, Oviedo, Spain, 1989 (Plenary lecture).


A.J.L. Pombeiro*, "Activation of Nitriles and Related Molecules by Transition-Metal Centres", Italian-Portuguese-Spanish Meeting in Inorganic Chemistry, Gandía, Spain, 1990, M3-4, p. 52 *(Invited lecture (micro-symposium)).

A.J.L. Pombeiro*, "Electrochemically Induced Interconversion of Unsaturated Carbon or Nitrogen Ligands and Redox Properties of Their Binding Metal Centres", J. Heyrovský Centennial Congress on Polarography, 41st Meeting of the Internat. Society of Electrochemistry, Prague, Czechoslovakia, 1990, Fr-MS15/1 *(Invited lecture (micro-symposium)).


46 A.J.L. Pombeiro*, “Metal-promoted C-H Bond Formation or Cleavage at Nitriles, Alkynes or Alkanes”, 7th FIGIPS Meeting in Inorganic Chemistry, Lisbon, Portugal, 2003, p. 84 (Invited lecture (minisymposium on “C-H and C-C Bond Formation”).


54 A.J.L. Pombeiro*, “Metal-Catalyzed Functionalization of Alkanes under Mild Conditions”, International Workshop on Coordination Chemistry, National Taiwan University of Science and Technology, Taipei, 2007.

55 A.J.L. Pombeiro*, “Current Research in Coordination Chemistry and Catalysis at the IST (Coordination Chemistry and Molecular Electrochemistry Group)”, International Workshop on Coordination Chemistry, National Taiwan University of Science and Technology, Taipei, 2007.


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A.J.L. Pombeiro*, “Functionalization of Alkanes under Mild Conditions”, 24th International Conference on Organometallic Chemistry (ICOMC), Taipei, Taiwan, 2010, Ref

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A.J.L. Pombeiro*, “Metal Catalyzed Selective Oxidation of Alkanes under Mild Conditions”, 3rd EuCheMS (European Association for Chemical and Molecular Sciences) Chemistry Congress, Nurnberg, Germany, 2010 (Metal Catalysis Symposium, Session lecture).

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A.J.L. Pombeiro*, “Complexes Bearing N-, N,O- or N,P- ligands in Multinuclear Assemblies and in Oxidation or C-C Coupling Catalyses”, 5th EuCheMS Conference on Nitrogen Ligands, Granada, Spain, September 2011 (Keynote lecture).


A.J.L. Pombeiro, “Metal-catalyzed, Metal-promoted and Metal-free functionalization of alkanes”, 4th EuCheMS (European Association for Chemical and Molecular Sciences) Chemistry Congress, Prague, August, 2012 (Keynote lecture).


A.J.L. Pombeiro, M. F. C. Guedes da Silva, “Redox Potential Parameterization in Half Sandwich Coordination Compounds”, 46th Heyrovský Discussion (Molecular electrochemistry in organometallic science), Heyrovský Institute of the Czech Republic, Castle Trest, Czech Republic, June, 2013 (presented by AJLP).


A.J.L. Pombeiro, “Metal-assisted and Metal-catalyzed Activation of Small Molecules”, XXIII National Meeting of the Portuguese Chemical Society, Aveiro, June 2013, FS1, p.25 (Plenary lecture, Ferreira da Silva Prize).


A.J.L. Pombeiro, M.F.C. Guedes da Silva, “Redox Potential as a Tool for the Characterization and Identification of Metal Complexes”, MicroEchem 3013 (New Processes and Materials Based on Electrochemical Concepts at the Microscopic Level,
Satellite Conference to the 64th Annual ISE Meeting, La Muralla, Amealco de Bonfil, Queretaro, Mexico, September, 2013 (keynote lecture, presented by AJLP).


96 A.J.L. Pombeiro, “Metal-catalyzed Oxidations of Alkanes under Mild Conditions”, Conference on Achievements and Problems in Modern Chemistry – Symposium of the International Laboratory of Organometallic Chemistry, Saint Petersburg State University, Russia, November 2014, p.185 (plenary lecture).


100 A.J.L. Pombeiro, “Playing with Electrons: the Magic of Molecular Electrochemistry”, XX Meeting of the Portuguese Electrochemical Society, Braga, October 2015 (Prize Award lecture).


104 A.J.L. Pombeiro, “Vanadium Complexes in Water, Alcohol and Alkane Oxidation Catalysis”, 10th International Vanadium Symposium, Taipei, Taiwan, November 6-9, 2016 (plenary lecture).
113 A.J.L. Pombeiro, “Alkanes as Potential Feedstocks in Metal catalysed Synthesis”, 5th International Scientific Conference “Advances in Synthesis and Complexing”, RUDN University, Moscow, Russia, 22-26 April, 2019 (keynote lecture) (to be presented).

