

LIST OF NEW MEMBERS AND ASSOCIATE MEMBERS

Ana Ivelisse Aviles	Maria Elena Nadal	Jean S. Stephens
Samuel B. Howerton	Larry H. Reeker	Li-Piin Sung
Ajit Jillavenkatesa	Nicholas W. M. Ritchie	Yuqin Zong
Idan Mandelbaum		

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		

ACKNOWLEDGMENTS

CONGRATULATIONS TO:

We sponsored the **Lightning Chicas** team in the **Sally Ride TOYchallenge**: Jessica Aragon, Mariana Camacho, Virginia Chavez, Aysha Mahmood, Stephanie Martinez, Claire Paz, Olga Paz, and Blanca Sanchez from Stedwick ES, Neelsville MS and Forest Oak MS. Their coach is Carolyn Camacho and assistant coach is Beth King. The Chicas were selected as finalists to compete in the East Coast National Showcase on May 7 at the Sigma Xi Center in Research Triangle Park, N.C. Their toy is named "DISASTER!".

NIST staff selected as national **Sigma Xi Distinguished Lecturers**: Alicia Clay (ITL), Charles Fenimore (ITL), and Albert Paul (MSEL).

MANY THANKS TO:

Edgar Etz, Dale Newbury, Richard Lindstrom, Nicholas Ritchie, Marc Gurau, Abigail Lindstrom, and Pamela Lindstrom for serving as **Montgomery Area Science Fair Sigma Xi Judges**, and to Gerald Blessing and Joseph Conny for serving as **Frederick County Science Fair judges**.

The Willow Tree Inn, Tuesday, May 10, 2005

Annual Banquet Program

5:30 pm Social Hour (Cash Bar)
5:45 pm NIST Trio (Jim St. Pierre, Clare Allocca and John Libert)
6:00 pm Toy Challenge Presentation
6:30 pm Dinner
7:15 pm Program

- Remarks & Introduction of Current Officers Alan H. Cookson
- Remarks by NIST Acting Director Hratch G. Semerjian
- Remarks by the Incoming President Magdalena Navarro
- Introduction of New Officers Magdalena Navarro
- Introduction of New Members W. Robert Kelly
- Presentation of Awards

Outstanding Teacher Award

Alan H. Cookson for Angela R. Hight-Walker

Martin Patt (Wootton High School)

Measurement Science Awards for High School Science Fairs

Dale E. Newbury

Montgomery County
Kristina Yang (Montgomery Blair High School)
Andrew Mertz (Magruder High School)
Frederick County
Emily Gupta (Walkersville High School)

Outstanding Post-doctoral Presentation Awards

Barbara C. Levin

Hans Pieter Mumm (Ionizing Radiation Division, NCNR, PL)

Young Scientist Awards for Excellence in Scientific Research

Marilyn E. Jacox

John T. Elliott (Biotechnology Division, CSTL)

Outstanding Service in Support of Research Scientists

Marilyn E. Jacox

David R. Kelley (Metallurgy Division, MSEL)

Outstanding Service to the NIST Sigma Xi Chapter

Alan H. Cookson

Ellyn S. Beary (Laboratory Office, CSTL)

Introduction of Speaker

Magdalena Navarro

Eric H. Cline (The George Washington University)

Sigma Xi, The Scientific Research Society

National Institute of Standards and Technology Chapter

29th Annual Banquet

Featured Speaker:

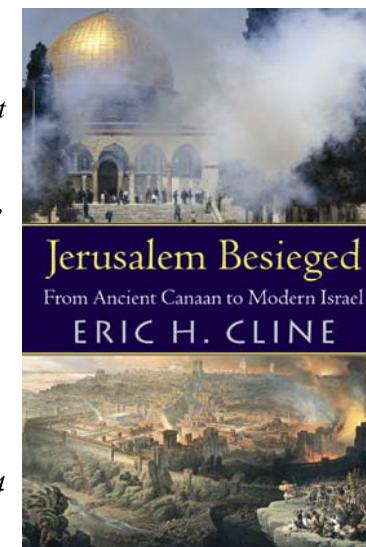
Prof. Eric H. Cline

**Dept. of Classical and Semitic Lang. and Lit.,
The George Washington University**

JERUSALEM BESIEGED: 4000 YEARS OF CONFLICT IN THE CITY OF PEACE

Jerusalem, whose name to some means the 'City of Peace,' has been anything but peaceful during the past four millennia. There have been at least 118 separate conflicts in and for this city, ranging from local religious struggles to strategic military

campaigns. Jerusalem has been destroyed completely at least twice, besieged 23 times, attacked an additional 52 times, captured and recaptured 44 times, experienced 20 revolts and innumerable riots, and has had at least five separate periods of violent terrorist attacks during the past century. This talk will cover recent archaeological discoveries to illustrate how archaeology, politics, and nationalism are frequently linked in the troubled environment of the Middle East today, especially when ancient conflicts and their archaeology are used as propaganda by modern military and political leaders.



