

# HIMA BINDU MEKA

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## EDUCATION:

### Syracuse University, USA

Masters of Science in Chemical Engineering, Expected Graduation: Dec 2004

#### Course Work:

- ◆ Biochemical Engineering (Spring 2004)
- ◆ Biological Waste Water Treatment
- ◆ Applied Environmental Microbiology
- ◆ Environmental Chemistry and Analysis
- ◆ Green Engineering - A Environmental Related Course
- ◆ Fluid Dynamics
- ◆ Chemical Engineering Kinetics
- ◆ Chemical Engineering methods

### Birla Institute of Technology and Science (BITS) Pilani, India

B.E (Hons) Chemical Engineering, May 2002

M.Sc (Hons) Mathematics, May 2002

## COMPUTER SKILLS:

Platforms: UNIX, Windows 95/98/2000/NT/XP

Languages: C, Visual Basic

Web Development: HTML, JavaScript, FrontPage.

Office Applications: Microsoft Office

## PROFESSIONAL EXPERIENCE

Research Assistant (Jan 2002- July 2002)

Indian Institute of Chemical Technology - A research oriented institute run by central government of India.

- ◆ Treatment of Heavy Water Effluent by Pervaporation: Treatment of heavy water effluent to remove butanol, which cannot be removed by the conventional methods like aerobic and anaerobic digestion. Effect of process variables such as feed concentration, permeate vacuum were evaluated to optimize experimental conditions.
- ◆ Oxygen Barrier Properties of Chitosan Polymeric Film: Tested chitosan polymeric film as a barrier to oxygen to check its feasibility as a good packaging material. Chitosan was tested since it is a biodegradable biopolymer when compared to the other currently used synthetic polymers.

Plant Trainee (May 1998-july 1998)

Vasanth Chemical Industries - a company who are the leading manufacturers of "Dye Intermediates" in India.

- ◆ Pay-Roll: Created a program in C to generate Salary, Over Time, Provident Fund, Employees State Insurance statements for employees in the company.

## **PAPER PRESENTATION:**

**“Oxygen Barrier Properties of Chitosan Polymeric Film”**- Presented in BITS, PILANI for APOGEE (A Professional Oriented Gathering over Educational Experience) during the XX All India Academic Week.

## **ACADEMIC PROJECTS:**

### **Acidobacterium in the Adirondack Mountains:**

- ◆ Studied the genetics, function, metabolism, and role of acidophilic microorganisms and acidobacterium in particular.
- ◆ Incorporated laboratory results of the samples collected from Adirondack Mountains.

### **Optimal Design of Shell and Tube Heat Exchanger:**

- ◆ Optimizing the design.
- ◆ Cost and Profit analysis of the equipment.

### **Probability and Statistics:**

- ◆ Studied the various probability distributions, Sampling, Regression, Correlation and concept of fitting a line to a set of data.
- ◆ Formulated a program in C which gave the value of the various probability functions.

### **Bits Virtual University (Web design):**

- ◆ Created an intranet site using HTML and JavaScript for BITS virtual university website.

### **A Computerized Approach to Simulating Banking System's Effectiveness:**

- ◆ Analyzed various simulation methods for measuring the effectiveness of the banking system.

## **LEADERSHIP:**

Member of AWMA (Air and Waste Management Association) & NYWEA (New York Water Environment Association) organization.

Cultural Secretary (1999-2000), Meera Bhawan Girls Hostel BITS, Pilani

- ◆ Organized the prestigious Meera Bhawan nite (cultural nite).
- ◆ Conducted various events based on team building and socializing themes.
- ◆ Organized the seniors' farewell event.

Executive Committee member, Andhra Samithi (a regional association of Bits Pilani)

- ◆ Responsible for organizing various cultural programs based on team building and socializing themes.

## **EXTRA CURRICULAR ACTIVITIES:**

**Interests:** Painting (especially on hollow egg shells), sketching, pot painting, interior designing, reading books.

**Sports:** Basket Ball, Throw Ball (Was part of throw ball team in school)

**Social:** Team member of girl guides team.

## **Reference:**

- S.Sridhar, Scientist, Membrane Separations Group, Indian Institute of Chemical Technology, Tarnaka, Hyderabad-500007, India.  
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