

Publications : Conference Presentations: 2008

1. Mtshali, T.N., Purcell, W., Visser, H.G. 2008. *Synthesis and structural characterization of $[\text{ReN}(\text{LL}-k^2\text{N},\text{O})(\text{CN})_3]^{2-}$ and $[\text{ReN}(\text{LL}-k^2\text{N},\text{N})(\text{CN})_3]^{2-}$* (Poster). 38th ICCS, Israel, Jerusalem, 20-25 July 2008.
2. Mtshali, T.N., Purcell, W., Visser, H.G., Basson, S.S. 2008. *Coordination chemistry of Re(V): Synthesis, characterization and kinetic studies of the formation of $[\text{ReN}(k^2\text{-LL})(\text{CN})_3]^{2-}$ ions in aqueous media.* (Lecture). 6th International Symposium on Technetium and Rhenium Science and Utilization, Port Elizabeth, 7-10 October 2008.
3. Purcell, W., Mtshali, T.N., Visser, H.G. 2008. *A structural and kinetic comparison between $[\text{ReO}(\text{H}_2\text{O})(\text{CN})_4]^-$ and $[\text{ReN}(\text{H}_2\text{O})(\text{CN})_4]^{2-}$.* 6th International symposium on Technetium and Rhenium, NNMU, Port Elizabeth, October 2008.
4. Enow, C.A., Auger, A., Swarts, J.C., Bezuidenhout, B.C.B. 2008. *Epoxidation of alkenes through the utilisation of non-peripherally substituted phthalocyanines.* (Poster). ADHOC-08, Venice, Italy, 20-25 July 2008.
5. Versteeg, M., Bezuidenhout, B.C.B., Ferreira, D. 2008. *Stereoselective synthesis of isoflavonoids.* (Lecture). BOCC-08, Kruger Park, South Africa, 14-19 September 2008.
6. Van Tonder, B., Bezuidenhout, B.C.B. 2008. *Synthesis of 4-arylflavan-3-ol lactones.* (Poster). BOCC-08, Kruger Park, South Africa, 14-19 September 2008.
7. Enow, C.A., Auger, A., Swarts, J.C., Bezuidenhout, B.C.B., 2008. *Epoxidation of alkenes through the utilisation of non-peripherally substituted phthalocyanines.* (Poster). BOCC-08, Kruger Park, South Africa, 14-19 September 2008.
8. Kuo, C.-M., Kamara, B.I., Bezuidenhout, B.C.B. (2008). *Isolation and Synthesis of Compounds from Scilla natalensis.* (Poster). BOCC-08, Kruger Park, South Africa, 14-19 September 2008.
9. Van Tonder, J.H., Robb, L.M., Bezuidenhout, B.C.B., Cole-Hamilton, D.J. 2008. *Selective hydrogenation of α,β -unsaturated ketones.* (Poster). BOCC-08, Kruger Park, South Africa, 14-19 September 2008.
10. Sunil, C.A., Langner, E.H.G., Marais, C., Bezuidenhout, B.C.B. 2008. *Mechanism of the copper catalysed rearrangement of toluic acids to meta-cresol.* (Poster) BOCC-08, Kruger Park, South Africa, 14-19 September 2008.
11. Brink, A., Roodt, A., Visser, H.G. 2008. *Steric vs. Electronic: Spatial variation of ligands affecting rhodium catalytic reaction.* (Poster). ISHC 16: International Symposium of Homogeneous Catalysis, Florence, Italy. 6 - 11 July 2008.
12. Cloete, N., Roodt, A., Visser, H.G. 2008. *Ethylene Tetramerisation: Structural Investigation of the Chromium-based catalyst precursors.* (Poster) ISHC 16: International Symposium of Homogeneous Catalysis. Florence, Italy. 6 - 11 July 2008.
13. Visser, H.G., Schutte, M., Roodt, A., Brink, A. 2008. *Rhenium(I) compounds in Nuclear Medicine. Crystallographica and Kinetic Investigation of different $[\text{Re}(\text{CO})_3(\text{L1})(\text{L2})]^{n+}$ complexes.* IST2008: 6th International Symposium on Technetium and Rhenium. Port Elizabeth, South Africa. 7 - 10 October 2008.
14. Schutte, M., Visser, H.G., Roodt, A. 2008. *Crystallographic Investigation of different $[\text{Re}(\text{CO})_3(\text{L1})(\text{L2})]^{n+}$ complexes.* (Poster) 6th International Symposium on Technetium and Rhenium. Port Elizabeth, South Africa. 7 - 10 October 2008.
