



WOMEN IN STEM ROADSHOW

Workshop # 1

February 5, 2018

International Expert – Dr. G. Nasreen Haque

TALKING POINTS

- Honorable Chief Guest, Embassy/Consulate staff, Sultana, Anil, Karen, Local Expert, Volunteers
- AUDIENCE (Delhi) – Thank you for coming today, YOU are the reason I am here, I am truly honored to be a part of this roadshow (thank you Sultana), Delhi is close to my heart, spent my teenage years and young adulthood in this beautiful city....I share quite a few similarities with you
- I
 - Was your age
 - Was enrolled in Science
 - Was Curious/Eager to learn about post graduate options in India and abroad
 - Was looking for female role models/mentors/idols

TALKING POINTS continued...

- Our similarities end there...
- You are very fortunate – you live in INDIA in THESE times.....
- “Women First – Prosperity for all”, Naari Shakti,
- You have role models
- More than 30% of the programmers are female (higher than the western countries)
- Female faculty in Colleges and Universities (could be better!)
- Female Scientists and CEOs

One of my favorite pictures

Inspite of “Balika Vadhu”, “Sasural Simar Ka”, “Qubool Hai” we have this and...



My other favorite picture
Control room of Mars Orbiter Mission (MOM).....elaborate



(Why are we here? Opportunities!)

EDUCATION – INDIA and USA

- My Education
- **St. Stephen's College**
 - B.Sc. (Hons) – Physics
 - (Shout out to Harpreet, my classmate)
 - Male Female student ratio **3:1**
 - Female Faculty Physics **0%** (now it is about **30%**)
 - Subsidiary Subjects – Mathematics and Chemistry
 - Female Faculty Chemistry **0%**
 - Female Faculty Mathematics **0%**

EDUCATION – INDIA and USA

- University of Delhi
 - M. Sc. (Theoretical Solid State Physics)
 - Male Female student ratio **6:1** (in the 80s, now you can figure my age ^)
 - Female Faculty **0%**
- Post Graduate Options – Ph.D. in India and USA....
 - Wish I could participate in a workshop like this one today
 - **YOU ARE THE LUCKY ONES**
 - **FREE** advice and presentations, students pay thousands of rupees to hire a consultant

EDUCATION – INDIA and USA

- Brief overview of process –
- Prepare for the exams – TOEFL, GRE, Subject GRE (exam registration asks for first and last name, we will come to this when we talk about passport)
- Select a location, if important – city/state you want to study
 - I chose Atlanta for family reasons
- Select a University – research the faculty work, departmental opportunities etc.
 - Applied to Georgia State and Georgia Institute of Technology
- Assistantships – Teaching (TA) or Research (RA)
 - Accepted GSU, provided tuition waiver and TA

EDUCATION – INDIA and USA

- Georgia State University
 - Ph. D. (Theoretical Atomic Physics)
 - Female faculty 0%
 - Only female and first doctorate student
 - Met PI (Dr. Sultana Nahar), she came to GSU as post-doc, FIRST female faculty I met in the field of Physics
 - She became my ROLE MODEL and continues till today
 - An interesting fact about my role model - She writes a detailed (4-5 pages, typewritten) note every new year, I read and reread, my motivation for the entire year ahead[^]
 - She is doing amazing work, THANK YOU SULTANA ON BEHALF OF ALL THE WOMEN IN STEM

EDUCATION – INDIA and USA

- Studying in USA
 - Faculty is highly qualified
 - Research opportunities exceptional
 - Enormous resources and facilities available
 - Cutting edge technology
 - Meet students from all over the world, great cultural experience
 - Hard work is valued, appreciated, and acknowledged
 - Attend conferences and workshop where you meet students and faculty from MIT, Harvard, Stanford, Princeton.....

EDUCATION – INDIA and USA

- What I appreciated most about studying in USA –
 - grades were divided between Assignments, mid term exam, tests, final exam. As opposed to ONE big exam at the end of the semester/year.
 - Professors were accessible, regular office hours, could meet and discuss questions, doubts etc.



THANK YOU.....

YOU have taken the important step in choosing a STEM field for College (school girls – look around, so many intelligent and smart young women in STEM around you, choose STEM in 11th and College) stay in STEM)

Find a mentor in STEM – many are willing are happy to be a mentor

NOW take the next important step and come study in USA

