

### Falke Elected President-Elect Eight Society Members Elected to Council

#### President-Elect



Joseph J. Falke

*Joseph J. Falke*, University of Colorado, Boulder, was elected President-elect of the Biophysical Society. Falke will assume that office at the 2006 Annual Meeting in Salt Lake City and begin his term as President at the Business Meeting of the 2007 Annual Meeting in Baltimore.

Because of a tie vote, eight Society members were elected to Council this year. They are: *Ana Maria Gomez*, CNRS INSERM; *Steven Gross*, University of California, Irvine; *Dorothee Kern*, Brandeis University; *Jennifer Lippincott-Schwartz*, NICHD, NIH; *David Piston*, Vanderbilt University; *Rajini Rao*, Johns Hopkins University; *Lynne*

*Regan*, Yale University; and *Gregory Reinhart*, Texas A&M University. Each will serve three-year terms on Council beginning at the 2006 Annual Meeting.

Twenty-eight percent of eligible members cast votes in the 2005 election. The Society is indebted to all the excellent candidates who ran for these offices and congratulates those elected.

Society members may volunteer to be considered for Council or may nominate others for consideration by completing and submitting the form found on page 23 and also available at <http://www.biophysics.org/volunteer.pdf>. All forms must be received in the Society Office by November 15, 2005, for consideration for the 2006 ballots.

#### Councilors



Ana Maria Gomez



Steven Gross



Dorothee Kern



Jennifer Lippincott-Schwartz



David Piston



Rajini Rao



Lynne Regan



Gregory Reinhart

- 2005 Society Election Results . . . . . 1
- Awards . . . . . 2
- Biophysicist in Profile . . . . . 3
- Annual Meeting Summary . . . . . 4
- Membrane Biophysics Subgroup . . . . . 7
- Bioenergetics Subgroup . . . . . 7
- Summer Biophysics Course . . . . . 8
- Opportunities . . . . . 12
- Society Donors . . . . . 13
- Public Affairs . . . . . 18
- How to Get a First Grant . . . . . 19
- Student Housing Form . . . . . 21
- Upcoming Events . . . . . 24

### Annual Meeting Deadlines

Room Sharing  
Reservations  
OCTOBER 17

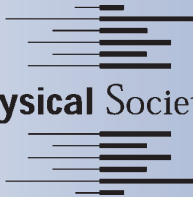
Abstract Withdrawal  
OCTOBER 24

Student Housing  
Reservations  
NOVEMBER 4

Early Registration  
DECEMBER 9

Childcare Registration  
JANUARY 19, 2006

General Housing  
Reservations  
JANUARY 26, 2006



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The Biophysical Society Newsletter (ISSN 0006-3495) is published six times per year January/February, March/April, May/June, July/August, September/October, and November/December by the Biophysical Society, 9650 Rockville Pike, Bethesda, Maryland 20814-3998. Distributed to USA members and other countries at no cost. Canadian GST No. 898477062. Postmaster: Send address changes to Biophysical Society, 9650 Rockville Pike, Bethesda, MD 20814-3998.

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## Spudich Receives First U.S. Genomics Single-Molecule Biology Award



*James Spudich*, of Stanford University, will receive the first US Genomics Award for Outstanding Investigator in the Field of Single Molecule Biology. Spudich was chosen for his longstanding research interest in the molecular basis of cell motility, specifically the molecular basis of energy transduction that leads to ATP-driven myosin movement on actin. The award will be presented at the Monday evening Awards Ceremony in Salt Lake City. Spudich will also speak in the Awards Symposium on Tuesday, February 20.

