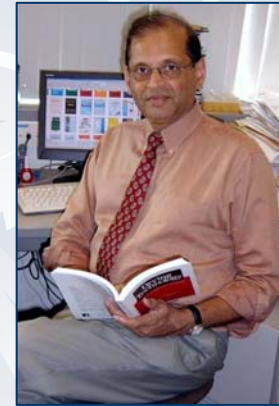




Introduction

Arun S. Mujumdar

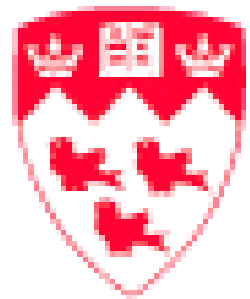


Professor

**Department of Mechanical Engineering
National University of Singapore, Singapore**

Adjunct Professor

**Department of Chemical Engineering
McGill University, Canada**



Education

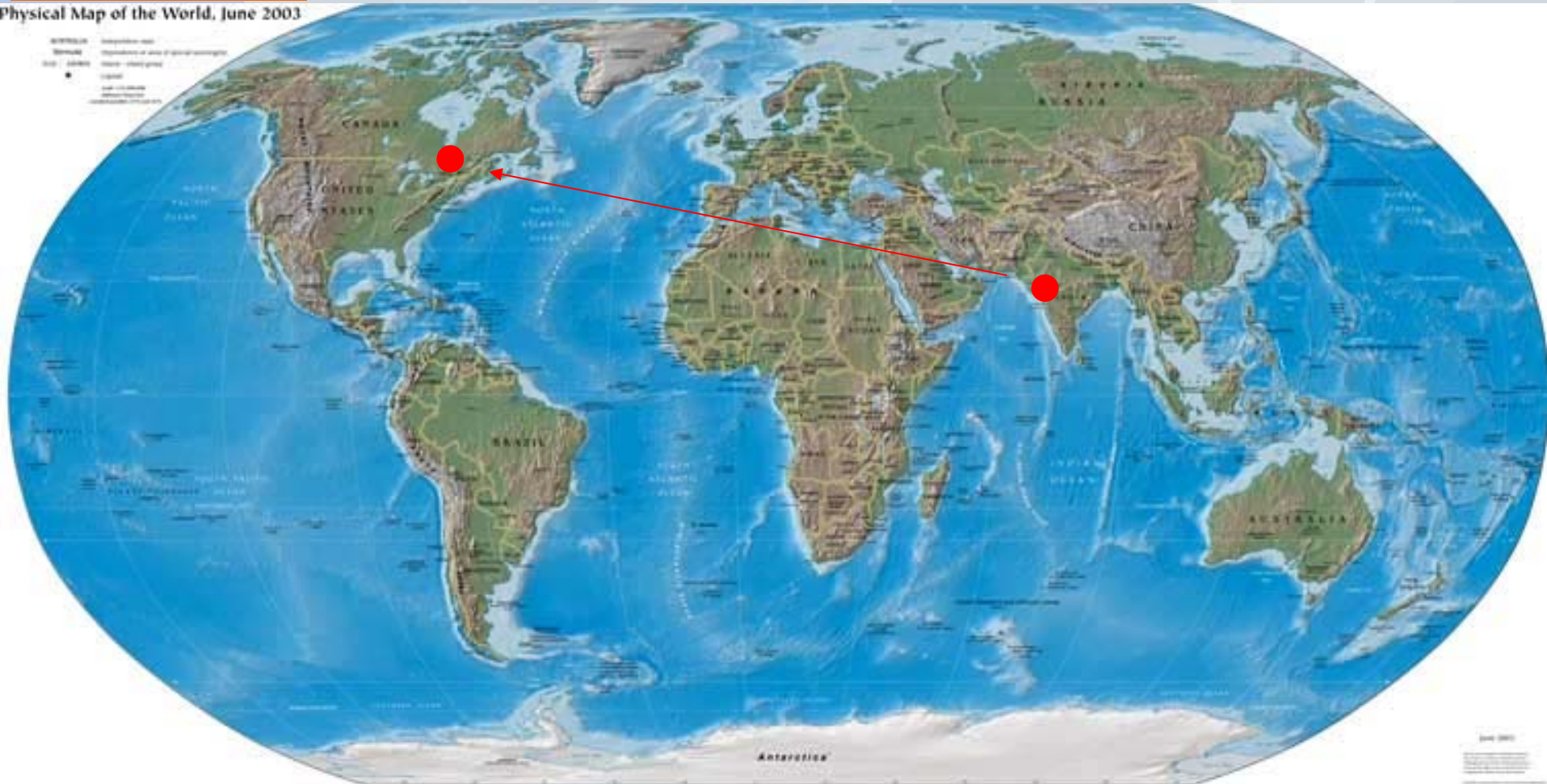
Physical Map of the World, June 2003



- B.Chem.Eng. (Distinction), UDCT, University of Mumbai, India

Education

Physical Map of the World, June 2003



- M.Eng., Chemical Engineering, McGill University, Montreal, Canada, Turbulent flow in packed beds

Physical Map of the World, June 2003



- Ph.D., Chemical Engineering, McGill University, Montreal, Canada, Free stream turbulence effects on heat transfer from cylinders

Education – Industrial Experience

Physical Map of the World, June 2003



- Research Engineer, Aerodynamics, Carrier Research Centre, Syracuse, New York, 1969-71

Education – Industrial Experience

Physical Map of the World, June 2003



- Post doctorate / Research Associate, Pulp & Paper Research Institute of Canada, Pointe Claire, Quebec, 1972-75

Education – Industrial Experience

Physical Map of the World, June 2003



- Assistant Professor, Chemical Engineering, McGill University, Quebec, Canada, 1975-1978

Education – Industrial Experience

Physical Map of the World, June 2003



- Associate Professor, Chemical Engineering, McGill University, Quebec, Canada, 1978-1986

Education – Industrial Experience

