

# CURRICULUM VITAE

**Dr. YASHOBANTA KUMAR MOHANTY**

**At/Po: Ghantiadi**

**Via: Baliapal**

**Dist: Balasore**

**Mobile: +919040372631, 8327765615**

**Email: [yashobanta70@gmail.com](mailto:yashobanta70@gmail.com)**



---

## EDUCATIONAL QUALIFICATIONS

- **Ph.D.** Chemical Engineering—July-2008  
**National Institute of Technology, Rourkela, Orissa**  
(Thesis title: Dynamics of a Gas-solid Fluidized Bed Using Secondary Fluidizing Medium)
- **M.E.** Chemical Engineering—1999  
(Specialization: Coal Chemicals & Fertilizers)  
**National Institute of Technology, Rourkela, Orissa**
- **A.M.I.E.** Chemical Engineering—Summer - 1996  
**The Institution of Engineer's (India)**
- **B.Sc.** Physics, Chemistry & Mathematics –1990  
**Fakir Mohan College, Balasore, Orissa**  
(Utakl University)

## WORK EXPERIENCE (Teaching: 20years; Industrial: 13 months)

- **02.01.14 to till date** **Principal**  
**SRINIX College of Engineering, Balasore**
- **18.03.09 to 31.12.13** **Vice-Principal**  
Gandhi Institute of Engineering & Technology  
Gunupur-765 022; Dist: Rayagada, Orissa
- **01.08.08 to 31.12.13** **Professor & Head**  
Gandhi Institute of Engineering & Technology  
Gunupur-765 022; Dist: Rayagada, Orissa
- **16.06.03 to 31.7.08** **Assistant Professor & Head**  
Chemical Engineering Department  
Gandhi Institute of Engineering & Technology  
Gunupur-765 022; Dist: Rayagada, Orissa
- **16.06.99 to 15.06.03** **Lecturer**  
Chemical Engineering Department  
Gandhi Institute of Engineering & Technology  
Gunupur-765 022; Dist: Rayagada, Orissa
- **02.01.99—15.06.99** **Lecturer**  
Chemical Engineering Department  
Indira Gandhi Institute of Technology  
Sarang; Dist: Dhenkanal, Orissa
- **15.01.93—31.03.94** **Trainee Engineer**  
Chemech Engineers Pvt Ltd  
Ambattur; Chennai-58

## **PUBLICATIONS:**

- **Journal Publications**

**International: 25 (Detail attached as Annexure-1)**

**National: 05**

- **Book (01)**

- ❖ Book titled “Theory and Problems in Chemical Reaction Engineering” with Mr. S K Behera (Co-author), M/s Khanna Publishers, New Delhi, 2005

- **Patent: 01- patent- 2023**

## **RESEARCH PROJECT:**

Hydrodynamic Studies of a Multistage Fluidized Bed: Funded by AICTE, New Delhi (2008-2010)

Project Cost: 09 Lakh

## **Reviewer of International Journals:**

- Chemical Engineering Journal (Elsevier)
- Chemical Engineering Science (Elsevier)
- Chemical Product and Process Modeling

## **Title of Ph D Thesis**

“Dynamics of a Gas – solid fluidized bed using Secondary Fluidizing Medium”

Guide: Prof K C Biswal and

Co-guide: Prof B P Mohanty

**Award Received:** Indian Society for Technical Education (ISTE) **Best Teacher Award 2013** for the Odisha Section

## **Area of Specializations**

Fluidization Engineering

Chemical Reaction engineering

Mass Transfer Operations.