15. Steyl, G., Muller, T., Roodt, A. 2008. *Copper oxidase catalysis: oxidation of organic chemicals by direct dioxygen coupled turnover.* (Invited lecture) 23rd International Conference on Organometallic Chemistry (ICOMC2008), University of Rennes 1 in Rennes, France, 13-18 July 2008.

16. Cloete, N., Roodt, A., Visser, H.G. 2008. *Ethylene Tetramerisation: Structural investigation of the Chromium-based catalyst precursors* (Poster). Conference of the Catalysis Society of South Africa, Parys, South Africa, 9-12 November 2008.
17. Engelbrecht, I., Muller, A.J., Roodt, A. 2008. *Olefin hydroformylation model reactions: kinetic reactivity of iridium complexes* (Lecture). DST-NRF c*change Symposium, Parys, South Africa, 7-9 November 2008.
18. Engelbrecht, I., Muller, A.J., Roodt, A. 2008. *Kinetic investigation of model iridium(acetylacetonato) systems for use in olefin interactions/hydroformylation* (Poster). Conference of the Catalysis Society of South Africa, Parys, South Africa, 9-12 November 2008.
19. Engelbrecht, I., Muller, A.J., Roodt, A. 2008. *Kinetic investigation of model iridium(acetylacetonato) systems for use in hydroformylation* (Poster). 39th National Convention of the South African Chemical Institute, Stellenbosch, South Africa, 30 November-5 December 2008.
20. Hill, T., Roodt, A. 2008. *Crystallographic and Computational Aspects of Cyclo-octadiene Systems*. (Poster). 39th National Convention of the South African Chemical Institute, Stellenbosch, South Africa, 30 November-5 December 2008.
21. Kirsten, L., Steyl, G., Roodt, A. 2008. *Carboxylato Rh(I) Phosphite Complexes as Catalyst Precursors in Hydroformylation* (Poster). 39th National Convention of the South African Chemical Institute, Stellenbosch, South Africa, 30 November- 5 December, 2008.
22. Kotzé, P.D.R., Brink, A., Roodt, A., Visser, H.G. 2008. *Electronic variation of Group 15 ligands affecting rhodium catalytic reactions* (Poster). 39th National Convention of the South African Chemical Institute, Stellenbosch, South Africa, 30 November-5 December 2008.
23. Muller, T.J., Roodt, A., Steyl, G. 2008. *Copper based building blocks for oxidation catalysis* (Poster). Conference of the Catalysis Society of South Africa, Parys, South Africa, 9-12 November 2008.
24. Muller, T.J., Roodt, A., Steyl, G. 2008. *Copper based building blocks for oxidation catalysis* (Poster). 39th National Convention of the South African Chemical Institute, Stellenbosch, South Africa, 30 November-5 December 2008.
25. Roodt, A., Venter, G.J.S., Meijboom, R. 2008. *Supramolecular Coordination Chemistry of Silver(I) Complexes with Group 15 Ligands* (Poster). 38th International Conference on Coordination Chemistry, Israel, Jerusalem, 20-25 July 2008.
26. Schutte, M., Visser, H.G., Roodt, A. 2008. *Crystallographic investigation of different $[Re(CO)_3(L_1)(L_2)]^{n-}$ complexes* (Poster). 39th National Convention of the South African Chemical Institute, Stellenbosch, South Africa, 30 November-5 December 2008.
27. Steyn, M., Steyl, G., Roodt, A. 2008. *Speciation and Interconversion Mechanism of Mixed Halo O,O- and O,N- Bidentate Ligand Complexes of Zirconium* (Lecture). DST/AMI Panel Visit for AMI conference 2008, NECSA, Pelindaba, South Africa, 2 September 2008.
28. Steyn, M., Steyl, G., Roodt, A. 2008. *Speciation and Interconversion Mechanism of Mixed Halo O,O- and O,N- Bidentate Ligand Complexes of Zirconium* (Lecture). Advanced Metals Initiative Conference, Gold Reef City, Johannesburg, South Africa, 18 November 2008.
29. Venter, G.J.S., Steyl, G., Roodt, A. 2008. *$[Rh(bid)(CO)_2]$ complexes and their PX_3 derivatives: an oxidative addition study* (Poster). 39th National Convention of the South African Chemical Institute, Stellenbosch, South Africa, 30 November-5 December 2008.
