

**THE 10TH ANNUAL
SHARING OUR SUCCESS CONFERENCE
IN URBAN SCIENCE AND MATH TEACHING**

The SOS Conference provides a forum for Math and Science Teachers in urban K-12 grade schools, selected K-12 Grade math and science students, school district personnel, and university math and science faculty to meet and share their successful strategies for increasing interest and participation in math and science.

The Conference includes two days of workshops, presentations and special invited lectures that address current issues in science and math teaching and learning.

May 1 & 2, 2009

New York University

On-site registration \$30.00

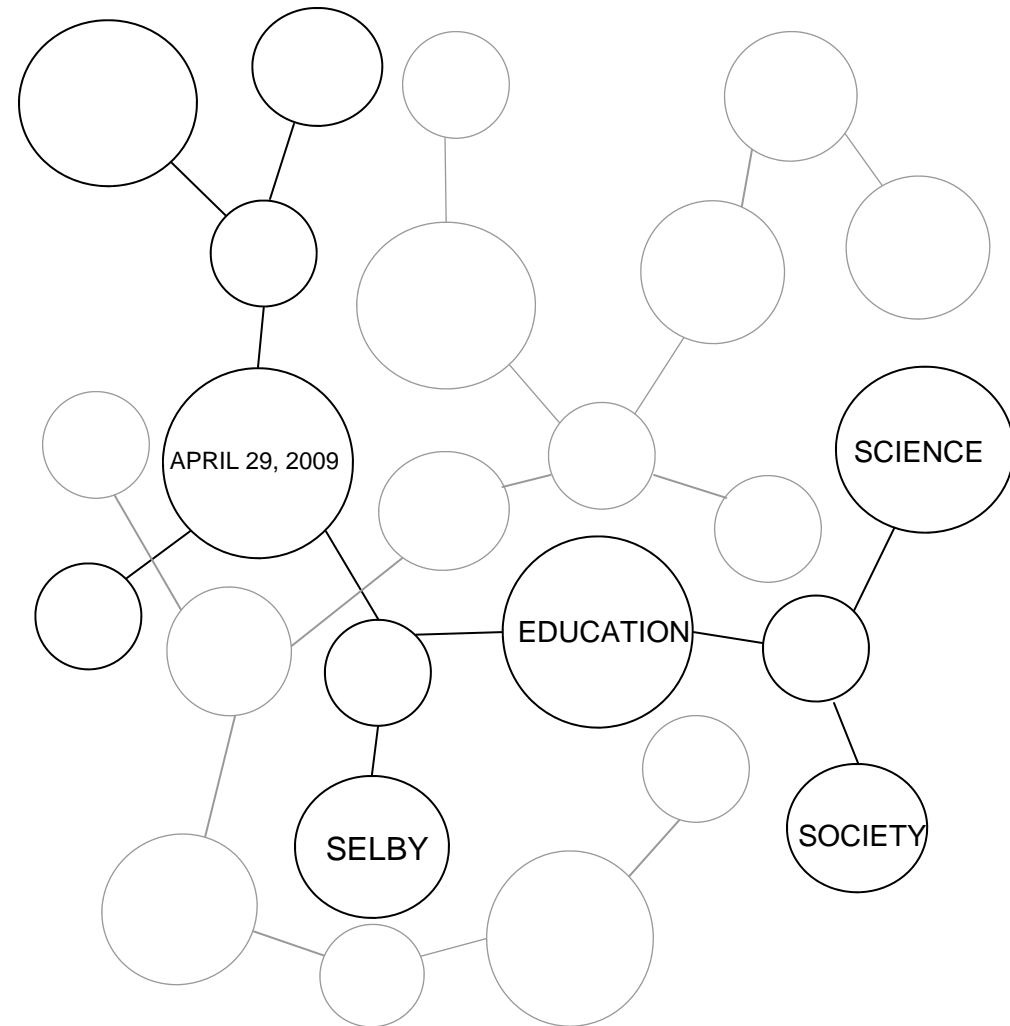
includes breakfast, lunch and conference package for both days.



