

Saturday AM

Niagara Room

IDW/Post-ISOS
Conference - Session A

Chair(s) - Laura Pavelka

08:30 Introductory
Remarks

08:40 0330 *New Pathways in Metal-Mediated Transformations of Organosilicon Compounds*
***Tilley T.D.**

09:20 0331 *A 3,6-Bis(2-pyridyl)pyridazine Complex of Dimethylplatinum(II): An Attempt at Bimetallic C-H Bond Activation*
***McCready M.S.**, ***Puddephatt R.J.**

09:40 0396 *Double Single-Crystal-to-Single-Crystal Transformation and Small Molecule Activation in Rhodium NHC complexes*
Zenkina O.V., Keske E.C., Wang R., ***Crudden C.M.**

10:00 Coffee Break

10:20 0333 *Selective Dehydrogenation of Alcohols Catalyzed by Pincer Complexes of Osmium and Rhenium*
***Spasyuk D.M.**, ***Goussev D.G.**

10:40 0334 *Investigating the Electronic Structure of $M(\text{bxqdi-R}_2)_2$ Complexes ($M=\text{Co, Ni, Cu}$)*
Kapovsky M., ***Lever A.B.P.**

11:00 0335 *Phenylcyanamide Ruthenium(II) Scorpionate Complexes*
Harb C., ***Crutchley R.J.**

11:20 0336 *Mono- and Binuclear Carbonyl-Containing Complexes of Ru and Mn with 4'-(4-Pyridyl)-2,2':6',2''-terpyridine Bridging Ligand: Synthesis, Spectroscopic and Electrochemical Properties*
de Aguiar I., Carlos R.M., ***Lever A.B.P.**

11:40 End of Session

Elizabeth Room

IDW/Post-ISOS
Conference - Session B

Chair(s) - Brad Berven

08:30 Introductory Remarks and Invited Lecture presented by T. Don Tilley in the Niagara Room

09:20 0337 *N-Alkyl Iminodiacetic Acids: Coordination Structures, Metallomacelle Generation and Properties and Oxidative Catalysis of Organic Substrates in Aqueous Media*
***Cull J.E.W.**, **Habib F.**, **Korobkov I.**, **Murugesu M.**, ***Scott J.L.**

09:40 0338 *Investigating the Crystallization of SAPO-11 Using Dry-Gel Conversion Methods*
***MacIntosh A.R.**, ***Huang Y.**

10:00 Coffee Break

10:20 0339 *Cationic Complexes of Tin(II)*
Avery J.C., **Hanson M.A.**, **Herber R.H.**, ***Baines K.M.**

10:40 0340 *Ionothermal Synthesis of Zeolite Molecular Sieves Using Deep Eutectic Mixtures*
***Lin Z.S.**, ***Huang Y.**

11:00 0341 *Tuning Ionic Liquids for Thin Films to Maximize Hydrophobicity*
***Corkery T.C.**, **Chan J.**, ***Ragogna P.J.**

11:20 0342 *Graminophosphines: A New Class of Ionic Liquid Soluble Ligands and their Application in CC Coupling Reactions*
***Keith A.J.**, **Kosik S.D.**, **Patel K.**, **Lopez J.**, **Tillekeratne L.M.V.**, ***Mason M.R.**

11:40 End of Session

Saturday PM

Niagara Room

IDW/Post-ISOS
Conference - Session A

Chair(s) - Theresa McCormick

13:00 0343 *Activation of Dioxxygen and Heavier Chalcogens with Nickel? Challenges from Fundamentals to Catalysis*
Driess M., **Yao S.**

13:40 0344 *Metal-Diazafluorene Chemistry: Reversible Insertion of CO₂ into a Ligand C-H Bond at Room Temperature*
Annibale V.T., ***Song D.**

14:00 0345 *Mechanism of the Addition of Alkynes to Polar Metallenes ($R_2M=CR_2$; $M = \text{Si, Ge}$): A Density Functional Theory Study*
Pavelka L.C., **Hanson M.A.**, **Staroverov V.N.**, ***Baines K.M.**

14:20 0346 *Novel Germanium, Tin and Lead Amides, Amidinates, Guanidinates and Beta-Diketiminates*
Chlupaty T., **Olejnik R.**, **Vankatova H.**, **Padelkova Z.**, ***Ruzicka A.**

14:40 Coffee Break

15:00 0347 *Fluorous Phosphines via PH₃ and New Polymerizable Borate Anions*
Berven B.M., ***Ragogna P.J.**

15:20 0348 *Photogeneration of H₂ Using Ruthenium Based Photosensitizers and a Cobalt Bis(dimethylglyoximate) Complex as the Catalyst*
Dares C., **Fournier R.**, **Lever A.B.P.**