**OTHER INVITED LECTURES AT SCIENTIFIC INSTITUTIONS**


"Chemistry and Electrochemistry of Isocyanide Complexes with Dinitrogen Binding Sites", University of Southhampton, U.K., 1982.


"Chemistry and Electrochemistry of Complexes with Small Unsaturated Ligands", Faculty of Engineering (Industrial Chemistry Institute, University of Padova) and Faculty of Mathematical, Physical and Natural Sciences (Institute of General and Inorganic Chemistry, University of Parma), Italy, 1989.

"Chemistry and Electrochemistry of Complexes with Nitrogenase Substrates", Faculty of Mathematical, Physical and Natural Sciences (Department of Chemical Sciences), University of Trieste, Italy, 1990.

"Activation of Small Unsaturated Molecules: Chemistry and Electrochemistry of Their Rhenium Complexes", Chemistry Department, Institute for Nuclear Sciences and Engineering (ICEN), National Laboratory for Engineering and Industrial Tecnology (LNETI), Sacavém, Portugal, 1993.

"Complexes with Multiple Metal-Carbon Bonds towards Organic Synthesis", meeting of the EC Network on "Multiple Metal-Carbon Bond Species in Selective Processes", University of Milan (Department of Organic and Industrial Chemistry), Italy, 1995.

"The State of Research in Portugal" or "Scientific Research in Portugal – Current Situation and Perspectives", Air Force High Studies Institute, Higher Course on Air War, Sintra, Portugal, 1995-2003 (annual up-dated lectures, 3 or 4h).

"Complexes with Multiple Metal-Carbon Bonds: Some New Results and Perspectives", meeting of the EC Network on "Multiple Metal-Carbon Bond Species in Selective Processes", University of Rennes, France, 1996.
"Molecular Electrochemistry of Complexes with Coordinated Small Molecules", meeting of the EC Network on "Selective Processes and Catalysis Involving Small Molecules", Institute for Biological and Chemical Tecnology (ITQB), Oeiras, Portugal, 1996.

"Developments in the Chemistry and Electrochemistry of Some Complexes with Multiple Metal-Carbon Bonds", meeting of the EC Network on "Multiple Metal-Carbon Bond Species In Selective Processes", University of Milan (Department of Organic andIndustrial Chemistry), Italy, 1997.

"Complexes with Multiple Metal-Carbon Bonds and Related Species (Latest Results)", meeting of the EC Network on "Multiple Metal-Carbon Bond Species in Selective Processes", University of Camerino, Italy, 1997.

“Coordination Chemistry in Biological and Industrial Catalysis”, Expoquímica 98 (Expochemistry 98), ISEL (Higher Institute of Engineering of Lisbon), Lisbon, 1998.

“Activation of Small Molecules with Biological, Environmental or Industrial Significance”, VII Conferences Series, New University of Lisbon, Monte da Caparica, 1999.


“Metal-Mediated Reactions of Alkanes and Other Small Molecules with Biological or Synthetic Significance”, Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan, 2001.

“Activation of Small Molecules towards Some Biomimetic and Synthetic Processes”, Department of Chemistry and Biochemistry, Graduate School of Engineering, The University of Tokyo, Japan, 2001.


“Alkanes and Nitriles in Metal-mediated Synthesis and Catalysis”, Faculty of Chemistry, University of Vienna, Austria, 2005.


“Catalytic Functionalization of Alkanes under Mild Conditions”, Federal University of S. Carlos, Brazil, 2008.


“Single-pot Catalytic Peroxidative Oxidation and Carboxylation of Alkanes under Mild Conditions”, National Taiwan University, Taipei, Taiwan, 2009.


“Molecular Electrochemistry of Metal Complexes: Redox Potential-Structure Relationships”, Lomonosov Moscow State University of Fine Chemical Technologies, April, 2013.


“Alkane Functionalization towards Sustainable Catalysis”, Faculty of Chemistry, University of Wroclaw, Poland, September, 2015.

“Research at the Centro de Química Estrutural and Catalytic Alkane Functionalization towards Sustainable Chemistry”, Guang Xi University, China, December, 2015.

"Towards Functionalization of Alkanes under Sustainable Conditions: Roles of Water", University of Liverpool, UK, October 12, 2016.

“Metal-catalysed Oxidations of Alkanes, Alcohols and Water”, National Tsing Hua University (Hsinchu city) and National Taiwan Normal University (Taipei city), Taiwan, November 10 and 11, 2016.

“Catalysis: the Magic Chemistry”, Saint Petersburg State University, Institute of Chemistry, Guest Lecturer within the Russian Program on Iberian-American Cooperation, June 15th, 2018 (awarded for the 1st time to the Science field).

“The College of Chemistry of the University of Lisbon”, Beijing University of Chemical Technology, Beijing, China, December 5th, 2018.
“Catalysis at the University of Lisbon”, Beijing University of Chemical Technology, Beijing, China, December 5th, 2018.