NEW YORK UNIVERSITY

To learn more or to view the conference program please the conference website:

www.steinhardt.nyu.edu/teachlearn/science/conferences/sos2009



**SCIENCE EDUCATION:
LINKING SCIENCE AND SOCIETY**

APRIL 29, 2009

NEW YORK, NY

PROGRAM OF EVENTS

Welcome 2:00-2:30 PM

“The Need for Linkages” by Pamela Fraser-Abder,
Professor, Science Education, NYU Steinhardt School

Introduction of Cecily Selby by Janice Koch,
Professor, Science Education, Hofstra University, Ph.D. NYU

Opening Remarks and Introduction of Speakers by Cecily Selby,
Retired Professor, Science Education, NYU
Trustee Emerita, NY Hall of Science, Ph.D. MIT

Panel Discussion 2:30-3:30 PM

“Linkages through the Classrooms and Teaching” featuring:
Janice Koch
Pamela Fraser-Abder
Paul Jablon, Professor, Science & Interdisciplinary Education, Science
Education, Lesley University, Ph.D. NYU
Julia Rankin, Former Head of Science, NYC Department of Education

Ten-Minute Break

Remarks 3:40-4:30 PM

“Linkages Beyond the Classroom” featuring:
Marcia Rudy, President, Art & Science Collaborations Inc., Ph.D. NYU
Maura Flannery, Professor, Biology, St. John's University, Ph.D. NYU
Margaret Honey, President & CEO, NY Hall of Science
Joe Witte, WABC-TV Weathercaster

Concluding Remarks 4:30-5:00 PM

*“Science Education for a Competent, Confident, and Democratic
Society”* by Cecily Selby

Closing Remarks by Mary Brabeck, Dean, NYU Steinhardt School

***Guests are invited to attend a reception hosted by the Selby
Family immediately following the closing remarks***

WITH SPECIAL THANKS

Event Sponsors

The Selby Family

Event Orchestrators

Pamela Fraser-Abder • Janice Koch

Speakers

*Mary Brabeck • Maura Flannery
Margaret Honey • Paul Jablon
Julia Rankin • Marcia Rudy
Joe Witte*

Posters and Hands-on Demonstrations

Steinhardt Faculty:

*Jason Blonstein • Susan Kirch
Mary Leou • Catherine Milne
Bob Wallace*

NY Hall of Science:

Preeti Gupta

Doctoral Candidates:

*Ranyee Chieng • Christine Coughlin
Sanaz Ferangi • Karen Mckeown
Regine Rossi • Frank Signorello*

Event Production & Video

Lou Rosenberg • Kit To

Greeters

*Christiana Belfon • Celia Luchen
Carole Mulligan • Lena Singh*

Musicians

Jerry DeVore • Lenart Krecic • Matteo Liberatore

Please visit our website:

www.steinhardt.nyu.edu/teachlearn/science/

to learn more about STEM at
NYU Steinhardt, view today's video footage or
PowerPoint presentations, or read a summary of
the symposium's highlights.

SPEAKERS' BIOGRAPHIES

Julia Rankin Ph.D. brought extensive experience in K-20 science education to her tenure (2004-2007) as Director of K-12 Science for the New York City Department of Education. Previously, she taught biology and ecology in West Haven, CT, was Director of Science/Life Skills K-12 for Bridgeport Public Schools, an education specialist for National Audubon, and developed a regional School to Career model agriculture/aquaculture school. Her degrees include an M.S. in Environmental Education and a Ph.D. in Special Education: Gifted, Science, Technology from the University of Connecticut. Now living in Los Angeles, Dr. Rankin is President of The Science Collaborative Inc, and coordinates the California Science Project teacher Retention Initiative, and the Science and Math Initiative for the Urban Education Partnership. Experienced in working with partners as an adjunct faculty at Yale University, University of Connecticut, and University of Bridgeport, Dr. Rankin's worked with Dr. Fraser-Abder on the Petrie Partnership Program for science teachers while in New York.

