



HOFSTRA UNIVERSITY®

HEMPSTEAD, NEW YORK 11549

**Building a Scientifically Literate Population  
and Workforce for the 21st Century – Part 2:  
*The Science of Patterns and Colors***

▶ **Thursday and Friday  
October 23 and 24, 2008**



HOFSTRA UNIVERSITY  
DEPARTMENTS OF CHEMISTRY,  
PHYSICS AND ASTRONOMY,  
and  
CURRICULUM AND TEACHING  
and the  
HOFSTRA CULTURAL CENTER  
present



## Building a Scientifically Literate Population and Workforce for the 21st Century – Part 2: *The Science of Patterns and Colors*

Thursday and Friday, October 23 and 24, 2008

**Stuart Rabinowitz**

*President and Andrew M. Boas and  
Mark L. Claster Distinguished Professor of Law  
Hofstra University*

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**CONFERENCE CO-DIRECTORS**

**Sabrina G. Sobel**

*Chair and Professor of Chemistry  
Department of Chemistry  
Hofstra College of Liberal Arts and Sciences*

**Irene Plonczak**

*Assistant Professor of Curriculum and Teaching  
Director, Master of Arts Program in Elementary Education,  
Specialization in Math, Science and Technology  
School of Education, Health and Human Services*

**CONFERENCE COORDINATOR**

**Carol D. Mallison**

*Conference Coordinator  
Hofstra Cultural Center*

Conference partially supported by National Science Foundation grant CHE-0515691(PI: Harold M. Hastings; Co-PI: Sabrina G. Sobel). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

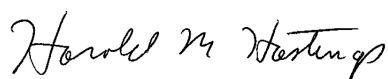
## Letter from the Chair and Professor of Physics

Dear Fellow Educators:

I would like to formally invite you to join us at *Building a Scientifically Literate Population and Workforce for the 21st Century - Part 2: The Science of Patterns and Colors*. I expect that the conference will provide an additional opportunity for all of us to work together in our shared mission of educating our nation's future scientists and science educators. We have arranged an outstanding program with plenty of time for everyone to interact.

I am also pleased to let you know that we have support from the National Science Foundation to reimburse the registration fees for up to 50 educators who need assistance in order to attend. Please note that any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Sincerely,



Harold M. Hastings  
Chair and Professor of Physics  
Department of Physics and Astronomy

THURSDAY, OCTOBER 23, 2008

**11:30 a.m.-4 p.m.**

**CONFERENCE REGISTRATION AND COFFEE**

Greenhouse, Sondra and David S. Mack Student Center  
Lower Level, North Campus

**SCIENCE EDUCATION RESEARCH POSTER SETUP**

Individuals presenting posters may set up at this time in the Greenhouse.

**Noon-1 p.m.**

**LUNCH** (*on your own*)

**1-1:30 p.m.**

**OPENING REMARKS**

**Herman A. Berliner**  
Provost and Senior Vice President for Academic Affairs  
Lawrence Herbert Distinguished Professor  
Hofstra University

**Bernard J. Firestone**  
Dean and Professor of Political Science  
Hofstra College of Liberal Arts and Sciences  
Hofstra University

**Karin Spencer**  
Associate Dean  
School of Education, Health and Human Services  
Hofstra University

Harold M. Hastings  
 Chair and Professor of Physics  
 Department of Physics and Astronomy  
 Hofstra University

1:30-3 p.m.

**SESSION I: PATTERNS AND COLORS IN SCIENCE EDUCATION**

Jacqueline Grennon Brooks  
 Associate Professor of Curriculum and Teaching  
 Department of Curriculum and Teaching  
 Hofstra University  
*and*  
 Director  
 Children's Maritime Museum at Port Jefferson

Sylvia Silberger  
 Associate Professor of Mathematics  
 Department of Mathematics  
 Hofstra University

3-4 p.m.

**SESSION II: VIDEO CONFERENCE: NSF GRANT OPPORTUNITIES**

Local School Grants

Christopher Egan  
 Assistant Dean, Research and Sponsored Programs  
 Office for Research and Sponsored Programs  
 Hofstra University

NSF (National Science Foundation) Grant Opportunities  
 Representative, NSF

4-5 p.m.

**POSTER SESSION AND COFFEE BREAK**

6-7:30 p.m.

**DINNER** *(on your own)*

7:30-9 p.m.

**PLENARY LECTURE AND IDEAS SEMINAR**

Monroe Lecture Center Theater  
 California Avenue, South Campus

**“Order Out of Chaos: How Molecules Can Organize Themselves”**

John A. Pojman  
 Professor of Macromolecular Science  
 Department of Chemistry  
 Louisiana State University

*Co-sponsored by the Institute for the Development of Education  
 in the Advanced Sciences (IDEAS) of Hofstra University*

