
HASIN MAKSURA FERUZ

162 Fenske Laboratory
Department of Chemical Engineering
The Pennsylvania State University
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EDUCATION

- **Pennsylvania State University**
Ph.D, Chemical Engineering August 2012-Present
CGPA:3.80/4.00
 - **Thesis**
“Light driven membrane protein devices for environmental cleanup and solar hydrogen production”
Principal supervisor: Manish Kumar

- **Bangladesh University of Engineering and Technology (BUET)** March 2012
B.Sc., Chemical Engineering
CGPA : 3.90/4.00
Class position:1st
 - **Thesis**
“Eco-friendly Jute Processing in Bangladesh”
Principal supervisor: Md. Mominur Rahman
 - **Design**
“Design of Atmospheric Distillation Unit in a Petroleum Refinery”
Principal supervisor: Dil Afroza Begum

HONORS

- **Dean’s List Scholarship, BUET (2007-2012 for all academic years)**
- **University Merit Scholarship, BUET in talent pool(2007-2012 for all academic years)**
- **Technical Scholarship for Engineering Education in Bangladesh, BUET (2007-2012 for all academic years)**

PUBLICATION/ PRESENTATIONS

Journal publication

Feroz, Hasin M., Nahar, J., Rahman, M. M. (2011), Eco-friendly Jute Processing, Journal of Chemical Engineering, IEB, Bangladesh, Volume ChE. 26, No. 1, December 2011 (ISSN:2221-7436)

Conference presentation

Nahar, J.,Feroz, Hasin M., Rahman, M. M.(2011), Jute processing: A comparative study, 2nd Annual Paper Meet 2011, Institute of Engineers, Bangladesh (IEB), December 3, 2011

Conference publication

Feroz, Hasin M., Nahar, J., Rahman, M. M.(2011), Performance Evaluation of Various Batching Oils in Jute Processing, 3rd International Conference on Chemical Engineering (ICChE 2011), BUET, Dhaka (Likely date of presentation: 29/30 December 2011)

Poster presentations

Feroz, Hasin M., Nahar, J., Sabrina, Syeda (2011), ‘Hydrogen by MEC: A Fuel Source for the Future’, 3rd International Conference on Chemical Engineering (ICChE 2011), BUET, Dhaka, 30 December 2011
‘Combustion: It’s hot!’ , 2nd International Conference on Chemical Engineering (ICChE) Poster Competition 2008, BUET, Dhaka, January 1, 2009

TEACHING EXPERIENCE

Lecturer, Bangladesh University of Engineering and Technology

Co-Instructor of the following courses:

- Material and Energy Balance Sessional
- Chemical engineering Laboratory I (Fluid Mechanics)
- Chemical engineering Laboratory IV (HYSYS simulation)
- Computational Technique in Chemical Engineering using MATLAB

COURSE WORK/ SKILLS/ TRAINING

- Undergraduate Coursework includes:
Biochemical Engineering, Corrosion Engineering,, Reaction engineering, Transport Phenomena, Fluid Mechanics, Solid Mechanics, Heat Transfer, Mass Transfer, Process Control, Process Design, Organic Chemistry, Physical Chemistry, Material and Energy Balance, etc.
- Experience in use of the following standard laboratory equipment and techniques: Scanning Electron Microscope, Potentiometer, Polarimeter, FT-IR and UV Spectrometer, ASTM standard methods in Fuel Lab, Different Extraction, etc. in Mass Transfer Lab, Unit Operation Lab, etc.
- Extensive familiarity with Aspen HYSYS and MATLAB.
- FORTRAN programming experience.
- Industrial Attachment at Karnaphuli Fertilizer Company Limited (KAFCO), Chittagong, Bangladesh from February 1, 2011 to February 15, 2011

AFFILIATIONS AND ACTIVITIES

- Member of **Chemical Engineering Association (ChEA)**, BUET |(2007-2012)
- Conducted Seminar on ‘**Energy Resources and Governance Issues-Bangladesh Perspective**’, BUET, Dhaka (6 April 2012)
- Volunteer for **23rd AGM and Alumni Reunion**, Chemical Engineering Alumni Association, BUET, Dhaka (6 April 2012)
- Volunteer and fund raiser: BCEF (**BUET Chemical Engineers’ Forum**) (2009-present)
- 1st prize winning group for technical poster on ‘Combustion: It’s hot!’ at the 2nd International Conference on Chemical Engineering (ICChE) Poster Competition 2008, BUET, Dhaka (January 1 2009)
- Conducted ICChE 2011(**International Conference on Chemical Engineering**), BUET (29 December 2011)
- Anchored **Chemical Engineering Job Seminar**, BUET (2011)
- Freelance writer for ‘Chemical Day’ Souvenir (2012)