Marcia Rudy Ph.D. is currently a consultant to museums and organizations on science, science/art/technology programs, exhibitions and special projects. At the New York Hall of Science from 1981-2006, Dr. Rudy was responsible for public programs, special events, preschool exhibitions, art/science/technology and traveling exhibitions, and science birthday parties and sleepovers. Previously, she taught high school English, junior high school science, and worked on the seminal early science education television program *3-2-1 Contact*. Her M.A. and Ph.D. in Science Education are from Columbia University's Teachers College and NYU. She is President of the Board of Art & Science Collaborations, Inc., and serves on the boards of Museums Council of New York City, Council of Protocol Executives and Queens County Farm Museum.

Joe Witte has a background in climate and television. He started his career as a USGS glaciologist/meteorologist on Mt. Rainier, then Principal Investigator on Ice Island T-3 in the Arctic Ocean, and then as Programmer at NOAA's original climate computer center at Princeton, NJ. After a slight detour of 30 years as a TV weather forecaster, mostly as Chief Meteorologist for NBC's network in New York City — flying into hurricanes, etc — Witte is combining his science and TV news communication skills. He is working on the Ph.D thesis he developed on informal science communication using collaborations with the American Meteorological Society, the National Environmental Education Foundation, and George Mason University, among others. Since NSF studies indicate the majority of Americans learn about science via local TV, Witte's theory is that the local TV meteorologist can be that needed and "trusted" source of science news on a nightly basis.

ABOUT CECILY CANNAN SELBY

Cecily Cannan Selby holds an A.B. in physics from Radcliffe College and a Ph.D. in Physical Biology from the Massachusetts Institute of Technology. Her distinguished career as a research biophysicist was initiated at the Sloan-Kettering Institute, and at Weill Cornell Medical College where she published 13 original research papers while leading the first electron microscopic studies of skin and oncological viruses.

To accommodate family life with her three sons, Dr. Selby moved to educational and administrative work as Headmistress of the Lenox School, followed by the National Executive Director of Girl Scouts USA, and then later as President of Americans for Energy Independence in Washington D.C. After her sons left for college, she found her way back to science through science education. Growing up as the daughter of an NYU professor, she was particularly delighted to continue working in higher education, first as Dean at the North Carolina School of Science and Mathematics and later joining New York University as a Professor of Science Education. Her leadership in science education was recognized in the 80's by the National Science Board, which invited her to co-chair its landmark Commission on K-12 Mathematics, Science, and Technology Education.

Dr. Selby served as trustee of Radcliffe College, Brooklyn Law School, Girls Incorporated, and Woods Hole Oceanographic Institution, among other non-profit institutions. She was a Member of the Corporation of MIT and Vice-President of the New York Hall of Science's Board, whose Council she founded. She was the first female director of Avon Products, and the sole female director of RCA and NBC Corporations, and has served as an active member of the New York Academy of Science's Education and Women in Science Committees, and as an Affiliated Scholar of the Radcliffe Institute of Harvard University.

Additional honors have come her way since election as an undergraduate as a Junior Member of Sigma Xi: Fellowship in the New York Academy of Sciences and the Association of Women in Science, an Alumnae Career Recognition Award by the Radcliffe Association, and election as Trustee Emerita of the New York Hall of Science. She now writes and speaks on issues related to science, science education and women in science, and enjoys with pride the company of five grandchildren.

