

FIRST CLASS  
US POSTAGE  
**PAID**  
Detroit, MI  
Permit No 3844

1. Thanks to Allah for everything
2. Hungry by the house
3. Thank you for honor
4. ISMWS - Kalina  
Islam - knowledge  
Women - commitment & environment  
Science needs detachment  
Motto: Stay in Science  
Practice: Time for ourselves  
ISMWS:

**WAYNE STATE  
UNIVERSITY**  
Women of Wayne  
Alumni Association  
411 Ferry Mall  
Detroit, MI 48202

Women of Wayne **47<sup>th</sup>** annual

**HEADLINER  
AWARDS**

Saturday, April 27, 2013

Western Golf Club  
14600 Kimloch  
Redford, Michigan

**Women  
of Wayne**

## Headliner Awards

Headliner Awards are presented to Wayne State University alumnae whose achievements have made headlines in the media. The award calls attention to the fact that Wayne State University women are making their marks in society.

### **Catrina Hurst**

B.S. & B.A., School of Business Administration, 2001  
Founder, Cole's Castle Learning Center of Performing Arts

### **Sultana Nurun Nahar**

Ph.D., College of Liberal Arts and Sciences, 1987  
Research Scientist, Department of Astronomy  
The Ohio State University

### **Valerie R. Newman**

Juris Doctor, Law School, 1992  
Assistant Defender, State Appellate Defender Office

#### **Wayne State University Board of Governors**

Debbie Dingell, *chair*, Gary S. Pollard, *vice chair*, Eugene Driker,  
Diane L. Dunaskiss, Paul E. Massaron, David A. Nicholson,  
Sandra Hughes O'Brien, Kim Trent, Allan Gilmour, *ex officio*

## Service Award

The Service Award has been presented annually since 1960 to a Women of Wayne member who has given significant service to the organization and to Wayne State University.

### **Barbara Phillips**

B.A., College of Liberal Arts and Sciences, 1989  
Credit Manager, Little Caesar Enterprises, Inc.

Graduated from Wayne State University with a B.A. in 1989 from the College of Urban, Labor and Metropolitan Affairs, which is now a part of the College of Liberal Arts and Sciences. Joined the board of directors for the Women of Wayne in 2003. Served as recording secretary, east region vice president, president-elect and president. Also served as chair of the nominations committee for two years, co-chair of the 2012 Headliners luncheon and a member of several other committees. Past recipient of the YMCA Minority Achievers award, and volunteer with the DPS Reading Corps as well as Meals on Wheels.

Saturday, April 27, 2013

11 a.m. Reception

Noon Lunch

1 p.m. Program

**Luncheon is \$50 and includes valet parking**

**RSVP by April 13, 2013**

Luncheon details

Entrée **A**: Chicken Marsala

Entrée **B**: Broiled whitefish

House salad

Basket of rolls

Dessert: Ice cream

Western Golf Club



## Theresa Lovi: Introduction for the award:

It is my distinct pleasure to introduce to you Dr. Sultana Nahar - Mother, Astronomer, Researcher, Author, Mentor, and Educator and among many other things - Iron Lady.

Sultana Nurun Nahar, who has a son at Cornell, received her Ph.D. in atomic theory from Wayne State University. A Bachelor of Science and M.Sc. in Physics from Dhaka University in Bangladesh and an M.A. in Physics at Wayne State. She received the Thomas Rumble Graduate Fellowship, Knoller Fellowship and Gustafson Teaching Award as a graduate student at Wayne.

After spending two years as a postdoctoral researcher at Georgia State University in Atlanta, Nahar moved to the Ohio State University with a Mathematical and Physical Sciences Fellowship and joined two international collaborations (US, Europe, Venezuela, Canada) of the Opacity Project and the Iron Project for accurate study of atomic processes in astronomical objects. For her intensive work on astrophysically abundant iron ions, she is also known as the Iron Lady. She maintains an atomic database, built from her work, called NORAD-Atomic-Data that is widely used by astronomers, physicists, and engineers. It is linked from International Atomic Energy Agency, CfA of Harvard University, Fusion Control Center of Oak Ridge National Lab, and the International Astronomical data pages.

Nahar is the co-author of the graduate textbook "Atomic Astrophysics and Spectroscopy" (Cambridge University press, 2011) which has been on the Amazon Bestseller list, of its kind, since publication. She has guided students with research and received the Outstanding Research Mentor Award in 2012 from Ohio State and the highest honor gold medal from the Topical Society of Laser Sciences in 2012.

Nahar and her colleagues have developed a method called Resonant Nano-Plasma Theranostics (RNPT) for more efficient cancer treatment. The method is now being tested on cancerous rats in collaboration with pathologists and radiation oncologists with very promising results. RNPT may be listed as one of the four most practical applications of astronomy: to human daily life. Those 4 are: GPS, wireless internet, precise eye surgery with lasers and RNPT, (according to Astronomy Magazine 2012).

Nahar has been a promoter of research and STEM (Science, Technology, Engineering and Mathematics) education in several Asian and Arab countries and is the founder of the International Society of Muslim Women in Science with members from 21 countries. The 2013 John Wheatley Award of the American Physical Society has recognized her work.

Please help me in welcoming Dr. Nahar to the podium.