

## Editorial – *Main Group Chemistry*, First Issue

The contents of this first issue of *Main Group Chemistry* provide a clear confirmation of how important and interesting a journal devoted to the main group elements can be. Since first announcing the journal several months ago we have been flooded with manuscripts. Our plan to have a quarterly journal containing high quality manuscripts seems to be coming rapidly to fruition. The articles in this issue provide the precedent for the quality of work the journal expects to publish. They also provide examples of the breadth of main group research we hope to include in each issue. The elements, Ca, B, Al, Ga, Sn, P, S, Se, and Cl are covered in the articles; an almost complete (and unplanned) sweep of the main group elements. Furthermore both fundamental and applied chemistry is described. In fundamental work, new sulfur ylides are reported in Roesky *et al.*'s article, "Synthesis and Chemical Properties of Tetraalkyl Substituted Thiourea Adducts with Chlorine". Cowley *et al.* describes a new group 13 bonding mode in "Synthesis and Structure of ( $\eta$ -C<sub>5</sub>Me<sub>5</sub>)Ga $\rightarrow$ Al(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>. The First Example of a Gallium-Aluminium Bond". Cea-Olivares *et al.* reports interesting new group 2 structure and reactivity in the article, "Ca[(Ph<sub>2</sub>PO)<sub>2</sub>N]<sub>2</sub>·*n*THF, an  $\alpha$ -Hydroperoxidation Promoter of Coordinated THF Molecules". Laitinen *et al.* provide theoretical calculations on interesting selenium ligands, and also demonstrate the close relationship between main group and transition metal chemistry in, "Ligand Chemistry of Alkylselenolates: An Experimental and DFT Study of The Formation and Structural Characterization of [PtCl<sub>2-x</sub>(SeR)<sub>x</sub>(PPh<sub>3</sub>)<sub>2</sub>] (*x* = 1,2; R = *t*Bu, *n*Bu)". Of more applied interest is the environmental submission by Eng and co-workers, "Effects of pH on the Speciation of Several Triorganotin Compounds in Anacostia River Sediments Using Mössbauer Spectroscopy". The one Review in this issue, "Phosphorus Selenium Heterocycles", is by Gray and Woollins, who survey the remarkable beauty and complexity in cyclic P-Se compounds. My own contributions to this issue describe a unique Yb-Al cluster and its conversion to a solid state material in the Communication, "Use of A Structurally Characterized Molecular Cluster to Form Yb<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> under Ambient Conditions". My second contribution is a Note, "First Example of Borate Bridged Dimeric Aluminum-Schiff Base Complex Containing Five-coordinate Metal Centers" where both the crystal structure and chemistry of an interesting serendipitous product are described.

Thus, these contributions provide examples of a Communication, Articles (or "full papers", a Review, and a Note. Perhaps more importantly this issue of *Main Group Chemistry* will provide you with an inspiring, edifying, glimpse of main group chemistry. It is my hope that every issue of the journal provides you with such an interesting view of the diversity and importance of main group chemistry.

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