



Brief Biodata of Dr. Arun S. Mujumdar

Professor of Mechanical Engineering, NUS, Singapore

Adjunct Professor, Departments of Chemical Engineering and Agricultural Engineering & Biosystems, McGill University, Montreal, Canada

- Education: B.Chem.Eng. (Distinction, UDCT, University of Bombay), M.Eng. ([McGill University](#)), Ph.D. ([McGill University](#))
- Elected Fellow of [American Society of Mechanical Engineers](#) and [Chemical Institute of Canada](#) (1988)
- Member of [AIChE](#), CPPA, Sigma Xi, etc.
- Major awards and honours: Innovation in Drying Award, IDS'86, MIT (1986); Joseph Janus Medal of Czech Academy of Sciences for Outstanding Achievements in Chemical Engineering (1990); Copernicus Medal of the Polish Academy of Sciences for Contributions to Chemical Engineering (1996); The Procter & Gamble Award for Excellence in Drying Research (1998); The Jules Stachiewicz Heat Transfer Medal for Outstanding Achievements in Heat Transfer in Canada (1998); Medal for Distinguished Contributions to Drying Technology Internationally, 1st Asian-Australian Drying Conference, Bali (1999); Distinguished Alumnus Award from UDCT, University of Bombay (1999).
- Listed in several Who's Who compilations. Named Distinguished Scientists of the 20th Century, International Man of the Year by International Biographical Institute, Cambridge (1999). Listed in 1000 World Leaders of Influence by the American Biographical Institute, Raleigh, USA (2000).
- Authored books: *Advanced Drying Technologies*, T. Kudra and A.S. Mujumdar, Marcel Dekker, NY 2002; *Mujumdar's Practical Guide to Industrial Drying*, Exergex, Canada, 2000.
- Editor or Co-Editor of 50 hardcover books since 1978. Ten volumes of *Advances in Transport Processes* (Wiley, Elsevier); 5 volumes of *Advances in Drying* (Hemisphere/Taylor & Francis); 3 volumes of *Drying of Solids* (Wiley/Sarita/Oxford); 6 volumes in Elsevier Series on Transport Processes in Engineering as Advisory Editor; *Proceedings of the International Drying Symposia* since its inception in 1978; Editor, *Developments in Drying*, Vol. 1 and 2 (Bangkok, Thailand, 2000).
- Editor: *Handbook of Industrial Drying*, Vol. 1 and 2 (1425 pages, oversize, Marcel Dekker, 2nd Enhanced Edition, 1995); *Mathematical Modeling and Numerical Techniques in Drying Technology* (with I. Turner, Marcel Dekker, 1997); *Handbook of Post Harvest Technology* (Marcel Dekker, in progress).
- Editor (1988-) *Drying Technology-An International Journal* (Marcel Dekker, NY, archival journal, peer-reviewed, 10 issues, 2600 pages per annum).
- Advisory Editor, *Modern Drying Technology*, *Handbook of Industrial Drying in Chinese*, 1250 pages (1999).
- Member, Editorial Board of 5 international journals.
- Presented seminars, lectures, short courses in industrial drying in 36 countries in 4 continents
- Presented over 35 plenary and keynote lectures at international conferences.
- Visiting Professor at numerous universities including [Nagoya University](#), [Keio University](#), Japan; University of Sao Paulo, Brazil; National Chemical Laboratory, Pune, India; National University of Singapore, Singapore
- Awarded prestigious Senior Fellowship by Japan Society for Promotion of Science (1988 and 1996)
- Consulted for over 60 companies in 4 countries
- Published more than 300 research papers, presented over 200 conference papers.
- Supervised 30+ Ph.D., 30+ Masters, 100+ Undergraduates and 30 Post-Doctoral Researchers at McGill University as well as at overseas universities in China, Finland, Japan, Hong Kong, Singapore, Thailand, etc.
- External reviewer for research proposals for NSF, NSERC, FCAR, Small Business Bureau of USA, EPRI, Ontario Hydro, Research Councils of Australia, Finland, Norway, Hungary, Israel, etc.
- Founder/Program Chair: Biennial [International Drying Symposium Series \(IDS\)](#) since 1978. Also Inter-American Drying Conference (Brazil, 1997; Mexico, 2001), Asia-Australia Drying Conference (Bali, 1999, Penang, Malaysia, 2001), Nordic Conference on Dewatering, June, 2001).
- Member of Organizing/Scientific/Advisory Panels for numerous major international conferences.
- Research Areas: Drying of Paper, Steam Drying, Computational Fluid Dynamics, Electro-Osmosis Dehydration, Time-Dependent Melting/Freezing Phenomena, Novel Spout/Fluidized Bed Drying, Transport Processes of Impinging and Opposing Jets, Chemical Heat Pumps for Industrial Drying. Focus on innovative ideas. Approach: mission-oriented but based on fundamentals. New: Explosive boiling actuated micro-devices.
- Teaching Areas: Fluid Mechanics, Heat and Mass Transfer, Drying, Transport Phenomena, Computational Methods, Fluidization, Unit Operations, Air Pollution Control.