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**Position**: Senior Lecturer (Inorganic Chemistry)
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**Research interests**: Organometallic synthesis, multimetal carbene complexes, spectroscopic and electrochemical applications

**Publications over the past five years:**

**Journal articles**:

Invited paper: Recent advances in the field of multicarbene and multimetal carbene complexes of the Fischer-type, D.I. Bezuidenhout, S. Lotz, D.C. Liles, B. van der Westhuizen, Coord. Chem. Rev. 256 (2012) 479 - 524.

Rhenium ethoxy- and hydroxycarbene complexes with thiophene substituents, S. Lotz, M. Landman, A.J. Olivier, D.I. Bezuidenhout, D.C. Liles, E.R. Palmer, Dalton Trans. 40 (2011) 9394-9403.

Polymetallic Fischer carbene complexes of Group VI transition metals: synthesis, structure and substituent effect investigation, D.I. Bezuidenhout, W. Barnard, B. van der Westhuizen and D.C. Liles, Dalton Trans. 40 (2011) 6711-6721.

Synthesis, characterization and structural studies of multimetallic ferrocenyl carbene complexes of Group VII transition metals, D.I. Bezuidenhout, S. Lotz, M. Landman, D.C. Liles, Inorg. Chem. 50, (2011) 1521-1533.

Properties of homo- and heteronuclear mixed biscarbene complexes with conjugated bithiophene units, M. Landman, J. Ramontja, M.van Staden, D.I. Bezuidenhout, P.H. van Rooyen, D.C. Liles S. Lotz, Inorganica Chimica Acta 363 (2010) 705 -717.

Synthesis and reactivity of metal carbene complexes with heterobiaryl spacer substituents, S. Lotz, C. Crause, A.J. Olivier, D.C. Liles, H. Görls, M. Landman, D.I. Bezuidenhout, Dalton Transactions (2009) 697-710.

Steric and Electronic Effects of Metal-Containing Substituents in Fischer Carbene Complexes of Chromium, D.I. Bezuidenhout, E. van der Watt, D.C. Liles, M. Landman, S. Lotz, Organometallics 27 (2008) 2447-2456.

Axial and equatorial carbene ligands of dimanganese and dirhenium monocarbene complexes: Synthesis, characterisation and structural studies, D.I. Bezuidenhout, D.C. Liles, P.H. van Rooyen, S. Lotz, Journal of Organometallic Chemistry 692 (2007) 774-783

**Conference proceedings**:

Novel N,N'-diarylated bis(mesoionic carbene) amido pincer ligands and applications of their transition metal complexes, 4th EUCheMS International Conference, Prague, Czech Republic, 25-30 August 2012.

Controlled metal-metal communication of ferrocenyl carbene complexes, 25th International Conference on Organometallic Chemistry, Lisbon, Portugal, 2 – 7 September 2012.

Fischer carbene metal cluster complexes of Group VII transition metals, 24th International Conference on Organometallic Chemistry, Taipei, Taiwan, 18 – 23 July 2010.

Steric and electronic effects of metal-containing substituents on Fischer carbene metal clusters,