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#### **ACADEMIC PROFILE:**

Ph.D. Chemistry (2010)

Indian Institute of Technology Madras, Chennai

**Topic: "Synthesis and reactivity of heterodimetallaboranes of group 6 transition metals"**

M.Sc. Chemistry (2005)

Utkal University, Bhubaneswar

B.Sc. Chemistry (2002)

S. C. S. (A) College, Puri

#### **PROFESSIONAL EXPERIENCE:**

03/11 – Continue: Lecturer in Chemistry, Berhampur University, Odisha.

01/11-02/11: Research Associate, Indian Institute of Technology Madras.

#### **Research Interest:**

Organometallic Chemistry

#### **Referred Journals:**

1. **S. Sahoo**, K. H. K. Reddy, R. S. Dhayal, S. M. Mobin, V. Ramkumar, E. D. Jemmis and S. Ghosh Chlorinated Hypoelectronic Dimetallaborane Clusters: Synthesis, Characterization and Electronic Structures of  $(\eta^5\text{-C}_5\text{Me}_5\text{W})_2\text{B}_5\text{H}_n\text{Cl}_m$  ( $n = 7, m = 2$  and  $n = 8, m = 1$ ), *Inorg. Chem.* **2009**, *48*, 6509-6516.
2. **S. Sahoo**, R. S. Dhayal, B. Varghese and S. Ghosh Unusual Open Eight-Vertex Oxamolybdaboranes: Structural Characterizations of  $(\eta^5\text{-C}_5\text{Me}_5\text{Mo})_2\text{B}_5(\mu_3\text{-OEt})\text{H}_6\text{R}$  ( $\text{R} = \text{H}$  and  $n\text{-BuO}$ ), *Organometallics* **2009**, *28*, 1586-1589.
3. R. S. Dhayal, **S. Sahoo**, V. Ramkumar and S. Ghosh Substitution at Boron in Molybdaborane Frameworks: Synthesis and Characterization of Isomeric  $(\eta^5\text{-C}_5\text{Me}_5\text{Mo})_2\text{B}_5\text{H}_n\text{X}_m$  (When  $\text{X} = \text{Cl}$ :  $n = 5, 7, 8$ ;  $m = 4, 2, 1$  and when  $\text{X} = \text{Me}$ :  $n = 6, 7$ ;  $m = 3, 2$ ), *J. Organomet. Chem.* **2009**, *694*, 237-243.

4. **S. Sahoo**, S. M. Mobin and S. Ghosh Direct Insertion of Sulfur, Selenium and Tellurium atoms into Metallaborane Cages using Chalcogen Powders, *J. Organomet. Chem.* **2010**, 695, 945-949.
5. R. S. Dhayal, **S. Sahoo**, K. H. K. Reddy, S. M. Mobin, E. D. Jemmis and S. Ghosh Vertex-Fused Metallaborane Clusters: Synthesis, Characterization and Electronic Structure of  $[(\eta^5\text{-C}_5\text{Me}_5\text{Mo})_3\text{MoB}_9\text{H}_{18}]$ , *Inorg. Chem.* **2010**, 49, 900-904.
6. K. Geetharani, S. K. Bose, **S. Sahoo** and S. Ghosh A Family of Heterometallic Cubane-Type Clusters with an  $\text{exo-Fe(CO)}_3$  Fragment Anchored to the Cubane, *Angew. Chem. Int. Ed.* **2011**, 50, 3908–3911.
7. K. Geetharani, S. K. Bose, **S. Sahoo**, B. Varghese, S. M. Mobin and S. Ghosh Cluster Expansion Reactions of Group 6 and 8 Metallaboranes Using Transition Metal Carbonyl Compounds of Groups 7-9, *Inorg. Chem.* **2011**, 50, 5824-5832.
8. R. S. Dhayal, S. J. Ponniah, **S. Sahoo**, and S. Ghosh, Synthesis and Structural Characterization of an Open Cage Dithiatungstaborane  $[(\text{C}_p\text{W})_2\text{B}_4\text{H}_4\text{S}_2]$  Cluster, *Ind. J. Chem.* **2011** (accepted for publication).
9. A. Thakur, **S. Sahoo** and S. Ghosh A Homometallic Tricapped Cubane Cluster:  $[(\text{Cp}^*\text{Mo})_4\text{B}_4\text{H}_4(\mu_4\text{-BH})_3]$  ( $\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$ ), *Inorg. Chem.* **2011** (accepted for publication).

#### **Papers presented in Conferences (National and International):**

1. **S. Sahoo**, K. H. K. Reddy, R. S. Dhayal, S. M. Mobin, V. Ramkumar, E. D. Jemmis and S. Ghosh. Chlorinated Hypoelectronic Dimetallaborane Clusters: Synthesis, Characterization and Electronic Structures of  $(\eta^5\text{-C}_5\text{Me}_5\text{W})_2\text{B}_5\text{H}_n\text{Cl}_m$  ( $n = 7, m = 2$  and  $n = 8, m = 1$ ), *Modern Trends in Inorganic Chemistry-XII*, IIT Madras, December, 2007.
2. **S. Sahoo**, R. S. Dhayal, B. Varghese and S. Ghosh. Unusual Open Eight-Vertex Oxamolybdaboranes: Structural Characterizations of  $(\eta^5\text{-C}_5\text{Me}_5\text{Mo})_2\text{B}_5(\mu_3\text{-OEt})\text{H}_6\text{R}$  ( $\text{R} = \text{H}$  and  $n\text{-BuO}$ ), *11<sup>th</sup> CRSI national Symposium in Chemistry*, Pune, February, 2009.
3. **S. Sahoo**, S. M. Mobin and S. Ghosh. Direct Insertion of Sulfur, Selenium and Tellurium atoms into Metallaborane Cages using Chalcogen Powders, *Inorganic Ring Systems- 12*, Goa, August, 2009.

**Scholarships and Awards:**

- Qualified **CSIR-UGC** Junior Research Fellowship examination and National Eligibility Test, June 2006
- Qualified Graduate Aptitude Test in Engineering (**GATE**), 2006.