Physical Map of the World, June 2003



- Professor, Chemical Engineering, McGill University, Quebec, Canada, 1978-1986

Education – Industrial Experience

Physical Map of the World, June 2003



- President and Principal Consultant, Exergex Corporation, Brossard, Canada, 1989-2000

Education – Industrial Experience

Physical Map of the World, June 2003



- Professor, Mechanical Engineering, National University of Singapore, 2000-present

Industrial Experience

- Consultant to over 60 companies in four continents (drying, heat mass transfer, R&D)

Honorary Professor

- Tianjin University of Science and Technology, 1988
- East China University of Science and Technology, 1992
- Zhejiang Silk Engineering Institute, Hangzhou, 1992
- Zhejiang University of Technology, 1994
- Jiangsu University of Science and Technology, 1996
- Kasetsart University, Bangkok, 1999
- Southern Yangtze University, Wuxi, 2003





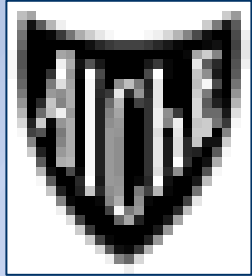
Elected Fellow

- American Society of Mechanical Engineers, United States
- Chemical Institute of Canada, Canada, 1988
- Indian Institute of Chemical Engineers, India, 1999
- Institution of Engineers Singapore, Singapore, 2004



Membership

- American Institute of Chemical Engineers, AIChE
- Canadian Pulp and Paper Association, CPPA
- The Scientific Research Society, Sigma Xi



Teaching Interests

- Transport phenomena
- Fluid mechanics
- Drying
- Computational methods
- Thermodynamics
- Mass transfer
- Fluidization
- Etc.

