

## Johny Joseph

### Chief Scientist

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## Bibliography

### About

Johny Joseph born on 08th May 1959. His SKILLS

- Technoeconomic assessment of process, product and plant design
- Optimization through pilot plant trials
- Scale-up
- Design & development of new machinery/equipment
- Commissioning of pilot plants and commercial plants
- Project reports giving material balance, energy balance, water audit, P&I, and PFD
- Trouble shooting in process industries
- Training operators & students

### Education

- B.Sc (Chemistry, Physics, Mathematics) – Kerala University ; 1979
- B.E (Chemical Engineering) – Bangalore University; 1984

### Employment

- M/s Nivedita Chemicals, Mumbai ; 1985 to 1986 – Plant Engineer
- M/s Phosphorous & Chemicals Travencore Ltd, Kerala; 1986 to 1987 – Plant Engineer
- M/s Industrial Instrumentation & Controls, Kerala; 1987 – Service Engineer
- CSIR-CFTRI; 1987 to 2001 – Scientist
- CSIR-IICT; 2001 onwards - Scientist

## Research Interests

### Present Research

Solid waste management, Wastewater Treatment, Renewable Energy, Water Audit in industries, Material Balance studies, Waste stream identification in industries.

### Past Research

Past major topics of interests were process engineering and plant design in the field of food technology.

### Projects Involved

Currently working in three major projects. They are listed below:

- 1). High rate biomethanation technology for ETP sludge treatment in chemical and allied industries..
- 2). High rate biomethanation technology for organic solid waste treatment & concomitant energy generation.
- 3). High rate biomethanation technology for toilet waste treatment & energy generation.
- 4). Modular high rate bio-digester for garbage treatment .

## Research Group Members

- Dr. Y.V.Swamy; Chief Scientist & Head, BEES Division, CSIR-IICT
- Dr. R.S.Prakasam, Senior Principal Scientist, BEES, Division, CSIR-IICT

- Dr. N.V. Satyanarayana, Chief Scientist & Head, BMA Division, CSIR-IICT
- Dr. C.B.Lakshmi, Chief Scientist & Head, RMA Division, CSIR-IICT
- Dr. Bhaskar Rajan, Senior Technical Officer, Horticulture Division, CSIR-IICT

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## Publications

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- Multistage high rate biomethanation of poultry litter with self mixing anaerobic digester. Bio-resource Technology, 102, 729-735.
- Biomethanation of poultry litter leachate in UASB reactor coupled with ammonia stripper for enhancement of overall performance. Bio-resource Technology, 12/2008; 99(18); 8679-84.
- Microbial conversion of sulphur dioxide in flue gases to sulphide using bulk drug industry wastewater as organic source by mixed cultures of sulphate reducing bacteria. Journal of hazardous materials, 09/2007; 147(3); 718-25
- pH regulation of alkaline wastewater with carbon dioxide; a case study of treatment of brewery wastewater in UASB reactor coupled with absorber. Bio-resource Technology, 09/2007; 98(11); 213-6.

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## Patents

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- Multistage cascaded high rate bio-digester for organic solid waste treatment and rapid biogas production. (Patent documents submitted in June 2013)
- Self Mixed Anaerobic Digester (SMAD) for organic solid waste treatment. (Filed with ref.no: 1935/DEL/2008)

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## Lectures

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- Invited Lecture for IFCON-2008 ; High rate biomethanation technology for solid waste management in food processing industries.
- Invited lecture for workshops organized at Administrative Training Institutes of Mysore, Hyderabad, Gauhati, Karwar and Bhopal by Centre for Innovation in Public Systems (CIPS) under Administrative staff college of India; (Topic: Modular high rate bio-digester for safe disposal of garbage)
- Invited lecture at Kerala Pollution Control Board in Trivandrum, Kerala on High rate biomethanation technology for solid waste management.
- Invited Lecture at Pollution Control Board of Andhra Pradesh on High rate biomethanation technology for solid waste management

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## Awards

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- CSIR Technology memento in 2000 for "Biotechnology of Spirulina Platensis"
- Best technology award by CSIR-IICT in 2007 for Application of biotechnology for eco-friendly treatment of poultry waste by Multistage high rate biomethanation technology"