

2019 Gertrude Scharff-Goldhaber Prize Ceremony

Brooke Russell

for Equal Advancement

BWIS



presented by Brookhaven Women in Science

Brookhaven Women in Science (BWIS) is a diverse and inclusive community that promotes equal opportunity and advancement for all women in support of world-class science.

BWIS is a volunteer-run 501(c)(3) non-profit organization located at BNL. For more information visit www.bnl.gov/bwis or find us on Facebook.

Gertrude Scharff-Goldhaber



- ❖ first woman PhD to be hired by BNL in 1950.
- ❖ started the Brookhaven Lecture series in 1960
- ❖ founding member of BWIS in 1979
- ❖ “The vicious cycle which was originally created by the overt exclusion of women from mathematics and science must be broken... [I]t is of the utmost importance to give a girl at a very early age the conviction that girls are capable of becoming scientists.”

Gertrude Scharff-Goldhaber



- ❖ first woman PhD to be hired by BNL in 1950.
- ❖ started the Brookhaven Lecture series in 1960
- ❖ founding member of BWIS in 1979
- ❖ Robert Park (APS): “One of the great women pioneers in what was an almost exclusively male profession. ... An inspiration to generations of women in physics, she was only the third female physicist elected to the National Academy of Sciences.”

Gertrude Scharff-Goldhaber



- ❖ first woman PhD to be hired by BNL in 1950.
- ❖ started the Brookhaven Lecture series in 1960
- ❖ founding member of BWIS in 1979
- ❖ Peter Bond: “Trudy Goldhaber made important contributions to science, but she also made strong contributions to the Lab as a whole, to women in science and to education. She made the Lab a better place.”

BROOKHAVEN BULLETIN

Vol. 46 - No. 13 March 27, 1992
BROOKHAVEN NATIONAL LABORATORY

Mary White Heads Labwide Training Effort

To ensure that all employees are appropriately trained in accordance with a new Lab training policy, the BNL Training Office has been established — headed by Mary White, Personnel Division.

As explained by BNL Director Nicholas Samios, the office was created "as part of our commitment to the Tiger Team to establish standards for the Laboratory's training program."

The U.S. Department of Energy's (DOE) Tiger Team visited BNL in 1990 during DOE's assessments of the national laboratories' compliance with applicable environmental, safety and health regulations. It recommended a more consistent Labwide approach to training. Thus, the new office will put a new BNL training policy into effect.

This policy, together with standards and guidelines for training, was the recommendation of an 18-person task force, which reported to BNL Deputy Director Martin Blume and included representatives of management, existing training functions, and environmental safety and health coordinators. The task force's proposals, the result of several months of work, were tried out on a small scale in the Alternating Gradient Synchrotron Department (AGS), which was chosen for this purpose because it had already developed a training plan.

Following a successful pilot program in the AGS, the BNL Training Office was established. Its responsibilities, as announced in Samios' January memo to department and division managers, include: establishing training standards and seeing that they are carried out; coordinating preparation of department and division training plans; setting up and maintaining a Labwide training database; assisting department training coordinators in the design

and development of training courses; and evaluating and reporting on the Lab's progress toward achieving a documented, performance-based training program.

"To establish the training program on these lines is an tremendous undertaking," said White, "but once it is in place, there will be many advantages. Labwide coordination will avoid duplication of effort and provide consistency of documentation. Many departments and divisions are already delivering excellent training to employees, but without consistent documentation,

the Lab does not always get credit for these efforts.

"I feel strongly, however," continued White, "that it is very important to recognize the diversity of the Lab. Within our policy there is flexibility to accommodate differences in how departments accomplish the common goal. For example, as training procedures are proposed, we will ask for input as to how they might work in practical application. Of course, there must be a minimum level of consistency in order to have an effective database."

As White sees it, one of her first



Mary White, Training Office Manager, meets with Management Oversight Committee members: (standing, from left) Gerald Klane, Associate Director for Reactor, Safety & Security; Robert D'Angio, Personnel Division Manager; Richard Spellman, Central Shops Division Manager; (seated, from left) Chemistry Department Chairman Norman Sutin and BNL Deputy Director Martin Blume. Not present is Mark Sakitt, Assistant Director for Planning & Policy.

Feldberg Honored for Research

Senior Chemist Stephen Feldberg, who heads the Chemical Sciences Division (CS3) in the Department of Applied Science (DAS), was awarded this year's Charles N. Reilly Memorial Award for Electroanalytical Chemistry.