Research Areas

- Basic and applied transport phenomena involving single and two-phase systems
- Drying and dewatering
- Microscale heat transfer, explosive boiling, heat transfer to nanofluids
- Modeling spray dryers, pulse combustion and PC dryers

Research Areas

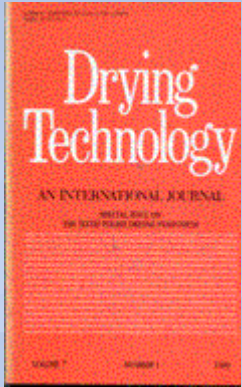
Specific topics

- Impinging and opposing jets
- Cyclic melting and freezing
- Novel spray drying
- Transport phenomena in fuel cells
- PCM based microelectronic cooling
- Heat pump-assisted drying
- Pulsed pressure/vacuum drying
- Low pressure superheated steam drying
- Microwave assisted drying

Professional Recognition / Honors

- Medals from Czech and Polish Academies of Sciences
- Procter & Gamble Award for Excellence in Drying Research
- Hemisphere Award for Innovation in Drying
- Etc.

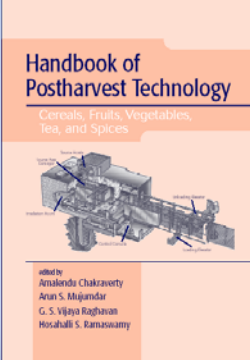
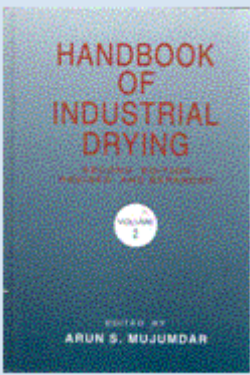
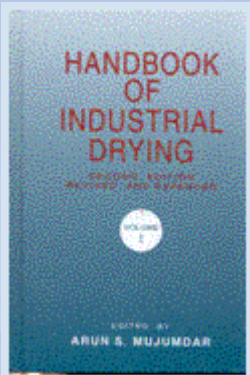
Professional Services – Journals and Books



- Editor-in-Chief, Drying Technology, 1988 –
- Editor and Principal Contributor, Handbook of Industrial Drying, Marcel Dekker, (now in 3rd Edition)
- Editor, Advances in Drying (Hemisphere), 5 volumes
- Editor, Advances in Transport Processes, (Elsevier), 11 volumes
- Editor, Drying of Solids, (Science Publishers), 3 volumes
- Editor/Co-editor, about 40 volumes of IDS, and other conference proceedings
- Continued....

Professional Services – Journals and Books

- Co-author, *Advanced Drying Technologies*, Dekker, NY, 2002
- Author/Editor, *Guide to Industrial Drying*, December 2004
- Co-Editor, *Handbook of Postharvest Technologies*, Marcel Dekker, 2003
- Co-Editor, *Handbook of Mathematical Modeling in Food Processing*, Dekker, 2006.
- Etc., etc.