**Number of Scholars guiding for Ph D (Supervisor): 04-awarded  
01-continuing**

## **PROFESSIONAL MEMBERSHIP**

- Member, The Institution of Engineers (India)— M-137688-2
- Life Member, Indian Institute of Chemical Engineers— LM – 29788
- Life Member, Indian Society for Technical Education — LM 66882

## **FABRICATION WORK**

- 1—2 Shell & Tube Heat Exchanger in the Chemical Engineering Department at GIET, Gunupur for students demonstration purpose

## **SHORT-TERM, REFRESHER COURSES, ETC. ATTENDED (7)**

- Taken an SERC School—CEP course on “Modeling & Optimization of Chemical Reactors” conducted between 02 and 07 May 2005 at IIT Bombay
- Taken an AICTE-&ISTE- sponsored short-term training programme on “ Circulating Fluidized Bed Technology & Its Prospective” conducted between 03 and 15 January 2005 at Bengal Engineering & Science University, Howrah
- Taken an Internal Auditor Training Course on ISO 9001: 2000 IQE conducted between 09 and 10 September 2002 at GIET, Gunupur (Course given by: Institute of Quality and Environment, Bhubaneswar)
- AICTE sponsored short term course on “Failure analysis of Engineering Materials” conducted between 09 and 14 March 2009 at GIET, Gunupur, Rayagada, Orissa.
- MHRD/AICTE Summer School (Staff Development Programme) on “Nanotechnology: Processing & Applications” conducted between 14 and 19 September 2009 at Bhubaneswar organized by IIT, Kharagpur.
- AICTE sponsored short term course on “Solid and Hazardous Waste Management” conducted between 12-19 October, 2010 at IIT Kharagpur.
- AICTE Sponsored FDP on Computer Aided Process Engineering & Computational Fluid Dynamics” conducted between 6-18 may 2013, at JITM, Paralakhemundi.

## **PAPERS PRESENTED/ATTENDED AT SEMINARS/CONFERENCEES : 19**

- Presented a paper entitled “ Utilization of Mill Rejects of Power Plants through Circulating Fluidized Bed Combustion—A Green Power Technology” at the **International Conference** on Impact of Industrialization on Environmental Pollution— Its Control & Abatement conducted between 13 and 15 October 2006 at GIET, Gunupur
- Presented a paper entitled “ Circulating Fluidized Bed Combustion—A Green Power Technology” at the National Seminar on Chemical Products from Agriculture and Forest Residues” at Jagannath Institute for Technology and Management, Paralakhemundi on 04 Sept 2005
- Presented a paper entitled “ Effect of Secondary Air on Fluctuation and Expansion in a Gas-Solid Fluidized Bed” at **Chemcon - 2007** organized by the Indian Institute of Chemical Engineers ( Code no: 1035; p10 in the proceedings ) at Kolkota
- Effect of Column Diameter on Dynamics of Gas-solid Fluidized Bed, **Chemcon- 2008** (Orall presentation). Ref: MS # tp 62/2008
- Eco-friendly waterborne Inorganic Zinc Rich Primer for Cathodic Protection of Steel Surfaces, 6<sup>th</sup> **International Symposium** on Surface Protective Coatings SSPC 2009,Grand Sala, Cidade de Goa, Feb. 25, 2009

