Vijay S. Menon

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EDUCATION: **Master of Science in Chemical Engineering** expected in Dec'96
Syracuse University, Syracuse, NY
L.C.Smith College of Engineering
Course profile:

- Chemical Engineering Methods
- Chemical Engineering Thermodynamics
- Transport Phenomena
- Statistical Quality Control
- Biochemical Engineering
- Polymer Science and Engineering
- Kinetics

Bachelor of Engineering in Chemical Engineering, June 1994
University of Pune, India

EXPERIENCE: **Process Engineer,** Finolex Industries Limited., Ratnagiri, India (Nov/94 - July/95)

- Responsible for operating of the vinyl chloride monomer unit at the polyvinyl chloride (PVC) resin plant and maintaining product quality.
- Participated in the planning and execution of the first annual plant shutdown. Supervised and coordinated plant personnel and contracted agencies during inspection and maintenance.
- Worked on the optimization of oxygen consumption in the ethylene to ethylene dichloride fluidized bed reactor.

Marketing Executive, Finolex Industries Limited., Bombay, India (July/94 - Oct/94)

- Actively involved in the introduction and promotion of the new PVC resin in western India. Worked with the Technical Services division to investigate and solve resin processing problems occasionally encountered by consumers.
- Prepared a detailed database of consumers of PVC resin in western India listing their application, average consumption and suppliers.

Summer Intern,Rashtriya Chemicals & Fertilizers Ltd.,Bombay,India(June/93-Aug/93)

- Studied the operation of methanol and nitric acid plants.
- Completed a study project on the methanol synthesis loop.

GRADUATE RESEARCH: **Master's thesis:** To study the surface acidity and catalytic activity of Silica-Zirconia catalysts using 1-butene isomerization as a reactive probe. The *cis-trans*-product ratio is indicative of the contribution of Brønsted and Lewis acidity to catalytic activity.

Research project: To design and develop, in conjunction with the Center for Research and Education in Special Environments, State University of New York at Buffalo and the Office of Naval Research, a rebreather type underwater breathing apparatus using hollow fiber membranes in flat module configuration to separate carbon dioxide from diving atmospheres.

UNDERGRADUATE RESEARCH: **Senior thesis:** Worked on thesis titled Design of Plant and Process to Manufacture Toluene Diisocyanate (10,000 TPA) at the Chemical Engineering Division of National Chemical Laboratory, Pune, India. Designed a reactor for the liquid phase, instantaneous, diffusion-controlled reaction between toluene diamine and phosgene.

ACHIEVEMENTS:

- Awarded National Talent Search Scholarship for excellence in science.
- Diploma in Quality Improvement Techniques, National Center for Quality Management, Pune, India.

ACTIVITIES:

- Honorary Treasurer, Working Association of Students of Chemical Engineering, (1993-94).
- Editor of the English section of the college magazine, (1992-94).

REFERENCES: Provided upon request