## Hinderliter Named Dayhoff Awardee

*Anne Hinderliter*, of North Dakota State University, will receive the 2006 Margaret Oakley Dayhoff Award at the Awards Ceremony in Salt Lake City. This award is given to a junior woman scientist of very high promise in the field of biophysics who has not yet reached a position of high recognition within the structures of academic society. The award also honors the memory of Margaret Dayhoff, former President of the Biophysical Society, Professor of Biophysics at Georgetown University, and Director of Research at the National Biomedical Research Foundation. Anne Hinderliter is being honored for her research in the area of membrane biophysics and cell signaling, and for her potential contribution to deciphering the mechanisms of the lipid-modulated signal transduction. She will give a scientific presentation during the Awards Symposium on Tuesday, February 20.

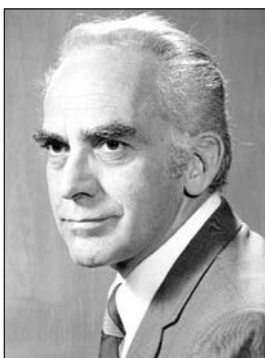
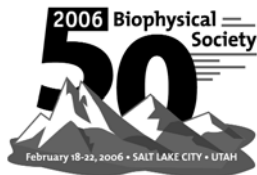


## Does Your Library Subscribe to *Biophysical Journal*?

As the field of biophysics grows, BJ will continue to publish the most up-to-date research available. It is crucial to the field that libraries include BJ in their stable of basic research must-have journals.

Complete a library recommendation form at <http://www.biophysics.org/members/> and let your librarian see what's been missing.

## Biophysicists in Profile



Courtesy of the Lawrence Berkeley National Laboratory.

### William E. Siri

Among the nearly 500 attendees of the 1957 First Biophysical Conference was *William E. Siri*, who presented a paper entitled "*Determination of Total Fat, Water, Protein, and Mineral in the Human Body*". His story typifies the diversity inherent in the group that attended this first meeting and in the field of biophysics in general. Born in Philadelphia, Pennsylvania, on January 2, 1919, Siri became known as one of the world's foremost mountain-climbing scientists, spending much of his life focusing on how the body reacts to extreme situations. According to his wife, *Jean Siri*, he was a "scientist, adventurer, and mountaineer."

A physicist by training, Siri became a research engineer on the Manhattan Project in 1943, helping to create the atomic bomb. He did not enjoy that work and soon after the war ended, he joined the Lawrence Berkeley National Laboratory, later becoming a leading bio-

physicist at its Donner Laboratory. At Donner, he worked on the application of radioisotopes to biology and medicine. There, Siri teamed up with *John Lawrence*, a medical physicist known as the father of nuclear medicine, to research technologies to help the human body.

It was this research that led Siri to the mountains, where he spent the next twenty years on climbing expeditions to test the effects of altitude and oxygen deprivation on the human body. His interest in biophysics developed, according to his wife, "because he loved mountains and could use blood and urine studies as part of it—and would be funded by NSF or ONR and NASA." Studying how altitude affects dizziness, appetite and red blood cell counts, he used himself as a guinea pig for most of the tests. By tying in climbing with physiology, he remained an integral part of the Lawrence Berkeley Lab. "On every expedition,

**"Studying how altitude affects dizziness, appetite and red blood cell counts, he used himself as a guinea pig for most of the tests."**

mountains or Antarctica," says Jean Siri, "he did physiological studies and published papers on the work."

Siri climbed mountains in the Peruvian Andes, Antarctica, the Sierras, the Himalayan Mountains and many other locations. He was co-leader of the first American expedition to successfully climb Mount Everest, and once even helped rescue *Sir Edmund Hillary's* climbing team from an icy crevice.

His love of nature extended to all aspects of his life. Siri hiked the Sierras with famed photographer *Ansel Adams*, and in 1964 was elected National

President of the Sierra Club. During his Presidency he brought the club from a wilderness group to an environmental activist force. He remained

active in the club for decades, receiving its highest accolade, the John Muir Award, in 1994.

Though Siri spent most of his time studying the human body, his research interests also included analyzing water intake of grazing sheep and determining environmental consequences of energy usage and nuclear power. After retiring from the University of California, Berkeley in 1982, the lifetime environmentalist helped many ecological protection groups from the Bay Institute, of which he never missed a meeting, to the Save the Bay Association.