- Design of Pultruded Fibre Glass Reinforced Plastics ( FRP) Insulators for Metro Railways, **International Conference “ IEEMA”** at Bangalore, Dec 2008, 1-6
- Quality assurance mechanism at institute level for ensuring continuous improvement of technical education—an overview, National Seminar at GIET, Gunupur, Nov. 13-14, 2009
- Recent development in core branches of engineering— A special focus on environmental pollution, National Seminar at GIIT, Berhampur, October 08-09, 2010, pp 30-35.
- Removal of Boron from waste water by using a novel adsorbent – both experimental and statistical studies, UGC National Seminar on new frontiers of chemical analysis – Part II, Gunupur College, Gunupur, 24-25 March, 2011,
- Optimization of Secondary Fluidized Column for the Improvement of Quality of Fluidization By RSM Based Central Composite Design, **Chemcon- 2011**, Ref: MS # tp 62/2011
- “Hydrodynamics of Three-phase Fluidization of a Homogeneous Ternary Mixture of Irregular Particles- Both Dimensional and Statistical Analysis”, IChE CHEMCON 2012, Paper ID: 338
- “Effective teaching strategies for professional Education”, ISTE 16<sup>th</sup> Annual convention at Vikash College of Engineering for Women, Bargarh, 10-11 November 2013.
- “Effect of Column Diameter on Hydrodynamics of Three –phase Fluidization of a Homogeneous Ternary Mixture” **International Conference CFB – 11** to be held in 2014 in CHINA.
- “Solid Waste Management Through Geopolymer Technology For the Development of Value Added Product” 4<sup>th</sup> International Conference on Solid Waste Management & Exhibition (Icon SWM 2014), (code 30-42) at Hyderabad.
- Molecular Interaction Studies on Pentan-1-ol (1)+ Nitrobenzene (2) at temperatures of 303.15, 308.15 and 315.15 K, Chemical Engineering Congress (CHEMCON), Jalandhar, 2012.
- Ultrasonic Studies on binary mixture of Propiophenone + Ethyl Acetate at 303.15 – 313.15 K, Chemical Engineering Congress (CHEMCON), Chennai, December, 2015.
- Hydrodynamics of Gas- liquid-solid Fluidization of Homogeneous Ternary Mixture in a Conical Conduit. International Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2015).
- Prediction of bed pressure drop in a three phase conical Fluidized Bed With Homogeneous Ternary Mixture of Irregular Particles. 31<sup>st</sup> National Convention of Chemical Engineers & National Seminar on Technological Advancement in Chemical Engineering 7 Mineral Processing, The Institution of Engineers, India, Bhubaneswar, 12-13 September 2015.
- Effect of Tapered Angle on the Hydrodynamics of Three-phase Conical Fluidized Bed With Homogeneous Ternary Mixture of regular Particles using Response Surface Methodology, International Conference on Recent Innovation in Engineering & Technology (ICRIET-2K16).

## **ORGANIZATIONAL AND ADMINISTRATIVE EXPERIENCE**

- **Convener, International Conference** on Impact of Industrialization on Environmental Pollution—Its Control & Abatement conducted between 13 and 15 October 2006 at GIET, Gunupur (Funded by AICTE, New Delhi)
- **Convener, Technical Committee for the National Seminar** on “ Utilization of Forest and Mineral Resources for Economic Growth” conducted on 20<sup>th</sup> October 2003 at GIET, Gunupur
- **Convener, National seminar** on “Challenges to Quality Technical Education: the Role of IQAC”, Conducted between 13- 14 November 2009 at GIET, Gunupur (Funded by NAAC)
- **Convener, National Seminar** on Recent Advances in Chemical Engineering – 2010 conducted between 30 and 31 January 2010 at GIET, Gunupur
- **Convener, Student Level National Seminar** on Recent Advances in Chemical Engineering – 2011 conducted on 1<sup>st</sup> December 2011 at GIET, Gunupur (Funded by ISTE, New Delhi)
- **Convener, National seminar** on “Solid Waste Management: Issues & Challenges” conducted on 24-25 August 2013 at GIET, Gunupur (Funded by AICTE, New Delhi)
- **Documentation work:** Implementation of ISO 9001:2000, accreditation by NBA (AICTE) and NAAC (UGC) at GIET, Gunupur.
- **Sole responsibility for preparation and submission of proposals to the state Government and UGC and MHRD respectively for obtaining state university and deemed-to-be university status**
- **Convener, Disciplinary Committee,** GIET, Gunupur
- **Secretary, Faculty Club,** GIET, Gunupur

## **PERSONAL PROFILE**

- Father’s Name            Mr. Debendra Nath Mohanty
- Date of Birth             01.02.1970
- Sex                         Male
- Marital Status           Married with two sons
- Nationality               Indian
- Passport No              F7874037
- Religion                   Hinduism
- Languages Known       Oriya, English, Hindi and Tamil
- Strengths                 Sincerity, hardworking and punctuality
- Hobbies                    Reading and writing books & watching News

Dr Yashobanta Kumar Mohanty