Willow Tree Inn

Tuesday, May 10, 2005

LIST OF 2004-2005 PRESENTATIONS AND SPEAKERS

Rebuilding the Iraqi Fire Service

Monte Fitch, Assistant Fire and Rescue Chief (ret.) (Montgomery County, Maryland)
Green Auditorium, September 13, 2004

Science and Technology in Global Foreign Policy

George H. Atkinson, Science Adviser to the Secretary of State (USA)
Green Auditorium, October 13, 2004

Cold Atoms in Optical Lattices: Doing Condensed Matter Physics

Using Atomic Physics Tools

Trey Porto (PL, NIST)
Green Auditorium, November 30, 2004

How the Laser Came to Be: A Christmas Lecture*

Anthony E. Siegman, Ginzton Laboratory of Engineering and Applied Physics (Stanford University)
Green Auditorium, December 17, 2004

Cold Fusion: Problems, Progress and Prospects

David J. Nagel (The George Washington University)
Green Auditorium, January 14, 2005

12th Annual Post-Doctoral Poster Presentation

Barbara C. Levin, Chair
Hall of Flags, February 24, 2005

Extrasolar Planets and the Search for Other Earths

Sara Seager (Carnegie Institution of Washington)
Green Auditorium, March 4, 2005

Redefinition of the Kilogram: A Decision Whose Time Has Come

Peter Mohr and Edwin Williams (PL and EEEL, NIST)
Green Auditorium, March 25, 2005

Does the Everyday World Really Obey Quantum Mechanics?*

Anthony J. Leggett, 2003 Nobel Laureate in Physics (University of Illinois, Urbana-Champaign)
Green Auditorium, March 28, 2005

Jerusalem Besieged: 4000 Years of Conflict in the City of Peace

Eric H. Cline, Dept. of Classical and Semitic Lang. and Lit. (The George Washington University)
2005 NIST Sigma Xi Banquet Speaker, May 10, 2005

OFFICERS AND COMMITTEES

	2004-2005	2005-2006
<p>Executive Committee President President-Elect Secretary Treasurer Past President Web Master Headquarters Liaison</p>	<p>Alan H. Cookson (2005) Magdalena Navarro (2006) Karl Irikura (2005) Laurie Locascio (2005) Charles D. Ehrlich (2004) Yuqin Zong Magdalena Navarro (International Committee)</p>  <p>Alan H. Cookson</p>	<p>Magdalena Navarro (2006) Michael Gaitan (2007) Bryant Nelson (2007) Laurie Locascio (2007) Alan H. Cookson (2005) Yuqin Zong Magdalena Navarro (International Committee)</p>  <p>Magdalena Navarro</p>
<p>Nominations Committee</p>	<p>Abigail Lindstrom (2007, Chair) Michael P. Casassa (2005) Laurie Locascio (2006) Alan H. Cookson (<i>ex officio</i>) Mary Satterfield (2006) Ambler Thompson (2006)</p>	<p>Abigail Lindstrom (2007, Chair) Nicholas Ritchie (2008) Laurie Locascio (2006) Magdalena Navarro (<i>ex officio</i>) Mary Satterfield (2006) Ambler Thompson (2006)</p>
<p>Admissions Committee</p>	<p>W. Robert Kelly (Chair) Michael Gaitan (2005) Mike Moldover (2006) Barbara C. Levin (2006) Joe Rice (2006)</p>	<p>W. Robert Kelly (2008, Chair) Michael Gaitan (2005) Mike Moldover (2006) Barbara C. Levin (2006) Joe Rice (2006)</p>
<p>Education Committee (Open to all Members and Associate Members)</p>	<p>Angela R. Hight-Walker (Chair) John Blendell John R. Maurey Gerald V. Blessing Robert L. Myklebust Julia Y. Chan Dale E. Newbury Carol A. Handwerker Catherine D. O'Connell Jack J. Hsia Robert D. Shull W. Robert Kelly John A. Small</p>	<p>Dale Newbury (2008, Chair) John Blendell John R. Maurey Carol A. Handwerker Robert L. Myklebust W. Robert Kelly Robert D. Shull Abigail Lindstrom (2008) John A. Small</p>
<p>Program Committee</p>	<p>Magdalena Navarro (Chair) Charles D. Ehrlich William R. Ott Daniel W. Lozier Dale E. Newbury Robert D. Shull Magdalena Navarro Gerald V. Blessing</p>	<p>Michael Gaitan (Chair) Charles D. Ehrlich William R. Ott Daniel W. Lozier Dale E. Newbury Robert D. Shull Magdalena Navarro Gerald V. Blessing</p>
<p>Awards Committee</p>	<p>Marilyn E. Jacox (Chair) Kenneth G. Kreider Daniel W. Lozier Robert D. Shull</p>	<p>Marilyn E. Jacox (Chair) (Members to be appointed)</p>
<p>Postdoctoral Poster Presentation Committee (Open to all Members and Associate Members)</p>	<p>Barbara C. Levin (Chair) Robert A. Fletcher Daniel W. Lozier Karl Irikura Magdalena Navarro W. Robert Kelly Yuqin Zong</p>	<p>Barbara C. Levin (Chair) Robert A. Fletcher Daniel W. Lozier Karl Irikura Magdalena Navarro W. Robert Kelly Yuqin Zong</p>

* A joint event with the NIST Colloquium Series