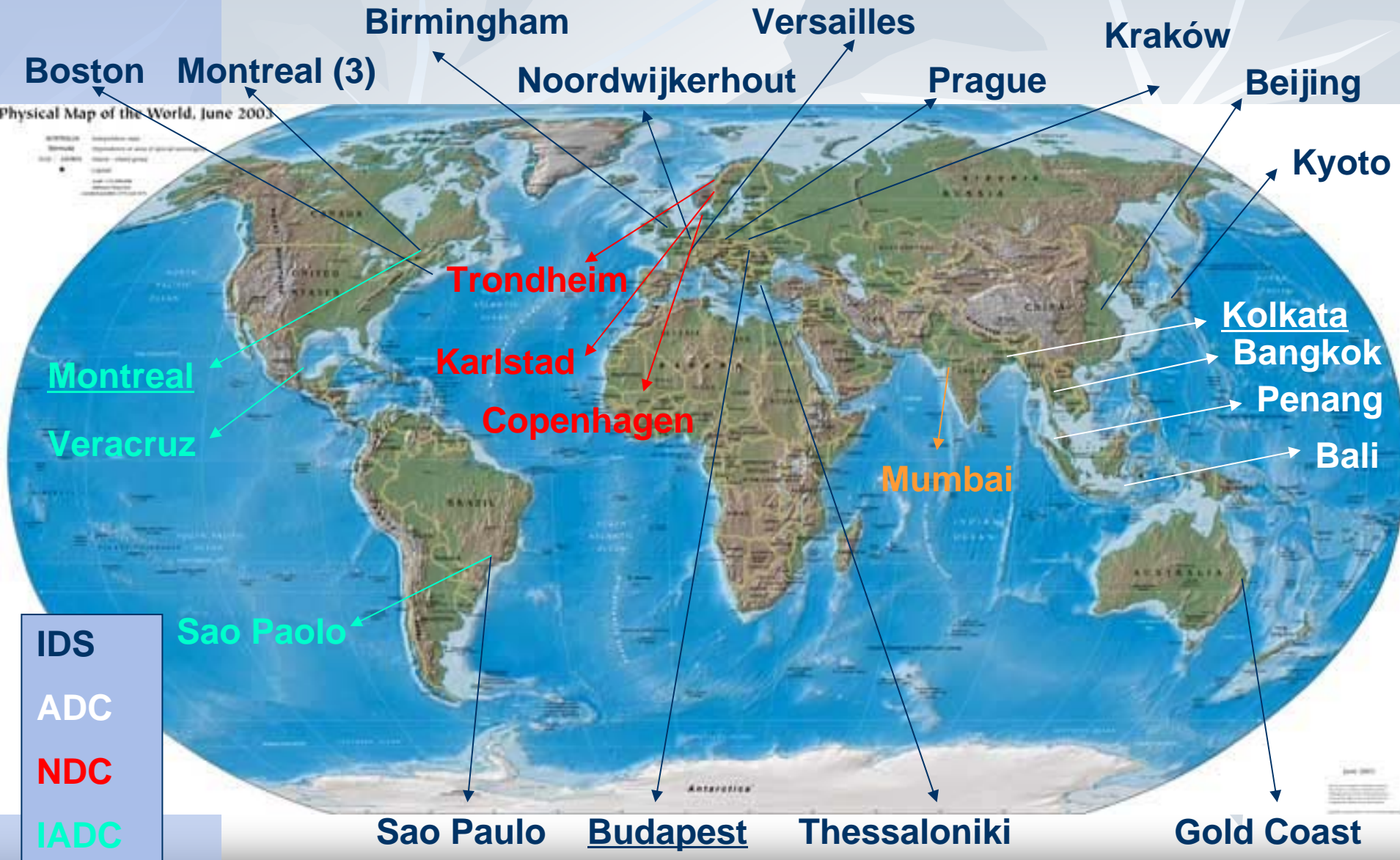
The background of the slide features a stylized, light blue and white illustration of several large, overlapping leaves. The leaves have prominent veins and are arranged in a way that creates a sense of depth and texture. The overall color palette is soft and monochromatic, with various shades of light blue and white.

- **Insert Your Book Cover Poster Here**

Conferences

- Founder/Program Chair, International Drying Symposium Series, IDS, since 1978 (14 IDS's held to date)
- Co-Founder/Chair, Drying Series, ADC, AIDC, NDC series of conferences on drying
- Member, Editorial Board, 5 journals
- Reviewer for 30+ journals

