



Dr. Sultana Mahar

**"The Iron Lady of Mathematical
Computations"**

Leodime

Job

- Dr. Sultana Nurun Nahar is a senior research scientist at the Ohio State University. She is an atomic astrophysicist.

Her life

An American flag is positioned in the upper right quadrant of the slide. Below it, a large, vibrant red rose is shown in profile, facing right. The background of the slide is dark with abstract, glowing blue and green light streaks on the right side.

- Dr. Sultana N. Nahar was born in Dhaka, Bangladesh. Her father is Abdur Razzaq. He was a popular lawyer of the Bangladesh high/supreme courts. Her mother is Shamsun Nahar She was known for her charity work. She has two brothers and three sisters.



Her Education

- She got many awards when she was in primary school and when she was in high school. She told us in our interview with her, “I never missed a Math problem, never.” She graduated from Moniza Rahman Girls High School and she got her higher secondary school diploma from Kamrunnesa Girls College.



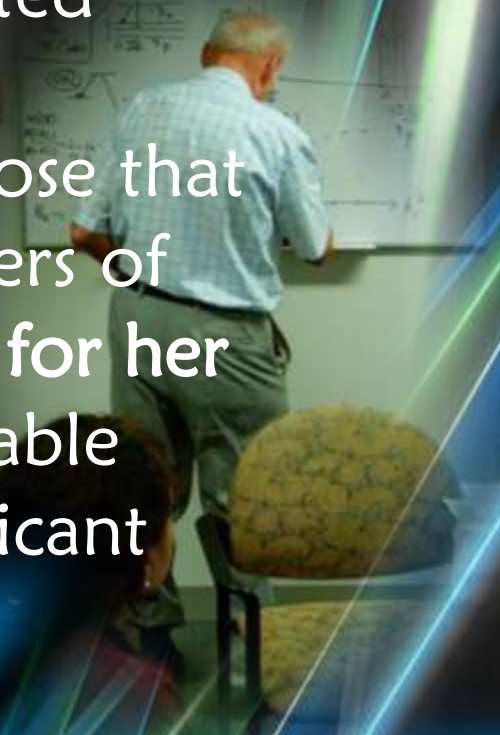
Her degree

- She took her Bachelor degree in Science in 1977 from Dhaka University of Bangladesh , also she was the first woman graduate of BSC Honors in Physics to stand first in the class. She received her Master's Degree in theoretical physics in Dhaka University, standing first in 1979. She received her Ph.D. in atomic theory in 1987.



Research and Projects

- Nahar is also called "The Iron Lady" by astronomers. "Physicists and astronomers around the world use her computationally intensive mathematical models of the iron atom when interpreting complicated spectra produced by high-energy astrophysical processes, such as those that occur near black holes at the centers of active galaxies. **She is also known for her pioneering calculations of remarkable complexity on astrophysical significant processes.**"



Awards



- Honorary plaque by Department of Physics for astrophysics seminar and various contributions.
- Honorary plaque by Department of Management Studies for keynote speech in global warming impact seminar.
- Research contributions recognition plaque by the Topical Society of Laser Sciences.
- Certificate of High Appreciation for the efforts
- of Bangladesh", one of the 12 First Women in Bangladesh.
- ""Our Pride Award" by Bangladesh Association of Central Ohio (BACO)
- APS Fellow, American Physical Society
- Guest of Honor - the "World Women's Day" observation
- Honorary Plaque by N-TV
- Honorary Certificate of Appreciation for services as Professional Mentor for minority students

Awards



- Certificate of Appreciation for contributions as University Postdoctoral Fellow
- University Postdoctoral Research Fellowship Award for Women and Minorities
- Thomas C. Rumble University Graduate Fellowship Award
- Thomas C. Rumble University Graduate Fellowship Award
- Knoller Fellowship Award in Physics
- Daniel R. Gustafson Memorial Award to a graduate student for excellence in teaching
- Knoller Fellowship Award
- First Position Award, M.Sc.in Theoretical Physics
- Merit Scholarships
- First Position Award
- Salekunnessa Award for the Best Woman Student in the B.Sc.Hons. examinations

What We Learned from Doing this Project

- Patience to reach the target .
- Learning from mistakes .
- Learn about an important figure in the life .
- Work cooperatively
- Women are very smart.

Conclusion

- Dr. Sultana told us in the interview, “Boys were always talking loudly and a lot. I knew that at the end of the day I could be heard if I put what I knew on paper. At the end of the day what you write on the paper, your ideas, is what matters most, not if you are male or female.”