SPEAKERS' BIOGRAPHIES

Mary Brabeck Ph.D. joined The Steinhardt School of Culture, Education, and Human Development as Dean and Professor of Applied Psychology in October, 2003. A leader in the field of applied psychology, Dr. Brabeck was the dean of Boston College's Lynch School of Education from 1996-2003 and a Professor of Counseling and Developmental Psychology at Boston College from 1980-2003. Her research interests include intellectual and ethical development, values and conceptions of the moral self, professional ethics, inter-professional collaboration, and evidence-based teacher education. Dr. Brabeck has served as a member of the American Psychological Association's Board of Educational Affairs 2004-2007, the Carnegie Corporation's Teachers for a New Era Research Coordinating Council, and the Standing Hearing Panel of the Ethics Committee. She chaired the APA-BEA Task Force on Applications of Psychological Science to Teaching and Learning and is a member of CRSPPP, the Board of Directors of the National Church Leadership Roundtable, the Board of Trustees of the Ross Global Academy, and the Academic Advisory Board of Facing History and Ourselves. She currently is on the executive committee of the Council of Academic Deans in Research Education Institutions.

Maura C. Flannery Ph.D. is Professor of Biology and Director of the Center for Teaching and Learning at St. John's University. Since her doctoral studies with Cecily Selby at NYU, her research studies have focused on communicating science to non-scientists, using visual images in biological communication, and how the aesthetic of biology plays a role in biological inquiry. She has authored articles for such journals as *Leonardo*, *Perspectives in Biology and Medicine*, *American Biology Teacher*, and *International Studies in the Philosophy of Science*, and published two books of essays, *Bitten by the Biology Bug* (1991) and *D'Arcy Thompson's Ice Cream* (2001). Dr. Flannery was selected as a 2000-2001 Carnegie Scholar and serves on the advisory board for the BioQUEST Curriculum Consortium which promotes active learning and technology in college biology courses.

Pamela Fraser-Abder Ph.D. was recommended by Cecily Selby upon her retirement from the Department of Teaching and Learning to fill her position. Fraser-Abder is recognized both nationally and internationally for her expertise in professional development and on the impact of gender and cultural issues on the teaching and learning of science. In 2010 her three book series on professional development for K-8 teachers will be released. At NYU, Fraser-Abder directs several programs that have supported over 600 female and minority in-service, uncertified math and science teachers as they complete their master's degrees and New York State certification. In 2008 she received the Steinhardt Teaching Excellence Award.

SPEAKERS' BIOGRAPHIES

Margaret Honey Ph.D. is the President and CEO of the New York Hall of Science. Previously, she served as Vice President of the Education Development Center and Director of EDC's Center for Children and Technology. Her doctoral studies in developmental psychology at Columbia University led to early involvement in the notable public television series "The Voyage of the Mimi", and to continuing work using digital technologies to support children's learning across the disciplines of science, mathematics, engineering and technology. Dr. Honey has led numerous innovative and successful education efforts involving the use of digital media, including nationally recognized reform work in the Union City, NJ school district. Dr. Honey has shared what she's learned before Congress, state legislatures, and federal panels, and through numerous articles, chapters, and books.

Paul Jablon Ph.D. finished his doctoral studies at NYU with Cecily Selby following 19 years as a classroom teacher in New York City Public Schools. His doctoral thesis documented the strategies and successes of a biology program he initiated at Middle College High School, an innovative school developed with his colleagues, and now being replicated throughout the country by the Gates Foundation. Dr. Jablon has directed science education at Brooklyn College, served on the faculty of the University of Massachusetts and is now associate professor at Lesley University's College of Education. During this time he has directed NSF funded school change projects impacting how thousands of teachers approach science teaching and learning, and has been honored by the Science Council of New York and the New York Biology Teachers Association for outstanding service, teaching, and lifetime achievement.

Janice Koch Ph.D. is a Professor of Science Education at Hofstra University where she directs IDEAS (Institute for the Development of Education in the Advanced Sciences). She has many publications in edited texts and professional journals addressing science education, gender issues in the classroom and making science accessible to underrepresented groups. She is the author of *Science Stories: Science Methods for Elementary and Middle School Teachers* (4th edition, 2010) and the introduction to the education textbook, *So You Want to be a Teacher? Teaching and Learning in the 21st Century* (2009). Dr. Koch began her doctoral work in science education with Cecily Cannan Selby in 1988 and was influenced to pursue linkages between science and society as a result of Dr. Selby's mentorship.