

## Mr. Harekrushna Sutar, LMIE

B.E (Utkal), M.Ch.E (JU), PhD (Continuing, JU)

Chemical Engineering

Year of Joining: 2014

### Contact Addresses:

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### Research Interests:

- Thin film and surface Coating.
- Water treatment
- Tribology
- Fluidization
- Composite materials
- Polymer Technology

### Member of Professional Bodies:

- Life Member of Institution of Engineers (India), MIE (I), Membership Number: **M-147475-2**.
- Life Member of International Association of Engineers (IAENG), USA, Membership Number: 118128.
- Life Member of International Association of Computer science and information Technology, Membership Number: 80342622, (IACSIT), Singapore
- Life Member of IChE.

### Publications:

- [1] Morphology and solid particle erosion wear behavior of red mud composite coatings. **H Sutar**, SC Mishra, SK Sahoo, A Satapathy and V Kumar, *Natural Science*.
- [2] Mixing and Segregation Characteristics of Binary Granular Material in Tapered Fluidized Bed: A CFD Study; **H Sutar** and CK Das, *Engineering*.
- [3] Bio-Detoxification Treatment of Waste Water Containing Cadmium: C.K Das and **H Sutar**; *IACSIT International Journal of Engineering and Technology*.
- [4] Effect of Distributor-Orifice on Drying Kinetics in a Fluidized Bed Drier (EDODKFBD), **H Sutar** and A. Sahoo, *International Journal of Chemical Engineering and Applications*.
- [5] Computational Simulation of Unsteady State Heat Transfer in Externally Heated Magnesio Thermic Reduction Reactor: An overview (CSUHEMTRR); **H Sutar** and A.Sahoo; *International Journal of Chemical Engineering and Applications*.

- [6] Dry Sliding Wear Behavior of Aluminium Matrix Composite Using Red Mud an Industrial Waste; N Prasad, **H Sutar**, S C Mishra, S K Sahoo, S K Acharya; *International Research Journal of Pure and Applied Chemistry*.
- [7] Characterization of Plasma Sprayed Pure Red Mud Coatings: An Analysis; A. Satapathy, **H Sutar**, S.C Mishra and S.K Sahoo; *American Chemical Science Journal*.
- [8] Progress of Red Mud Utilization: An Overview, **H. Sutar**, S.C.Mishra, S.K.Sahoo, A.Chakraverty and H.Maharana, *American Chemical Science Journal*.
- [9] The effect of distributor design on hydrodynamics of conical fluidized bed dryer. **H Sutar** and V Kumar. *International Journal of Current Research*.
- [10] A Review on: Bioremediation, **H Sutar** and C K Das; *International Journal of Research in Chemistry and Environment*.
- [11] Unsteady State Heat Transfer in Externally Heated Magnesium Thermic Reduction Reactor: An overview; **H Sutar** and A Sahoo, *International Conference on Chemistry and Chemical Process*, IACSIT Press, Singapore.
- [12] Tribological Aspects of Thermally Sprayed Red Mud-Fly Ash and Red Mud-Al Coatings on Mild Steel: **H Sutar**, S C Mishra, S K Sahoo, H S Maharana and A P Chakraverty, *American Chemical Science Journal*.
- [13] Friction and Wear Behaviour of Plasma Sprayed Fly Ash Added Red Mud Coatings: **H. Sutar**, D.Roy, S. C. Mishra, A. P. Chakraverty and H. Maharana; *Physical Science International Journal*.
- [14] Synthesis and Characterisation of PVA/PVOH Based Super Porous Hydrogel; SK Barik, **H Sutar**, SC Mishra; *American Chemical Science Journal*.
- [15] Hydrodynamic Behaviour of Common Salt Water (NaCl Solution) in a Glass-beads Packed Cylindrical Fluidized Bed; **H Sutar**, K Barik, AK Bairagi and R Murmu; *American Chemical Science Journal*
- [16] Effect of fly ash and carbon reinforcement on dry sliding wear behaviour of red mud; **H Sutar**, D Roy and SC Mishra; *Indian Journal of Materials Science*.
- [17] Sliding Wear Performance Evaluation of Red Mud (RM), RM + Fly Ash (FA) and RM + FA + Al Coatings on Mild Steel; **H Sutar**, D Roy, SC Mishra, RR Murmu; *Materials Sciences and Applications*.
- [18] Effect of Red Mud (RM) Reinforcement on Physio-Chemical Characteristics of Ordinary Portland Slag Cement (OPSC) Mortar; **H Sutar**, R Murmu, D Roy, SC Mishra and A Mishra; *Advances in Materials Physics and Chemistry*
- [19] Experimental Investigation and Process Optimization of Biodiesel Production from Kusum Oil

- Using Taguchi Method; R Murmu, **H Sutar**, S Patra; *Advances in Chemical Engineering and Science*
- [20] Wear behavior of Al-Si alloy based metal matrix composite reinforced with TiB<sub>2</sub>; JK Sahoo, SK Sahoo, **H Sutar**, B Sarangi; *IOP Conference Series: Materials Science and Engineering*
- [21] Mechanical, Thermal and Crystallization Properties of Polypropylene (PP) Reinforced Composites with High Density Polyethylene (HDPE) as Matrix; **H Sutar**, PC Sahoo, PS Sahu, S Sahoo, R Murmu, S Swain, SC Mishra; *Materials Sciences and Applications*
- [22] Thermal and Dry Sliding Wear Behavior of Plasma Sprayed Red Mud-Fly Ash Coatings on Mild Steel; **H Sutar**, D Roy, SC Mishra, S Patra, R Murmu; *Tribology in Industry*
- [23] Steady State Analysis of Water Transport through Sulfonated Polyether Ether Ketone (SPEEK) Membrane for Fuel Cell Application; R Murmu, **H Sutar**; *Journal of Polymer Materials*
- [24] The Discrepancy in the Prediction of Surface Temperatures by Inverse Heat Conduction Models for Different Quenching Processes from Very High Initial Surface Temperature; A.R Patil, N.H. Bhatt, L. Das, S. Teja, S. Nayak, A. Kumar, A. Sahoo, B. Munshi, A. Behera, **H. Sutar**, S.S Mohapatra; *Inverse Problems in Science and Engineering (GIPE)*

#### **Work experience:**

- [1] Working as Assistant Professor from 8<sup>th</sup> August 2014 at IGIT Sarang.
- [2] Worked as scientific officer-c at Bhabha Atomic Research Centre, Bombay.
- [3] Worked as Technical Assistant at NIT Rourkela.

#### **Reviewer of Following Journals :**

- [1] Chemical Science International Journal.
- [2] Physical Science International Journal.
- [3] Current Journal of Applied Science and Technology.
- [4] Journal of Scientific Research and Reports.
- [5] Asian Journal of Biotechnology and Bioresource Technology.
- [6] Advances in Research.
- [7] Journal of Basic and Applied Research International.
- [8] Natural Science.
- [9] Materials Sciences and Applications.
- [10] Environmental Engineering and Management Journal.

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