

IDW 1985 University of Toronto Program – reconstructed from old file

Program Chair: Robert Morris

Organizing committee: Robert Morris, John Powell, Dave Farrar

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Invited Presentations

Jeffrey Schwartz, Princeton University,

“Chemistry of Oxide-Bound Organorhodium Complexes”

Andrew Wojcicki, The Ohio State University

“Chemical Behavior of Binuclear Phosphido- and Thiolato-bridged Iron Complexes toward Nucleophiles and Electrophiles”

Contributed Presentations (by research group in alphabetical order)

Howard Alper, University of Ottawa

"Rhodium Catalyzed Conversion of Amines to Carbamate Esters under Exceptionally Mild Conditions" Fred Hartstock

Elmer Alyea, (G.W.C.)² University of Guelph

“Metal Complexes of a New Bidentate Phosphine Ligand”

"The Coordination Properties of Dibenzophosphole" John Malito

Jim Attwood, Chemistry, SUNY University at Buffalo

"Some Reactions of Sixteen Electron Iridium Alkoxides"

Mike Baird, Queen's University

"Diene Insertion into Metal-Hydrogen Bonds" Thomas Shackleton

“CoNO(CO)₃ in Zeolites as a Shape-selective Fischer-Tropsch Catalyst” R Kurt Ungar

“Organometallic Chemistry of Rhodium(I) Triphos” Greg Johnston

"Fragmentation and Recombination Reactions of Ru₃(CO)₁₂" W. Ross Hastings

"Oxidative Cleavage Reactions of the Compounds η -5-(C₅Me₅)Os(CO)LMe" Laura Sanderson

"Ruthenium-induced Formation of Ketenes from Acid Halides"

Robert Balahura, Chemistry(G.W.C.)2 University of Guelph

"Electron Transfer Between Strongly Interacting Complex Ions"

"Reduction of Metal Complexes by Dithionite -- Does the Marcus Cross Relation Apply?"

Andre L. Beauchamp and Minh Tan Phan Viet, University of Montreal

“NMR Study of Methylmercury Derivatives of Adenosine “

Doug Bickley, Mount Allison University

Arthur Carty, Chemistry(G.W.C.)2 University of Waterloo

"Chemical Transformations on the Pentanuclear Ruthenium Cluster Ru₅(CO)₁₃(μ -4- η -2-C=CPh)(μ -PPh₂)"

"Chemistry Down a Triad. Reactivity of M₂(CO)₆(μ - η -2-C₂Ph)(μ -PPh₂), M= Fe, Ru, Os with nucleophiles"

"³¹P NMR Studies of Intramolecular Isomerizations of Phosphine Substituted Phosphido-acetylide-Bridged Binuclear Complexes- M₂(CO)₄(μ - η -2-C=CR)(μ -PPh₂)" L. Randal

"Reactivity of the μ -Methylene Ligand in Ru₃(CO)₇(μ -PPh₂)(μ -CH₂)(μ - η -3-CH₂CC(i-Pr))"

"Heterometallic Tri- and Tetranuclear Fe(Ru, Os)/Ni Clusters with Acetylide and Acetylene Ligands"

Chieh Chung, Chemistry(G.W.C.)2 University of Waterloo

"Induced Redox Reaction Between Molybdenum Dithiocarbamate Complexes and Chloroform. The Crystal Structure of [Mo(dtc)₄]₂(Cl.H₂O)₂.2CHCl₃"

Howard Clark, Dalhousie University

"Preparation and Reactions of Some Mixed Ligand Complexes of Pt(II)" V. K. Jain

“Addition / Reductive Elimination”"Solution Chemistry of Some Sterically Hindered Pt(II) Complexes" Mark Hampden-Smith, H. Ruegger

Scott Collins, Chemistry(G.W.C.)2 University of Waterloo

"The Tetrasilabicyclo[1.1.0]butane System: Preparation, Structure and Reactivity." Satoru Masamune, Yoshio Kabe, Scott Collins, David J. Williams, Ray Jones.

Phyll Dean and Nick Payne, University of Western Ontario

"Synthesis , NMR Spectra and Structure of [(CdX)₄(μ -EPh)₆]₂- (E= S or Se, X= halogen)"

John Drake, University of Windsor

"Dithiophosphates of Germanium and Tellurium" R. K. Chadha

Dave Farrar, University of Toronto

"Reaction of $\text{Pt}_3(\text{CO})_3(\text{p}(\text{t-Bu})_2\text{Ph})_3$ with HCl" C. Couture, D. Fisher

"Synthesis and Characterization of High Nuclearity Osmium-Platinum Clusters" C. Couture

Ram G. Goel, (G.W.C.)² University of Guelph

"A Solid State ³¹P CP-MAS NMR Study of Phosphine Complexes of Mercury(II)" Tim Allman

Steve Hartman, Brock University

"NMR of a Complex Natural Mineral Series: A Multinuclear Magic Angle Spinning NMR Study of Scapolites" H. D. Grundy

David Holah, Lakehead University.