Drying Conferences: Event Venues Since 1978

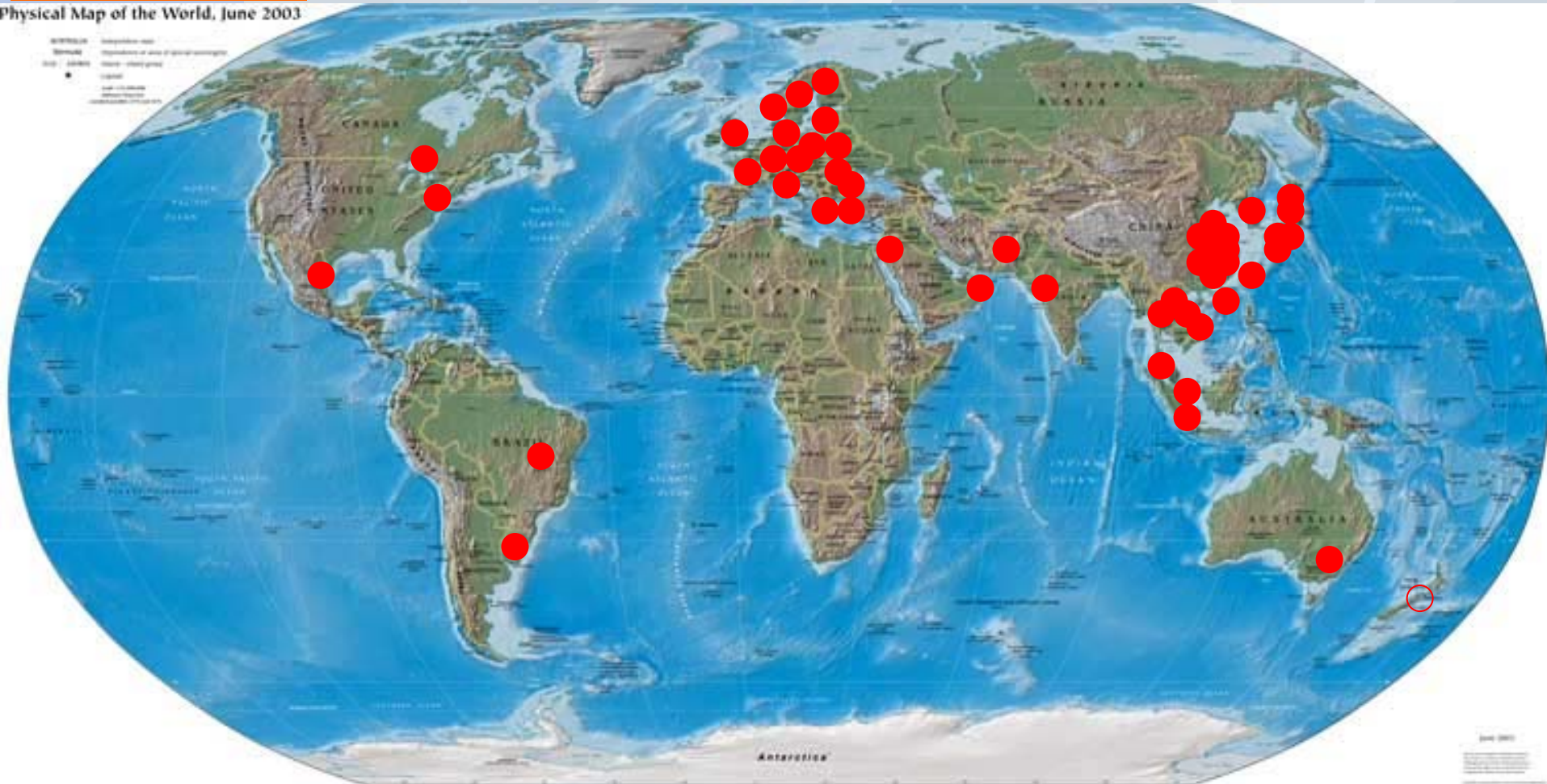


Research Outcomes

- Over 30 M.Eng., 40 Ph.D., 30 postdoctoral researchers advised to date.
- Over 300 refereed papers and 250 conference presentations
- Professional Development Courses for industry/academia in 10 countries