Siri died in 2004 at the age of 85 after a decade-long battle with Alzheimer's disease.



*William Siri* and wife, *Jean Siri*.  
(San Francisco Chronicle file photo, 2965, by *Duke Downey*.)

*(Continued on page 10.)*

# Annual Meeting Symposia, Workshop, and Subgroup Schedule

## Symposia

*Sunday, February 19*

8:15 AM – 10:15 AM

### Bacterial Chemotaxis and Motility

*Richard M. Berry*, Oxford University, Chair  
*David F. Blair*, University of Utah  
*Makoto Miyata*, Osaka City University  
*Jonathan S. Parkinson*, University of Utah

8:15 AM – 10:15 AM

### Nucleosome Structure, Dynamics, and Function

*Jon Widom*, Northwestern University, Chair  
*Karolin Luger*, Colorado State University  
*Geeta Narlikar*, University of California,  
San Francisco  
*Tom Owen-Hughes*, University of Dundee

10:45 AM – 12:45 PM

### 50th Annual Meeting Symposium: Biophysics from Molecules to Cells

*Steven M. Block*, Stanford University, Chair  
*David R. Davies*, NIDDK, NIH  
*Thomas D. Pollard*, Yale University  
*Peter K. Sorger*, Massachusetts Institute of  
Technology  
*Xiaowei Zhuang*, Harvard University

4:00 PM – 6:00 PM

### Rearranging DNA Strands in Recombination, Replication, and Repair

*Tom Ellenberger*, Harvard University Medical  
School, Chair  
*Nynke H. Dekker*, Delft University of  
Technology  
*Stephen C. Kowalczykowski*, University of  
California, Davis  
*Phoebe A. Rice*, University of Chicago

4:00 PM – 6:00 PM

### Self-Assembly of Cellular Architecture

*Eva Nogales*, University of California, Berkeley,  
Chair  
*Gary G. Borisy*, Northwestern University  
*Tomas Kirchhausen*, Harvard University Medical  
School  
*Keiichi Namba*, Osaka City University

*Monday, February 20*

8:15 AM – 10:15 AM

### Energy Transduction and Subunit Coordination in AAA and Related Motor Enzymes

*Tania Baker*, Massachusetts Institute of  
Technology, Chair  
*Vincent Croquette*, ENS, Paris  
*Dale Wigley*, London Research Institute  
Additional speakers to be announced.

8:15 AM – 10:15 AM

### Structure by Design: From Single Proteins to Nanostructures

*Ruth Nussinov*, NCI, NIH, and Tel Aviv  
University, Chair  
*David Baker*, University of Washington  
*Luc Jaeger*, University of California,  
Santa Barbara  
*Nadrian C. Seeman*, New York University

10:45 AM – 12:45 PM

### New and Notable

Additional information to be announced

4:00 PM – 6:00 PM

### Dynamics in Enzyme Function

*Judith P. Klinman*, University of California,  
Berkeley, Chair  
*Sharon Hammes-Schiffer*, Pennsylvania State  
University  
*Joseph D. Puglisi*, Stanford University  
*Peter E. Wright*, The Scripps Research Institute

4:00 PM – 6:00 PM

### Small-Scale Systems Biology

*Garrett Odell*, University of Washington, Chair  
*Steve Plimpton*, Sandia National Laboratories  
*Michael Elowitz*, California Institute of  
Technology  
Additional speakers to be announced.