Clive Holloway, York University

"Yttrium Magnetic Resonance of Simple Complexes" I. M Walker

William Jones, University of Rochester.

"R-H (R= alkyl and aryl) Activation and Functionalization by Cyclopentadienyl Rhenium Hydrido Phosphine Complexes"

"The Activation of Unsaturated Hydrocarbons by Ruthenium Phosphine Complexes"

"Inter vs. Intramolecular C-H Bond Cleavage Reactions of $\text{Rh}(\text{C}_5\text{Me}_5)\text{H}_2(\text{PR}_3)$ (R= alkyl and aryl)
E. Libertini

Jerry Keister, University of Buffalo

"Kinetics and Mechanism of Reductive Elimination of CH_3X from $\text{Ru}_3\text{H}_3(\text{CX})(\text{CO})_9$ "

Colin Lock, McMaster University

"Interaction of Trans-platin with DNA" R. Beyerle, J. Britten, R. Faggiani, B. Lippert C. Lock and P. Pilon

Todd Marder, University of Waterloo

"Rhodium-catalyzed Cyclization of Alkynoic Acids to Alkylidene Lactones"

Donal Maccartney, Queen's University

"Substitution and Redox Reactions of Dirhodium Carboxylate Complexes" Manuel Aquino

Mike McGlinchey, McMaster University

"Synthetic And Spectroscopic Investigations of Trimetallic Acylium Cation Clusters " Michael Mlekuz

"A High Field NMR Study of Some Organometallic Complexes of Steroids"

Barry Lever, York University

"Correlations between Optical Spectroscopy and Electrochemistry" E. Dodsworth

"Spectro-electrochemical Studies of [Tetra(sulphonato)phthalocyaninato]Cobalt and Iron" M. Melnik

Jack Miller, Brock University

"Tris(dizoxa-3,6-heptyl)amine / alkali metal cation complexes" R. Theberge

Robert Morris, University of Toronto

"Transition Metal Complexes of Dihydrogen With the H-H Bond Still Intact"

"The Synthesis, $^{31}\text{P}\{^1\text{H}\}$ and ^1H NMR Spectra and Electrochemical Properties of Group(VI) Metal Dimers, Each Containing a Bridging $\eta\text{-}6\text{-Arylphosphine}$ Ligand" Rudy L. Luck

"Synthesis of New $\eta\text{-}6\text{-Arylphosphine}$ Complexes of Molybdenum(0) and Their Reactions with HBF_4 " Andrea Sella

Richard Oakley, (G.W.C.)² University of Guelph

"Intermolecular Interactions in Sulfur-nitrogen Ring Compounds"

"Stereochemistry of Oxidation of Thiazenes"

John Powell, University of Toronto

"Mechanisms for Hydrogen Transfer and Carbon Monoxide Labilisation in a 'Re-Pt' Heterobimetallic System" Mathew Stainer

"Synthesis and Reactivity of Heterobimetallic Bis- μ -phosphidocarbonyl complexes"

"Formation and Reactivity of μ -Silylene- μ -hydrido Manganese-Platinum Compounds"

Mary Richardson, Brock University

"Fast Atom Bombardment"

Alan Shaver, McGill University

"Reactivity of $\text{Cp}_2\text{Ti}(\text{CO})_2$ "

Gary Schrobilgen, McMaster University

"Xenon chemistry"

Doug Stephan, University of Windsor

"Rhodium Complexes of Phosphorus-sulfur Ligands: Synthesis, Reactivity and Structure" D. Dick

"The Preparation, Characterization and Reactivity of the Early transition metal/ late transition metal heterobimetallic Complexes: $(\text{C}_5\text{H}_5)_2\text{Zr}(\mu\text{-PPh}_2)_2\text{ML}_n$ M= Ni, Pd, Pt." L. Gelmini

"Synthesis and Characterization of the Ligands $(\text{C}_5\text{H}_5)_2\text{Ti}(\text{SCH}_2\text{PPh}_2)_2$, n= 2, 3 and Some Bimetallic Derivatives" Graham White

"Towards Copper(II) Hemocyanin Models: Synthesis and Characterization of Binuclear Copper(II) Complexes of a Heptadentate Ligand"

Denis Stynes, York University

"MLCT Photochemistry of Low Spin d_6 Ferrous Bis-Dioxime Complexes of π -Acid Ligands"

Ken Takeuchi, University of Buffalo

"The Synthesis and Characterization of Ruthenium(III)-Nitro Complexes Which Contain Tertiary Phosphine Ligands" L. Leising.

"High Oxidation State Ruthenium Complexes Which Contain Phosphine Ligands" M. Marmion

"Ruthenium(II) and Osmium(II) Clathrochelate Complexes." J. Grzybowski.

Gerry Toogood, Chemistry(G.W.C.)2 University of Waterloo.

"Properties of NaI.1.5 H₂O.1.5 CH₃CN Including Its Crystal and Molecular Structure and Raman Spectrum" I.R. Hill, D. E. Irish, N. J. Taylor