Keynotes / Plenary Lectures

Physical Map of the World, June 2003



- Over 60 keynotes and plenary lectures
- Lectured in 40+ countries

International Collaborations

**J. Irudayaraj
(PSU) USA**

**Z.B. Maroulis
(NTUA) Greece**

**U. Shivhare
(PU) India**

**S. Devahastin
(KMUT) Thailand**

**M. Zhang (SYU)
PR China**

**H. Ogura
(CU) Japan**

**Law C.L. (UiTM)
Malaysia**

**M.L. Passos
(FUMG) Brazil**

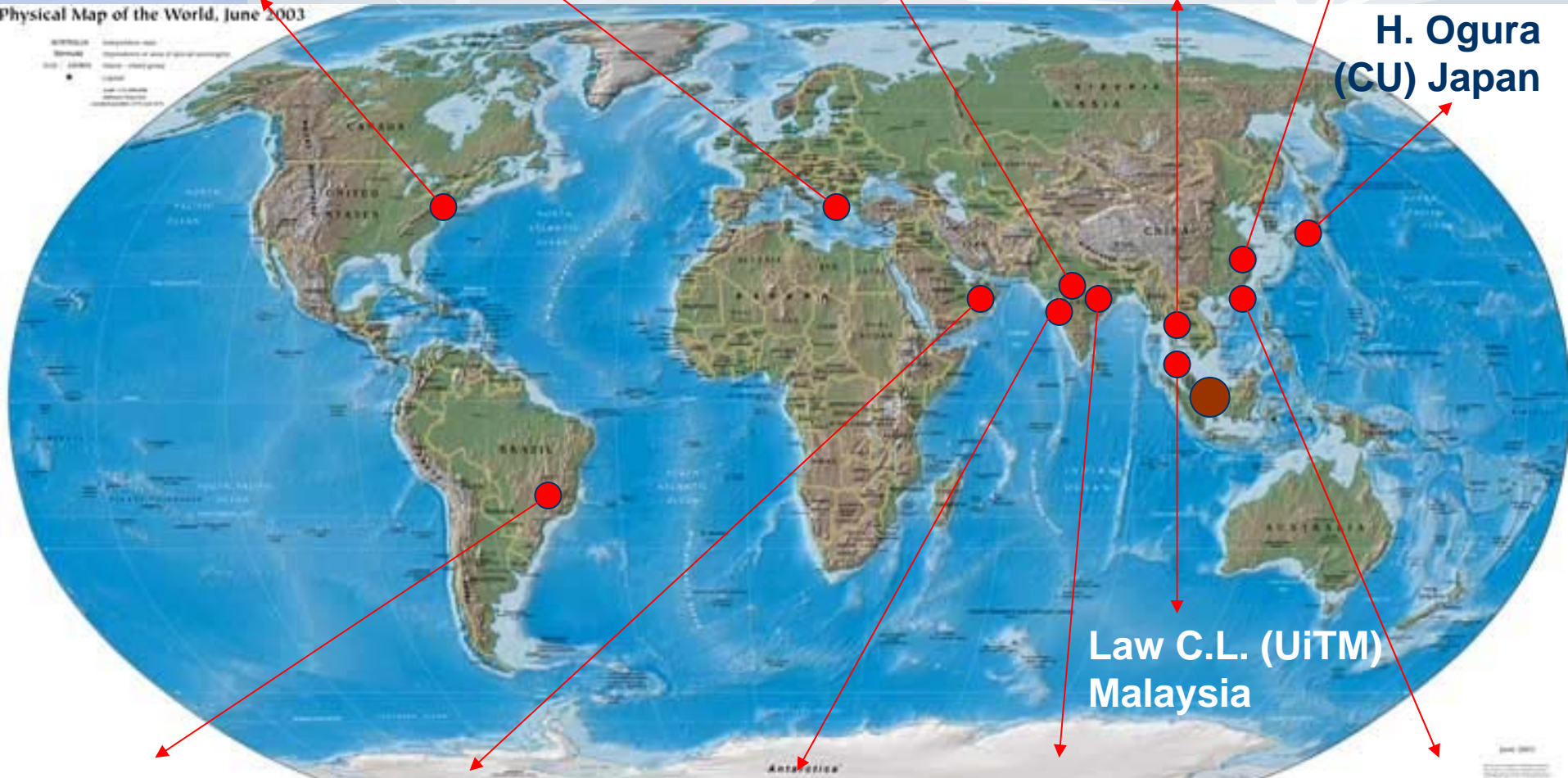
**S. Sablani
(SQU) Oman**

**B. Thorat
(UM) India**

**S. Chakraborty
(IITK) India**

**G. Chen (HKUST)
PR China**

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Further Info

For details including list of publications, please visit www.geocities.com/AS_Mujumdar or use google or any other search engine