*Tuesday, February 21*

8:15 AM – 10:15 AM

### RNA Folding and Unfolding

*Anna M. Pyle*, Yale University, Chair  
*Daniel Herschlag*, Stanford University  
*Nils G. Walter*, University of Michigan  
*Sarah Woodson*, Johns Hopkins University

8:15 AM – 10:15 AM

### Visualizing Molecular Function in Living Cells

*Robert Singer*, Albert Einstein College of  
Medicine, Chair  
*Akihiro Kusumi*, Kyoto University  
*Siegfried M. Musser*, Texas A&M University,  
Health Science Center  
*Clare M. Waterman-Storer*, The Scripps Research  
Institute

10:45 AM – 12:45 PM

### Awards Symposium

Speakers to be announced.

4:00 PM – 6:00 PM

### Biophysics of Bacterial DNA Segregation and Cell Division

*Harold P. Erickson*, Duke University, Chair  
*Nicholas Cozzarelli*, University of California,  
Berkeley  
*Jeff Errington*, Oxford University  
*R. Dyche Mullins*, University of California,  
San Francisco  
Additional speakers to be announced.

4:00 PM – 6:00 PM

### Structure-Function Relationships between Ion Channels and Ion Transporters

*David C. Gadsby*, Rockefeller University, Chair  
*Michael P. Kavanaugh*, University of Montana  
*Christopher Miller*, Brandeis University  
*Paola Vergani*, University College of London

*Wednesday, February 22*

8:15 AM – 10:15 AM

### Electron Transfer-driven Energy Transduction

*Robert R. Gennis*, University of Illinois, Chair  
*James Barber*, Imperial College of London  
*Marilyn Gunner*, City College of New York  
*Carola Hunte*, Max Planck Institute, Frankfurt

8:15 AM – 10:15 AM

**Statistical Mechanical Insights into Biological Function***Robert Phipps*, California Institute of Technology, Chair*Nick Buchler*, Rockefeller University*Frank Jülicher*, Max Planck Institute, Dresden*Pierre Sens*, Institute Curie, Paris

10:45 AM – 12:45 PM

**Myosins: Diversity and Mechanism***Richard E. Cheney*, University of North Carolina, Chair*Anne M. Houdusse*, Institute Curie, Paris*Ron Rock*, University of Chicago*Kathleen M. Trybus*, University of Vermont

10:45 AM – 12:45 PM

**Protein Folding and Refolding in Biology***Peter Gittins*, University of Illinois, Chicago, Chair*Robert P. Blumenthal*, NCI, NIH*Carol Deutsch*, University of Pennsylvania

Additional speakers to be announced.

**Workshops**

Workshops will be held Sunday and Tuesday evenings, 7:30 PM – 9:30 PM.

**Sunday, February 19****Analyzing Submicrometer Structure and Motion in Light Microscopy***Jan T. Liphardt*, University of California, Berkeley, Chair*Enrico Gratton*, University of Illinois*Mats Gustafsson*, University of California, San Francisco*Stefan W. Hell*, University of Heidelberg**Biophysics of Channelopathies***Frances M. Ashcroft*, Oxford University, Chair*Stephen C. Cannon*, University of Texas Southwestern Medical Center*Michael C. Sanguinetti*, University of Utah*Richard W. Tsien*, Stanford University**Visualizing Time-resolved Structures of Macromolecules and Complexes***Philip A. Anfinrud*, NIDDK, NIH, Chair*Michael D. Brenowitz*, Albert Einstein College of Medicine*Roger W. Craig*, University of Massachusetts Medical School

Additional speakers to be announced.

**Tuesday, February 21****Coarse-graining Methods for Biomolecular Structure and Dynamics***Gregory A. Voth*, University of Utah, Chair*Charles L. Brooks, III*, The Scripps Research Institute*Siewert-Jan Marrink*, University of Groningen*Michael Thorpe*, Arizona State University**Deducing Mechanisms from Single-Molecule Data: Channels to Enzymes***Taekjip Ha*, University of Illinois, Urbana, Chair*Ehud Y. Isacoff*, University of California, Berkeley*Karl L. Magleby*, University of Miami*Hiroyuki Noji*, University of Tokyo**Microfluidics in Biophysics Research***Steven R. Quake*, Stanford University, Chair*Robert H. Austin*, Princeton University*David Beebe*, University of Wisconsin, Madison*Rustem F. Ismagilov*, University of Chicago

The Salt Lake City TRAX light-rail is a free service between the Grand America Hotel and Convention Center.