30. Viljoen, J.A., Muller, A.J., Roodt, A. 2008. *Speciation and interconversion mechanism of mixed halo O,O'- and O,N-bidentate ligand complexes of Hafnium* (Lecture). DST/AMI Panel Visit for AMI conference 2008, NECSA, Pelindaba, South Africa, 2 September 2008.

31. Viljoen, J.A., Muller, A.J., Roodt, A. 2008. *Speciation and interconversion mechanism of mixed halo O,O'- and O,N-bidentate ligand complexes of Hafnium* (Lecture). Advanced Metals Initiative Conference, Gold Reef City, Johannesburg, South Africa, 18-19 November 2008.
32. Monnahela, S.O., Carstens, P.A.B., Wagener, J.B., Moolman, D., De Waal, D., Roodt, A. 2008. *Analysis of the ZrO₂ / HF reaction using Raman spectroscopy* (Poster). 21th **International Conference on Raman Spectroscopy, ICORS 2008, Uxbridge, West London, UK, 17th - 22nd August 2008.**
33. Roodt, A., Venter, G.J.S., Meijboom, R. 2008. *Supramolecular coordination chemistry of silver(I) complexes with group 15 ligands* (Poster). 38th International Conference on Coordination Chemistry, Israel, Jerusalem, 20-25 July 2008.
34. Roodt, A., Muller, A.J. 2008. *Solid state packing behaviour in pseudo Vaska-type complexes* (Poster). 21st Congress and General Assembly of the International Union of Crystallography, Osaka, Japan, 23-31 August 2008.
35. Venter, J.A., Basson, S.S. and Purcell, W. 2008. *Unravelling the effect of phosphine ligands and solvents on the oxidative addition of rhodium(I) cupferrate complexes* (Poster). 23rd ICOMC, Rennes, France, 13-18 July 2008.
36. Dikobe, D.G., Luyt, A.S. 2008. *Thermal and mechanical properties of polymer blend/wood flour composites*. 13th European Conference on Composite Materials, Stockholm, Sweden, 2-5 June 2008.
37. Mohomane, S.M., Luyt, A.S. 2008. *Morphology and properties of polychloroprene nanocomposites*. Polymer Processing Society 24th Annual Meeting, Salerno, Italy, 15-19 June 2008.
38. Luyt, A.S. 2008. *Paraffin wax in polymer blends and composites: Is it worth investigating?*, *Polyméry 2008*, , Stará Lesná, Slovakia (special guest lecture after receiving an honorary medal from the Polymer Institute, Slovak Academy of Sciences), 28 September – 1 October 2008.
39. Dikobe, D.G., Luyt, A.S. 2008. *Morphology and thermal properties of PP/LLDPE/WP and MAPP/LLDPE/WP polymer blend composites*. 10th Annual UNESCO/ IUPAC Conference on Macromolecules & Materials, Kruger National Park, 7-11 September 2008.
40. Mohomane, S.M., Luyt, A.S. 2008. *Thermal, mechanical, and morphological properties of polychloroprene/montmorillonite nanocomposites*. 10th Annual UNESCO/ IUPAC Conference on Macromolecules & Materials, , Kruger National Park, 7-11 September 2008.
41. Mokoena, M.A., Luyt, A.S. 2008. *Investigation of fibre reinforced HDPE composites crosslinked/grafted through siloxane linkage*. 10th Annual UNESCO/IUPAC Conference on Macromolecules & Materials, Kruger National Park, 7-11 September 2008.
42. Molefi .J.A., Luyt, A.S., Krupa, I. 2008. *Thermal and mechanical properties of phase change conductive polymer composite materials*. 10th Annual UNESCO/IUPAC Conference on Macromolecules & Materials, Kruger National Park, 7-11 September 2008.
43. Motaung, T.E., Mishra, S.B., Luyt, A.S. 2008. *Morphology and properties of sol-gel prepared LDPE silica nanocomposites*. 10th Annual UNESCO/IUPAC Conference on Macromolecules & Materials, Kruger National Park, 7-11 September 2008.
44. Nhlapo, L.P., Luyt, A.S. 2008. *Thermal and mechanical properties of the LDPE/sisal fibre composites compatibilized with modified paraffin waxes*. 10th Annual UNESCO/IUPAC Conference on Macromolecules & Materials, Kruger National Park, 7-11 September 2008.
45. Venter, J.A., Basson, S.S., Purcell, W. 2008. *Unravelling the effect of phosphine ligands and solvents on the oxidative addition of rhodium(I) cupferrate complexes* (Poster). 23rd ICOMC, Rennes, France, 13-18 July 2008.

