

## LIST OF NEW MEMBERS AND ASSOCIATE MEMBERS

Susan E. Barnes	Ashwin B. Rao
Sally S. Bruce	Tithi D. Roy
Susan F. Heller-Zeisler	Michael B. Vogel
Claire M. Saundry	Lee L. Yu

## NIST SIGMA XI CHAPTER PRESIDENTS

Hans J. Oser	1976-77	Ronald G. Rehm	1991-92
John W. Rowen	1977-78	Edgar S. Etz	1992-93
H. Steffen Peiser	1978-79	Barbara C. Levin	1993-94
Karl G. Kessler	1979-80	Harry L. Rook	1994-95
Theodore V. Vorburger	1980-81	W. Robert Kelly	1995-96
Barbara F. Howell	1981-82	Robert D. Shull	1996-97
Edward L. Brady	1982-83	Dale E. Newbury	1997-98
James F. Schooley	1983-84	Daniel W. Lozier	1998-99
Anna C. Fraker	1984-85	William R. Ott	1999-00
Chris E. Kuyatt	1985-86	Robert A. Fletcher	2000-01
Lawrence H. Bennett	1986-87	Bert M. Coursey	2001-02
Howard E. Sorrows	1987-88	Gerald V. Blessing	2002-03
Marilyn E. Jacox	1988-89	Charles D. Ehrlich	2003-04
Johanna M. H. Levelt Sengers	1989-90	Alan H. Cookson	2004-05
Kenneth G. Kreider	1990-91	Magdalena Navarro	2005-06

## ACKNOWLEDGMENTS

### **CONGRATULATIONS TO:**

NIST staff selected as national **Sigma Xi Distinguished Lecturers: Alicia Clay** (Computer Security Division, ITL) and **Charles Fenimore** (Information Access Division, ITL).

### **MANY THANKS TO:**

Carolyn Camacho and Jayne Morrow (Biochemical Sciences Division) and Elizabeth Gentry (Weights and Measures Division) for serving as coaches to the Alpha and Beta teams in the Sally Ride Toy Challenge Competition. The teams created the OLYMPICS and BODY BUG games, respectively.

Dale Newbury (chairperson), Robert Fletcher, Abigail Lindstrom, Sam Margolis, Joseph Rice and Carl Simon for serving as **Montgomery Area Science Fair Sigma Xi Judges**, and to Joseph Conny (chairperson), Robert Myklebust and Gerry Blessing for serving as **Frederick County Science and Engineering Fair judges**.

## O'Donnell's Restaurant, Tuesday, May 23, 2006

### Annual Banquet Program

5:30 pm Social Hour (Cash Bar)

6:15 pm Dinner

7:00 pm Program

- Remarks & Introduction of Current Officers Magdalena Navarro
- Remarks by NIST Deputy Director Hratch G. Semerjian
- Remarks by the Incoming President Michael Gaitan
- Introduction of New Officers Michael Gaitan
- Introduction of New Members Barbara C. Levin
- Presentation of Awards

### **Outstanding Teacher Award**

*Joseph Conny*

**Michael Thompson** (Wootton High School)

### **Measurement Science Awards for High School Science Fairs**

*Joseph Conny*

Montgomery County  
**Sridar Ravi** (Watkins Mill High School)

Frederick County  
**Sean D. McCann** (Linganore High School)

### **Outstanding Post-Doctoral Presentation Awards**

*Barbara C. Levin*

**Willard Uhlig, Mikkel Andersen, Pierre Cladé, Changhyun Ryu**

### **Young Scientist Awards for Excellence in Scientific Research**

*Marilyn E. Jacox*

**Jason N. Crain** (Electron and Optical Physics Division, PL)  
**Christopher Stafford** (Polymers Division, MSEL)

### **Outstanding Service in Support of Research Scientists**

*Marilyn E. Jacox*

**Yamali Hernandez** (Center for Neutron Research, MSEL)

### **Outstanding Service to the NIST Sigma Xi Chapter**

*Magdalena Navarro*

**Sarah E. Bell** (Public and Business Affairs Office, OD)

### **Introduction of Speaker**

*Michael Gaitan*

**Zeev Rosenzweig** (University of New Orleans)

## **Sigma Xi, The Scientific Research Society**

National Institute of Standards and Technology Chapter



# 30th Annual Banquet

**Featured Speaker:**

**Prof. Zeev Rosenzweig**

**Department of Chemistry,  
University of New Orleans**

**Research in a Vortex**



*Prior to Hurricane Katrina Prof. Rosenzweig and his group were enjoying their research activities in the area of nano-materials in sunny New Orleans. The group was advancing research projects in the area of zinc sensing from pancreatic and neural cells, the development of biodegradable polymer nanoparticles for drug delivery applications, the use of magnetic nanoparticles in drug delivery and bioassays and the development of cellular assays based on the use of luminescent quantum dots. Then came the wind!!! Hurricane Katrina inflicted an incredible damage to the research infrastructure in the New Orleans area. Scientific instruments were destroyed, biological samples were gone, chemical samples were wiped out. Most importantly, faculty and students scattered all around the country and in some cases ended up abroad. Prof. Rosenzweig will describe his personal experience in the immediate aftermath of Hurricane Katrina and the steps he took to insure the viability of his research program including recent results from his group. He will also describe the current situation at the University of New Orleans and the future prospects for the department and the university.*