The award was presented to Feldberg in the form of a plaque and a \$1,500 honorarium by the Society of Electroanalytical Chemistry on March 11, at an award symposium during its annual Pittsburgh Conference and Exposition on Analytical Chemistry and Applied Spectroscopy in New Orleans. Recognizing an active researcher who has made a major contribution to the theory,

instrumentation or applications of electroanalysis, the Reilly Award award is supported by BAS, Inc.

Electrochemistry deals with the physical chemical changes accompanying the passage of an electric current through a solution. In electroanalytical chemistry, electrochemical measurements are used to analyze and describe the behavior of various chemical systems.

Feldberg was cited for "persistently novel insights [in] electrochemical processes [that] have benefited [his] many colleagues around the world." In addition, it was noted, his "nomination was supported by an unusually wide spectrum of [his] colleagues and was indicative of their appreciation of [his] pioneering role and the influence of [his] outstanding collaborations over the breadth of electrochemistry."

As his major contribution to electroanalytical chemistry, Feldberg was recognized for using what are called finite-difference equations to solve previously intractable problems evolving from complex interaction of electron transfer, mass transport and chemical reactions.

Prior to his work, "Many problems of interest were being oversimplified to make them mathematically tractable," explains Feldberg. "Now, because these numerical methods are reasonably user-friendly, people



Stephen Feldberg

(continued on page 2)

Women's History Month Salute

Mary White is only one of the 852 women who today make up nearly one-quarter of BNL's work force of 3,400. She is also representative of approximately 500 Brookhaven women in management, administrative, clerical or supervisory positions.

Said Women's Program Coordinator Virginia Brown, "The business of the Laboratory is science, but our scientists, engineers and others on the research and development staff need administrative support to accomplish research objectives. Because, at BNL, there is a relatively large proportion of women performing many aspects of administrative support, it is appropriate for BNL to salute their accomplishments as part of the 1992 observance of Women's History Month."

At the Laboratory, administrative support specialists range from administrative division managers, accountants and budget analysts to secretaries, office services assistants and administrative assistants.

It is to establish strong links with each department and division through the designated training coordinator who will be the liaison with the Training Office.

"I think the key to a good Labwide program is participation at the working level," said White. "I am soliciting ideas from training coordinators so that they may develop workable departmental training plans. The Training Office will provide hands-on assistance, especially in the beginning stages, to help training coordinators get started."

(continued on page 2)

New Women's Physics Prize Honors Gertrude Goldhaber

As Women's History Month draws to a close, Brookhaven Women in Science (BWIS) announces that applications are now being accepted for a new physics prize to be awarded to a woman graduate student in physics at the State University of New York at Stony Brook, in recognition of her substantial promise and accomplishment.

The Gertrude S. Goldhaber Prize has been established to honor Gertrude Scharff-Goldhaber for her outstanding contributions in the field of nuclear physics and for her support of women in science.

Now a collaborator in the Physics Department, Scharff-Goldhaber in 1950 became the first woman Ph.D. physicist appointed to the BNL staff. In her research, she has specialized in studying the systematics and characteristics of nuclear excitations in a wide range of nuclei, and has synthesized her understanding of these static and dynamic nuclear properties into far-ranging models. She has also left her mark at the Lab as the founder of the Brookhaven Lecture series, in 1960, and a founding member of BWIS, in 1978.

The winner of the Goldhaber Prize will receive \$500 from a fund administered by BWIS and will be expected to give a seminar on her work at the award ceremony to be held this fall. To be eligible for the award, a nominee must be a candidate for a doctoral degree, must still be active as a physics graduate student and must not be receiving her degree before October 1 of this year.

Any member of the BNL staff or the faculty in Stony Brook's Physics Department may nominate candidates for this prize. The nomination deadline is May 8, 1992, and the award receipt will be announced by mid-June.

For more information on nominations or to make a contribution to the prize fund, contact BWIS Goldhaber Prize, P.O. Box 183, Upton NY 11973, or call Vicki McLane, Ext. 5205.



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1992 First Prize Recipient

July 17 1992

First Goldhaber Prize Awarded

Xiaodong Zhang, a BNL guest junior research associate who has just completed her third year as a physics graduate student at the State University of New York at Stony Brook, has been selected by Brookhaven Women in Science (BWIS) as the first winner of the new Gertrude S. Goldhaber Prize in physics.

Zhang was nominated for the \$500 prize by Janos Kirz, a professor of physics at Stony Brook who conducts research at BNL's National Synchrotron Light Source (NSLS) on x-ray microscopy, a technique for producing images of biological specimens. Zhang began working with Kirz's NSLS group after completing her first year of graduate school. As Kirz wrote, "It took her very little time to learn enough to become an important contributor."