46. Langner, E.H.G., Conradie, J., Ghosh, A., Swarts, J.C. 2008. *A computational study of octa substituted tetrabenzocorrolazines*. 5th International Conference on Porphyrins and Phthalocyanines, ICPP5, Moscow, Russia, 6-11 July 2008.
47. Swarts, J.C. 2008. *Unusual scrambling reactions, atropisomerisation and electrochemical quantification of meso substituent polarization effects in ferrocene-containing porphyrins*. The 5th International Conference on Porphyrins and Phthalocyanines, ICPP5, Moscow, Russia, 6-11 July 2008.
48. Fourie, E., Swarts, J.C. 2008. *Synthesis and kinetic studies of metallocene-containing as well as fluorine-containing rhodium(I) complexes*. 16th International Symposium on Homogeneous Catalysis, ISHC16, Florence, Italy, 6-11 July 2008.
49. Barnard, N.I., Swarts, J.C. 2008. *Hot Stuff!! Structural, optical and thermal properties of a DSC investigation of metal-carboxylates*. 16th International Symposium on Homogeneous Catalysis, ISHC16, Florence, Italy, 6-11 July 2008.
50. Gericke, H., Swarts, J.C. 2008. *Synthetic, electrochemistry and structural aspects of ferrocene-containing tris-betadiketonato aluminium(III) complexes*. 16th International Symposium on Homogeneous Catalysis, ISHC16, Florence, Italy, 6-11 July 2008.
51. Fourie, E., Swarts, J.C. 2008. *Synthesis and electrochemistry of metallocene-containing rhodium(I) complexes*. 23rd International Conference on Organometallic Chemistry, ICOMC23, Rennes, France, 13-18 July 2008.
52. Barnard, N.I., Swarts, J.C. 2008. *Mixed metallocenes. Ferrocene-containing betadiketonato titanium(IV) complexes*. 23rd International Conference on Organometallic Chemistry, ICOMC23, Rennes, France, 13-18 July 2008.
53. Swarts, J.C., Auger, A., Muller, A.J. 2008. *Unusual scrambling reactions and electrochemical quantification of meso substituent polarization effects of ferrocene-containing porphyrins*. 23rd International Conference on Organometallic Chemistry, ICOMC23, Rennes, France, 13-18 July 2008.
54. Gericke, H., Swarts, J.C. 2008. *The synthesis and electrochemical communication of ferrocene-containing tris-betadiketonato aluminium(III) complexes*. 23rd International Conference on Organometallic Chemistry, ICOMC23, Rennes, France, 13-18 July 2008.
55. Bonnet, S.L., Montsho, R.M., Jarak, I., Van der Westhuizen, J.H. 2008. *One pot synthesis and structure elucidation of free phenolic isoaurones. (Stereochemistry of tri-substituted alkenes)*. Bruker NMR user meeting, Mkhuzi, SA, 23-25 July 2008.
56. Achilonu, M.C., Bonnet, S.L., Van der Westhuizen, J.H. 2008. *Synthesis and structure elucidation of novel proanthocyanidins. Silver catalyzed C-C-bond formation*. Bruker NMR user meeting, Mkhuzi, SA, 23-25 July 2008.
57. Wilhelm, A., Bonnet, S.L., Van der Westhuizen, J.H. 2008. *Photochemistry of (+)-catechin and (-)-epicatechin*. (Poster). International Conference in Organic Synthesis (IUPAC/ICOS-17), Daejeon, South Korea, 22-27 June 2008.
58. Achilonu, M.C., Bonnet, S.L., Van der Westhuizen, J.H. 2008. *Synthesis of proanthocyanidins Part 1. The first oxidative formation of the interflavanyl bond*. (Poster). International Conference in Organic Synthesis (IUPAC/ICOS-17), Daejeon, South Korea, 22-27 June 2008.
59. Wilhelm, A., Bonnet, S.L., Van der Westhuizen, J.H. 2008. *Photochemistry of aromatic flavanoid derivatives*. (Poster). SACI-GDCh Bi-National Organic Conference '08 incorporating the Frank Warren Conference in Organic Chemistry, Kruger Park, Skukuza, South Africa, 14-19 September 2008.
60. Han, Z., Bonnet, S.L., Van der Westhuizen, J.H. 2008. *Syntheses of xanthine derivatives by photolysis of pentoxifylline: an ambident chromophore*. (Poster). SACI-GDCh Bi-National Organic Conference '08 incorporating the Frank Warren Conference in Organic Chemistry, Kruger Park, Skukuza, South Africa, 14-19 September 2008.