**O'Donnell's Restaurant**

**Tuesday, May 23, 2006**

**LIST OF 2005-2006 PRESENTATIONS AND SPEAKERS**

***Fun Times at the NIST Center for Neutron Research***

Seung-Hun Lee, University of Virginia (Department of Physics)  
227/A202, October 4, 2005

***Dynamics of Large Deformations in Glassy Solids: Why Structural Engineers May Need New Ideas in Nonequilibrium Physics***

James S. Langer, University of California (Department of Physics)  
101/Lect. D, October 27, 2005

***Quantitative Cell Biology in the Cell and Tissue Measurements Group at NIST***

John T. Elliott, NIST (Biochemical Sciences Division)  
101/Lect. B, November 10, 2005

***Statistical Approaches in the NIST World Trade Center Analysis***

James J. Filliben, NIST (Statistical Engineering Division)  
101/Green Auditorium, November 22, 2005

***Crazy Ideas in Science\****

Robert Ehrlich, George Mason University (Department of Physics)  
101/Green Auditorium, January 13, 2006

***13<sup>th</sup> Annual Post-Doctoral Poster Presentation***

Barbara C. Levin, Chair  
Lecture Rooms A & B, February 17, 2006

***Engaging Young Minds with Science\*\****

Richard Berg, University of Maryland (Department of Physics)  
101/Green Auditorium, February 28, 2006

***The United States National Gem Collection: The Hope Diamond and More***

Jeffrey Post, Smithsonian Institution (National Gem and Mineral Collection)  
101/Green Auditorium, March 24, 2006

***International Standards and Innovation – What are the Linkages?***

Mary H. Saunders, NIST (Standards Services Division)  
101/Lect. B, April 14, 2006

•A joint event with the NIST Colloquium Series\*  
•A joint event with the NIST Committee for Women\*\*

**OFFICERS AND COMMITTEES**

	2005-2006	2006-2007
<b>Executive Committee</b> President President-Elect Secretary Treasurer Past President Web Master Headquarters Liaison	Magdalena Navarro (2006) Michael Gaitan (2007) Bryant Nelson (2007) Laurie Locascio (2007) Alan H. Cookson (2005) Yuqin Zong Magdalena Navarro (International Committee) 	Michael Gaitan (2007) John Slotwinski (2008) Bryant Nelson (2007) Laurie Locascio (2007) Magdalena Navarro (2006) Yuqin Zong Magdalena Navarro (International Committee) 
<b>Nominations Committee</b>	Abigail Lindstrom (2007, Chair) Nicholas Ritchie (2008) Magdalena Navarro ( <i>ex officio</i> ) Ambler Thompson (2006)	Abigail Lindstrom (2007, Chair) Nicholas Ritchie (2008) Magdalena Navarro ( <i>ex officio</i> ) Ambler Thompson (2006)
<b>Admissions Committee</b>	W. Robert Kelly (2008, Chair) Michael Gaitan (2005) Barbara C. Levin (2006)	W. Robert Kelly (2008, Chair) Michael Gaitan Barbara C. Levin (2006)
<b>Education Committee</b> (Open to all Members and Associate Members)	Dale Newbury (2008, Chair) John Blendell John A. Small W. Robert Kelly Abigail Lindstrom Joseph M. Conny	Dale Newbury (2008, Chair) John Blendell Carol A. Handwerker W. Robert Kelly Abigail Lindstrom Joseph Conny
<b>Program Committee</b>	Michael Gaitan (Chair) Gerald V. Blessing Charles D. Ehrlich Marcia Holden Daniel W. Lozier	Michael Gaitan (Chair) Gerald V. Blessing Charles D. Ehrlich Marcia Holden Daniel W. Lozier
<b>Awards Committee</b>	Marilyn E. Jacox (Chair) Robert A. Fletcher Kenneth G. Kreider Theodore V. Vorburger	Marilyn E. Jacox (Chair) (Members to be appointed)
<b>Postdoctoral Poster Presentation Committee</b> (Open to all Members and Associate Members)	Barbara C. Levin (Chair) Robert A. Fletcher Curt Richter Edgar Etz W. Robert Kelly	Barbara C. Levin (Chair) Robert A. Fletcher Curt Richter Edgar Etz W. Robert Kelly