

Sunil S. Waje

Ph.D. (Tech)

Chemical Engineering Department,

Institute of Chemical Technology,

Mumbai- 400 019, India.

E-mail: bnt7@udct.org



Scholastic Profile

- Ph. D. (Tech.) Chem. Engg.** : September 2003 -
Research Topic : 'Selection Criteria and Design of Industrial Drying Systems'
- M. Chem. Engg.** : 2001-2003, UICT, Mumbai, India.
Research Topic : 'Design of Multiphase Reactors'
Class : First Class with Distinction.
- B. E. (Chemical)** : 1997-2001, Pune University, Pune, India.
Project : 'Design of a Plant for 1 TPD Ethanol Amine'
Class : First Class with Distinction
Gate Percentile : 87.67 (AIR: 291)

Publications (Journals/Proceedings)

1. **Waje, S.S.**, Meshram, M.W., Chaudhary, V., Pandey, R., Mahanawar, P.A. and Thorat, B.N. "Drying and shrinkage of polymer gel". *Brazilian Journal of Chemical Engineering* **2005**, 23 (2): 209-217.
2. **Waje S.S**, Thorat, B. N. and Mujumdar, A.S. "An Experimental Study of the Performance of a Screw Conveyor Dryer". *Drying Technology* **2006**, 24 (3), 293-301.
3. **Waje S.S**, Thorat, B. N. and Mujumdar, A.S. "Screw Conveyor Dryer: Process and Equipment Design". *Drying Technology* **2006**, Accepted for publication.
4. Shinde, S., **Waje, S.S.**, Visawale, G., Panchal, H. and Thorat, B. N. "Granulation and Drying of Microfertilizers: A case study". In *Topics in Heat and Mass Transfer*. Chen et al., (Eds.), **2004**, 389-395. (Book)
5. **Waje, S.S.**, Meshram, M.W., Chaudhary, V., Pandey, R., Mahanawar, P.A. and Thorat, B.N. 2004. "Drying Characteristics of hydrophilic polymer gel: Copolymer of acrylic acid and acrylamide". In *Proceedings of 14th International Drying Symposium (IDS- 2004)*, Brazil, **2004**, Vol. B: 1182-1189.

Conference Contributions

- ISCRE 18** (18th International Symposium on Chemical Reaction Engineering), Chicago (USA), June 2004.
1. Engineering Aspects of Manufacturing Tri-n-butyl Phosphate Esters

IDS 2004 (14th International Drying Symposium), Brazil, August 2004.

1. Drying Characteristics of hydrophilic polymer gel: Co-polymer of acrylic acid and acrylamide

IWSID (International Workshop and Symposium on Industrial Drying), Mumbai, December 2004.

1. Drying behavior of water soluble polymers
2. Drying behavior and compositional analysis of Aloe vera
3. Drying kinetics and effect of various pretreatments in Raisin manufacturing
4. Modeling of Heat-pump dryer

NDC (Nordic Drying Conference), Sweden, June 2005.

1. Modeling and Experimental study of Heat pump drying of shrimps

ADC (Asia-Pacific Drying Conference), Kolkata, December 2005.

1. Rapid design of Screw Conveyor Dryer
2. Low temperature heat pump drying of food materials

IDS 2006 (15th International Drying Symposium), Budapest (Hungary), August 2006.

1. Screw Conveyor Dryer: Process and Equipment Design
2. Infrared Drying of Preformed Pigment
3. Recent Advances in Fluid Bed Drying

PRES (9th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction), Prague (Czech Republic), August 2006

1. Design of a Cost Effective Screw Conveyor Dryer