15:40 0349 *The Frontier of Molecular Magnetic Materials: Dithiadiazolyl and Diselenadiazolyl Coordination Complexes*
MacDonald D.J., ***Preuss K.E.**, **Clerac R.**

16:00 End of Session

Elizabeth Room

IDW/Post-ISOS
Conference - Session B

Chair(s) - John Hayward

13:00 Invited Lecture presented by Matthias Driess in the Niagara Room

13:40 0350 *What Exactly Do You Measure in ¹²⁵Te NMR?*
Elder P.J.W., ***Vargas-Baca I.**

14:00 0351 *The Fluoride Ion Donor-Acceptor Properties of ReO₃F*
***Ivanova M.V.**, **Mercier H.P.A.**, ***Schrobilgen G.J.**

14:20 0352 *A Study of Transition-Metal Organometallic Complexes Using ^{35}Cl NMR, ^{35}Cl NQR and First-Principles DFT Calculations* **Johnston K.E.**, $^{\text{S}}$ Schurko R.W.

14:40 Coffee Break

15:00 0353 *Coordination Study of Imino-N-heterocyclic Carbene Ligands to Nickel and Palladium Metals* **Badaj A.C.**, $^{\text{L}}$ Lavoie G.G.

15:20 0354 *Synthesis and Coordination Chemistry of 1,2,3-Mesoionic Carbene CCC Pincer Ligands* **Keske E.C.**, $^{\text{S}}$ Crudden C.M.

15:40 0355 *Coordination Study of the First Bis(Imino)-N-heterocyclic Carbene Pincer (NCN) Ligand to Transition Metals* **Al Thagfi J.**, $^{\text{L}}$ Lavoie G.G.

16:00 End of Session

Niagara Room

IDW/Post-ISOS - Poster Session A

From **16:00** until **17:00**

0356 *Metal Complexes with a "Clamshell" Phosphenium Ligand* **Brazeau A.L.**, Jones N.D., $^{\text{S}}$ Ragogna P.J.

0357 *Thiazyl Fused Quinone Radical Ligands* **Carello C.E.**, $^{\text{S}}$ Preuss K.E.

0358 *The Addition of Nitriles to Digermenes* **Cook E.E.**, Hardwick J.A., $^{\text{S}}$ Baines K.M.

0359 *Surface Treatment of Areca-Nut Fiber Using Silane and Gamma Radiation: Fabrication of Polycaprolactone Based Composite* **Dey K.**, $^{\text{S}}$ Chowdhury S., Khan R.

0360 *Catalytic Stannylation of Fluorinated Aromatic C-H Bonds by Ni(0) and a Nitrogen Ancillary Ligand* **Doster M.E.**, $^{\text{L}}$ Johnson S.A.

0361 *Synthesis of New Main Group-Phosphine Coordination Compounds* **Dube J.W.**, $^{\text{S}}$ Ragogna P.J.

0362 *Terphenyl Substituted Silyl Cations - Unexpected Transformations due to Solvent Interaction* **Gerdes C.**, $^{\text{S}}$ Müller T.

0363 *Terphenyl Substituted 7-Silanorbornadienyl Cations as Precursors for Elusive Silyliumylidenes by Thermal Fragmentation Reactions* **Gerdes C.**, $^{\text{S}}$ Müller T.

0364 *Fluorinated Phosphenium Ion Monomers for the Fabrication of Hydrophobic Films* **Guterman R.**, Corkery T.C., Berven B.M., $^{\text{S}}$ Ragogna P.J.

0365 *Solid State NMR Spectroscopy of Low Valent Germanium Halides* **Hanson M.A.**, Terskikh V., Schnepf A., Huang Y., $^{\text{S}}$ Baines K.M.

0366 *Kubas-Type Hydrogen Storage in Transition Metal Hydrazide Gel Materials* **Hoang T.**, $^{\text{S}}$ Antonelli D.

0367 *Acetylene Inserted Carbodistannanes* **Khan A.**, $^{\text{S}}$ Foucher D.

0368 *The Quest for Nickel(IV) Organofluorine Complexes* **Kivi C.E.**, Harrison D.J., Baker R.T.

0369 *A Comparison of the Stabilities of N-Alkyl-benzo-2,1,3-selenadiazolium Cations* **Lee L.M.**, $^{\text{S}}$ Vargas-Baca I.

0370 *Synthetic Routes to the 1,2,3-Dithiazolyl-6,7-dimethoxyquinoline Radical Ligand* **Lee Y.T.**, $^{\text{S}}$ Preuss K.E.

0371 *Spin Bearing Thiazyl Quinone Ligands towards Molecular Materials* **Maahs A.C.**, $^{\text{S}}$ Preuss K.E.