- 8:30 a.m.-3 p.m.**      **CONFERENCE REGISTRATION AND COFFEE**  
Greenhouse, Sondra and David S. Mack Student Center  
Lower Level, North Campus
- HIGH SCHOOL AND UNDERGRADUATE STUDENT RESEARCH POSTER SETUP**  
Individuals presenting posters may set up at this time in the Greenhouse.
- 9-9:30 a.m.**            **PATTERNS THAT FORM IN AN OSCILLATING CHEMICAL REACTION:  
A DEMONSTRATION**
- Sabrina G. Sobel  
Chair and Professor of Chemistry  
Department of Chemistry  
Hofstra University  
*Conference Co-Director*
- CONCURRENT SESSIONS**
- 9:30-11 a.m.**            **SESSION III-A: ELEMENTARY LEVEL CHEMISTRY WORKSHOP**
- Workshop Leader  
Sabrina G. Sobel
- 9:30-11 a.m.**            **SESSION IIIB: MIDDLE SCHOOL LEVEL CHEMISTRY WORKSHOP**
- Workshop Leader  
Irene Plonczak  
Assistant Professor of Curriculum and Teaching  
Director, Master of Arts Program in Elementary Education,  
Specialization in Math, Science and Technology  
Hofstra University  
*Conference Co-Director*
- 11 a.m.-Noon**            **HIGH SCHOOL AND UNDERGRADUATE STUDENT RESEARCH POSTER SESSION**
- Noon-1:15 p.m.**        **LUNCH** (*on your own*)

1:15-2:30 p.m.

**SESSION IV: HIGH SCHOOL RESEARCH:  
IN HIGH SCHOOL AND AT HOST INSTITUTIONS**

Discussion Leaders

**Nanette M. Wachter**

Associate Professor of Chemistry  
Department of Chemistry  
Hofstra University

**Angela Lukaszewski**

Adjunct Associate Professor of Physics  
Department of Physics and Astronomy  
Hofstra University

*and*

Research Facilitator  
Syosset High School  
Syosset, NY

2:30-3 p.m.

**COFFEE BREAK**

3-4 p.m.

**SESSION V: THE UNDERGRADUATE RESEARCH EXPERIENCE**

**Stephen Chaterpaul\***

Ph.D. Candidate in Chemistry  
Stony Brook University

**Allison Haigney**

Ph.D. Candidate in Chemistry  
Stony Brook University

**Elizabeth Russell\***

Ph.D. Candidate in Mathematics  
Boston University

*\*Participated in NSF-funded summer research experience*

4 p.m.

**CLOSING RECEPTION**

**Sabrina G. Sobel**

**Irene Plonczak**

**Harold M. Hastings**

*A Professional Development Certificate for participation in this  
conference will be mailed upon request.*

# CONFERENCE REGISTRATION FORM

Mail or fax to:

## The Science of Patterns and Colors

Hofstra Cultural Center  
243 Gallon Wing  
113 Hofstra University  
Hempstead, NY 11549-1130  
Tel: (516) 463-5669  
Fax: (516) 463-4793

Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Affiliation \_\_\_\_\_

Telephone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

### Method of payment:

Enclosed is a check in the amount of \$ \_\_\_\_\_  
payable to **Hofstra University Science Conference**

MasterCard\*       Visa\*      Amount: \$ \_\_\_\_\_

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\*Please add \$3 handling fee for credit card orders.

**Hofstra University is 100-percent program accessible to persons with disabilities.**

**Cancellations:** A \$15 administrative fee will be deducted from registration refunds; however, notice in writing must be received by October 16, 2008.

**Returned Checks:** A \$25 handling fee (official bank policy) will be charged for returned checks.

## CONFERENCE EVENTS AND FEES

POSTER PRESENTATION\*       YES       NO

WORKSHOP ATTENDANCE       ELEMENTARY SCHOOL       MIDDLE SCHOOL

REGISTRATION FEE: **\$20**

NO. OF PERSONS \_\_\_\_\_

TOTAL AMOUNT \$ \_\_\_\_\_

All events (with the exception of meals) are FREE to Hofstra students, faculty and staff upon presentation of a current HofstraCard.

\*Please send a title, abstract, authors and name of presenter to [Sabrina.G.Sobel@hofstra.edu](mailto:Sabrina.G.Sobel@hofstra.edu) by October 9, 2008, for inclusion in the final program.

## LOCATION OF HOFSTRA UNIVERSITY

**HOFSTRA UNIVERSITY** is located in Hempstead, Long Island, New York, about 25 miles east of New York City, less than an hour away by train or automobile. The Long Island Rail Road (LIRR) has frequent trains to the Hempstead Station and the Mineola Station from Pennsylvania Station, located at 34th Street and 7th Avenue, New York City, as well as from the Flatbush Avenue Station in Brooklyn, New York. Use local taxi service to the Hofstra campus.

### LOCAL TAXI SERVICE:

All Island Taxi Service	(516) 481-1111
Hempstead Taxi	(516) 489-4460
Pub Taxi Service	(516) 483-4433
Ollie's Airport Service	(516) 437-0505
	(516) 352-6633
	(718) 229-5454

**BY CAR:** Travel on the Long Island Expressway to exit 38, Northern State Parkway to Meadowbrook Parkway South (exit 31A), or Southern State Parkway to Meadowbrook Parkway North (exit 22N). Take Meadowbrook Parkway to exit M4 (Hempstead Turnpike). Proceed west on Hempstead Turnpike (Route 24W) to the Hofstra campus (approximately one mile).

### FOR FURTHER INFORMATION, CONTACT: HOFSTRA CULTURAL CENTER

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Hempstead, NY 11549-1130  
Tel: (516) 463-5669; Fax: (516) 463-4793  
E-mail: [hofculctr@hofstra.edu](mailto:hofculctr@hofstra.edu)  
[hofstra.edu/culture](http://hofstra.edu/culture)

