

Dr. Ashish N. Sawarkar

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Ph. D. : UDCT, Mumbai under the guidance of Professor J. B. Joshi
M. Tech. : LIT, Nagpur
B. Tech. : LIT, Nagpur

Worked at *Indian Institute of Petroleum (IIP)*, Dehradun, a constituent laboratory of Council of Scientific and Industrial Research (CSIR) for about a year during Ph.D. programme.

Research Experience (post doctoral):

As a **post doctoral fellow** at *Institute of Chemical Technology (ICT)* (formerly UDCT), Mumbai under the guidance of Professor J.B. Joshi (**~1 Year**)

Research Experience in Industry (post doctoral):

As a **scientist** at *United Phosphorus Limited (UPL)* Research and Development centre, Mumbai (**1 Year**)

Teaching Experience:

- At *Institute of Chemical Technology (ICT)* (formerly UDCT), Mumbai (**6 months**)
- At *National Institute of Technology (NIT)*, Raipur (**Since July, 2009**)

Research Interests:

Petroleum Residue Upgradation, Gasification, Gas-to-Liquid (GTL) Technology, Acoustic and Hydrodynamic Cavitation

Fellowship:

- Recipient of **University Grants Commission (UGC), Government of India**, fellowship towards doctoral research
- Recipient of **United Phosphorus Limited (UPL), Mumbai** fellowship towards post doctoral research

Awards/honors/significant achievements:

- Stood 1st in SSC examination at **Lokvidyalaya, Wardha**.
- Secured highest number of marks in Marathi, Hindi, and English in SSC examination at **Lokvidyalaya, Wardha**.
- Passed Hindi Prarambhik Examination conducted by **Rashtrabhasha Prachar Samiti, Wardha** in First division with distinction.
- One of the *published papers* has featured in the list of **Top 20 most accessed articles** published during July 2008 to June 2009 in *Industrial and Engineering Chemistry Research* (I&ECR), an **American Chemical Society (ACS)** publication.
- One of the *published papers* in *The Canadian Journal of Chemical Engineering* (CJChE), a **Wiley InterScience** publication has featured in **The Canadian Journal of Chemical Engineering Virtual Issue** (This virtual issue of *The Canadian Journal of Chemical*

Engineering collects several of **top articles published** recently, as well as some **highly cited** older papers). (The only paper to have featured in both the *Exploring the Diversity The Canadian Journal of Chemical Engineering August 2009* and *The Canadian Journal of Chemical Engineering: Process Control April 2009*)

- Served as **one of the Editors** of the *Proceedings of National Symposium on Reaction Engineering (NSRE-2010)* organized by the Department of Chemical Engineering, NIT Raipur.

Number of Publications:

International Journal	: 4
International Conference	: 2
National Conference	: 4

Details of Publication in International Journals:

- Sawarkar, A. N., Pandit, A. B., Samant, S. D. and Joshi, J. B. "Use of ultrasound in petroleum residue upgradation." *The Canadian Journal of Chemical Engineering*, 87, **2009**, 329-342.
- Joshi, J. B., Pandit, A. B., Kataria, K. L., Kulkarni, R. P., Sawarkar, A. N., Tandon, D., Yad Ram and Kumar M. M. "Petroleum residue upgradation via visbreaking: A review." *Industrial and Engineering Chemistry Research*, 47, **2008**, 8960-8988.
- Sawarkar, A. N., Pandit, A. B. and Joshi, J. B. "Studies in coking of Arabian mix vacuum residue." *Trans IChemE, Part A, Chemical Engineering Research and Design*, 85 (A4), **2007**, 481-491.
- Sawarkar, A. N., Pandit, A. B., Samant, S. D. and Joshi, J. B. "Petroleum residue upgrading via delayed coking: A review." *The Canadian Journal of Chemical Engineering*, 85, **2007**, 1-24.

Details of Publication in International Conference:

- Sawarkar, A. N., Kataria, K. L., Kulkarni, R. P., Pandit, A. B., Joshi, J. B., Yadram, Tandon, D. and Kumar, M. M. "Kinetic behavior of Arab mix short residue during coking reactions." *Proc. of PETROTECH-2005*, 6th International Petroleum Conference and Exhibition, January 15-19, **2005**, New Delhi, India.
- S. Rugma, S. Gunjan, and Sawarkar, A. N. "Power generation from bagasse- A step towards sustainable development." Accepted for publication in the proceedings of *International Conference on Advances in Renewable Energy*, MANIT Bhopal, India.

Details of Publication in National Conference:

- S. Rugma, S. Gunjan, Upadhyay Mukesh, Chaudhari, P. K., and Sawarkar, A. N. "Petroleum coke gasification: An emerging refinery operation." *Proc. of National Symposium on Reaction Engineering*, January 22-23, **2010**, NIT Raipur, India, pp. 303-316.
- Upadhyay Mukesh, Singhanian Lalit, Walia Sanjeet, and Sawarkar, A. N. "CDM opportunity in chemical process plant (A case study of Rashtriya Chemicals and Fertilizers Limited)" *Proc. of National Symposium on Reaction Engineering*, January 22-23, **2010**, NIT Raipur, India, pp. 229-251.
- Chaudhari, P. K., Verma Vibha, Gupta Vandana, Upadhyay Mukesh, and Sawarkar, A. N. "Catalytic thermal treatment of biodigester effluent of an alcohol distillery." *Proc. of*

National Symposium on Reaction Engineering, January 22-23, **2010**, NIT Raipur, India, pp. 221-228.

- S. Gunjan, S. Rugma, and Sawarkar, A. N. “Algae- The sustainable biofuel of the future.” Accepted for publication in the proceedings of *National Conference on Renewable Energy*, Tezpur University, Assam, India.