Niagara Room

IDW/Post-ISOS - Poster Session B

From **17:00** until **18:00**

0372 *Novel Iron-Based Catalyst for Hydrogenation of Alkenes and Carbonyls* **Maguire S.M.**, $^{\text{S}}$ Baker R.T.

0373 *Nano-Ordered Ceramics via Self-Assembly of Organic-Inorganic Block Copolymers* **Michel S.**, $^{\text{S}}$ Richeson D., $^{\text{L}}$ Malenfant P.

0374 *Synthesis and Characterization of a New 1,2,5-Thiadiazolyl Radical Ligand* **Morgan I.S.**, $^{\text{S}}$ Preuss K.E., Jennings M., Clerac R., Vindigini A.

0375 *Structures of Lithium Compounds containing Various Ligands* $^{\text{S}}$ Padelkova Z., Ruzicka A.

0376 *Oxidation of Organoplatinum(II) Complexes by Peroxides* **Pellarin K.R.**, $^{\text{S}}$ Puddephatt R.J.

0377 *Group 16 Chalcogen Complexes containing a 2,2'-Bithiazole, 5,5'-di-2-thienyl Backbone and their Ability to Form Polymers* **Price J.T.**, $^{\text{S}}$ Ragogna P.J.

0378 *Synthesis of Silicon and Germanium Nanoparticle Clusters Through Inter Particle Linking* **Purkait T.K.**, Xu Z., Grayson S.M., Jayawickramarajah J., $^{\text{S}}$ Fink M.

0379 *Addition of Aldehydes to Germenes: The Influence of Solvent* Allan C.J., **Reinhold C.R.W.**, Pavelka L.C., $^{\text{S}}$ Baines K.M.

0380 *The Reactions of Amine-Boranes with Dimethyl(2,2'-bipyridine)platinum(II) Derivatives and Trapping of the Platinum Hydride* $^{\text{S}}$ Robinson S.M., $^{\text{L}}$ Puddephatt R.J.

0381 *Electrochemical Azido-Selenenylation of Some Olefins* **Rouhollahi A.**, Asghari Z., Movassagh B.

0382 *CO₂-Activation by Silyl Cationic Lewis Pairs* **Schäfer A.**, $^{\text{L}}$ Müller T.

0383 *A New Synthetic Route to Triaryl Substituted Silylium Ions*
Schäfer A., Schäfer A., Müller T.

0384 *Synthesis and Characterization of Dithiazyl Radical Naphthoquinone Species*
Sullivan D.J., [§]Preuss K.E., Jennings M.

0385 *Synthesis, Luminescent Properties and Reactivities of Dipyrindylamine Functionalized Anthracene*
Tan R., Wang Z., Kozera D.J., Lu Z.H., [§]Song D.

0386 *Heavy p-Block Analogues of Thiazyl Radicals* [§]Rawson J., **Tran T.**

0387 *The Mechanism of Hydroaminoalkylation Reaction of Alkenes - A Theoretical Investigation^{††}*
Zark P., Prochnow I., Doye S., [§]Müller T.

Sunday AM

Niagara Room

IDW/Post-ISOS Conference - Session A

Chair(s) - Chris Corkery

08:40 0388 *Strained Metallorings as Precursors to Functional and Self-Assembled Metallopolymers* [§]**Manners I.**

09:20 0389 *The Reaction of Group 15 Superacids with Cyclic and Polymeric Chlorophosphazenes*
Tun Z.-M., **Bowers D.J.**, Heston A.J., Panzner M.J., Scionti V., Wesdemiotis C., Youngs W.J., [§]Tessier C.A.

09:40 0390 *Preparation and Characterization of Hollow Silicone Nanocapsules*
Kuzmicz D., Kepczynski M., Szuwarzynski M., Nowakowska M., Bednar J., Olejniczak Z.

10:00 Coffee Break

10:20 0391 *Investigation of Zeolite Growth by Atomic Force Microscopy*
Chen D., Nie H.-Y., [§]Huang Y.

10:40 0392 *Multinuclear Solid State NMR Studies of Zirconocene/MAO Polymerization Catalysts*
Hildebrand M., Rossini A.J., Johnson S.A., Terskikh V., [§]Schurko R.W.

11:00 0393 *A Step toward High Efficiency Dye-Sensitized Solar Cells, DSSC*
Soheilnia N., [§]Ozin G.A.

11:20 0394 *New Class of Trianionic Constrained Geometry Ligands: Synthesis, Characterization and Representative Complexes*
Yeisley C., Rondo R., Kirschbaum K., [§]Mason M.R.

Introduction of Robert West by Kim Baines

11:40 0395 *The Real Nature of the Silicon-Oxygen Bond*
Weinhold F., **West R.**

12:20 Award Presentations and Closing Remarks

12:40 End of Session