Among Zhang's accomplishments, Kirz cited the deconvolution of the



Roger Stoutenburgh

Xiaodong Zhang at x-ray microscopy beam line X1A, at the NSLS.

First Gertrude S. Goldhaber Prize Presented

Xiaodong Zhang (left), a graduate student in physics at the State University of New York at Stony Brook and a guest junior research associate at BNL, was awarded the first \$500 Gertrude S. Goldhaber Prize in Physics on October 1.

Presented by Brookhaven Women in Science (BWIS), the award honors Gertrude Scharff-Goldhaber (second from right). Now a collaborator in the Physics Department, the noted nuclear physicist was a founding member of BWIS and has long been a champion of education and opportunities for women in science. She was also the first woman Ph.D. to be hired at Brookhaven, when she and her husband, former BNL Director Maurice Goldhaber (right), AUI Distinguished Scientist emeritus, came to the Lab in 1950.

Their son, Alfred Goldhaber (second from left), is with Stony Brook's Physics Department. He presented the award to Zhang just before she gave a seminar on her research in scanning soft x-ray microscopy.



Roger Stoutenburgh



Oct. 1st 1992

1992 First Prize Recipient

Imperial College
London

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PROFESSOR XIAODONG ZHANG

/// Faculty of Medicine, Department of Medicine

Professor of Macromolecular Structure and Function

■ SUMMARY

■ MINI CV

- 1988 - B.Sc. in Physics, Peking University, China
- 1995 - Ph.D. in Physics, SUNY @ Stony Brook, USA
- 1995 - 1997 postdoctoral fellow, Harvard University

AFFILIATIONS

- > Centre for Structural Biology
- > Electron Microscopy Centre
- > Structural Biology

LINKS

CONTACT

+44 (0)20 7594 3151

Recipients Thus Far

year	name	affiliation	year	name	affiliation
2018	Minjung Kim	Seoul NU	2003	Lilia Anguelova	SBU
2017	Anna Gura	SBU	2003	Carola Berger	SBU
2016	Kathryn Meehan	UC Davis	2002	Yiing-Rei Chen	SBU
2015	Fen Guan	SBU	2001	Jane Burward-Hoy	SBU
2014	Li Yi	Purdue	2001	Irina Mocioiu	SBU
2013	Sara Callori	SBU	2001	Rebecca Christianson	MIT
2012	Marija Kotur	SBU	2000	Diana Vaman	SBU
2011	Megan Connors	SBU	1999	Angelika Osanna	SBU
2010	Johanna Nelson	SBU	1998	Shan-Ho Tsai	SBU
2009	Na Li	CCNU	1998	Mary Josephine Bellanca	SBU
2008	Christine Nattrass	Yale	1997	<i>N.N.</i>	<i>N.N.</i>
2007	Manuela Kulaxizi	SBU	1996	Q. Joan Harris	MIT
2006	Enju Lima	SBU	1995	<i>N.N.</i>	<i>N.N.</i>
2005	Anne Sickles	SBU	1994	Fang Shu	SBU
2004	Mirna Lerotic	SBU	1992	Xiaodong Zhang	SBU

Thanks to Linda Bowerman, Will Safer & his team for archaeological support!



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2018	Minjung Kim	Seoul NU	2003	Lilia Anguelova	SBU
2017	Anna Gura	SBU	2003	Carola Berger	SBU
2016	Kathryn Meehan	UC Davis	2002	Yiing-Rei Chen	SBU
2015	Fen Guan	SBU	2001	Jane Burvick	SBU
2014	Li Yi	Purdue	2001	Irina Gerasimova	SBU
2013	Sara Callori	SBU	2001	Julia Christianson	MIT
2012	Marija Kotur	SBU	2000	Diana Vaman	SBU
2011	Megan Connors	SBU	1999	Angelika Osanna	SBU
2010	Johanna Nelson	SBU	1998	Shan-Ho Tsai	SBU
2009	Na Li	Yale	1998	Mary Josephine Bellanca	SBU
2008	Christine Neill	Yale	1997	N.N.	N.N.
2007	Manuela M. S. M. S. M.	SBU	1996	Q. Joan Harris	MIT
2006	Christine Neill	SBU	1995	N.N.	N.N.
2005	Heather Sickles	SBU	1994	Fang Shu	SBU
2004	Mirna Lerotic	SBU	1992	Xiaodong Zhang	SBU

Still in academia: ≥69%; in tenure (track) position: ≥63%

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