**Subgroups**

All subgroup meetings will be held on Saturday, February 18.

**Bioenergetics***Marco Colombini*, University of Maryland, College Park, Subgroup Chair**Morning Symposium: Mitochondria and Regulation of the Cellular Energy State***Uwe Schlattner*, Swiss Federal Institute of Technology, and *Petra Dzeja*, Mayo Clinic and Foundation, Co-Chairs*Nissim Hay*, University of Chicago*Valdur Saks*, University Joseph Fourier, Grenoble*William Winder*, Brigham Young University**Afternoon Symposium: Systems Biology: Mitochondria are not Alone***Hartmut Woblrab*, Boston Biomedical Research Institute and Harvard Medical School, and *Svitlana Berezhna*, The Scripps Institute, Co-Chairs*Luis A. Nunes Amaral*, Northwestern University*Joseph Bass*, Northwestern University*\*Vamsi Mootha*, Harvard University*Arvind Ramanathan*, Broad Institute of Harvard University and Massachusetts Institute of Technology

\*Presentation is sponsored by the United Mitochondrial Disease Foundation

**Biological Fluorescence***Robert Clegg*, University of Illinois, Urbana, Subgroup Chair**Fluorescence in Biological Physics***Marcos Dantus*, Michigan State University*Elliot L. Elson*, University School of Medicine*J. Woodland Hastings*, Harvard University*Gerard Marriotti*, University of Wisconsin, Madison

(Continued on page 6.)

(Continued from page 5.)

### Membrane Biophysics

David Yue, Johns Hopkins University School of Medicine, Subgroup Chair

### Horizons for the Queen of Ion Transport: $Ca_v$ Calcium Channels

Daniel Minor, University of California, San Francisco

Henry Colecraft, Johns Hopkins University School of Medicine

Gerald Zamponi, University of Calgary

Diane Lipscombe, Brown University

Veit Flockerzi, Universität des Saarlandes

Richardo Dolmetsch, Stanford University

### Membrane Structure & Assembly

Leonid Chernomordik, NICHD, NIH Subgroup Chair

### Biological Membrane Fusion: Mechanisms and Intermediates

Michael Kozlov, Tel Aviv University

Felix Rey, Institut Pasteur

Gregory Melikyan, Rush College

Yeon-Kyun Shin, Iowa State University

Andreas Mayer, Université de Lausanne

Xiaowei Zhuang, Harvard University

### Onsite Child Care Services

The Biophysical Society sponsors excellent child care, provided again this year by KiddieCorp. The program is for children ages six months through 12 years and will be located at the Salt Lake City Marriott Downtown (directly across the street from the Salt Palace Convention Center). Snacks and beverages will be provided. Meals may be supplied by parents or purchased when checking in each day. The service is available to all meeting registrants, but pre-registration is required. The cost is \$10.00 per hour, per child (Regular attendees), \$7.00 per hour, per child (Postdoc attendees) and \$5.00 per hour, per child (Student attendees). There is a 2-hour per-day minimum required. The dates/hours of the children's program are as follows:

Saturday, February 18	8:00AM–6:00PM
Sunday, February 19	8:00AM–6:00PM
Monday, February 20	8:00AM–6:00PM and 7:30PM–MIDNIGHT
Tuesday, February 21	8:00AM–6:00PM
Wednesday, February 22	8:00AM–1:00PM

To access the preregistration form, visit <https://www.kiddiecorp.com/bpskids.htm>.

**THE PREREGISTRATION DEADLINE IS JANUARY 19, 2006.**

### Molecular Biophysics

Cynthia Stauffacher, Purdue University, Subgroup Chair

Xiaowei Zhuang, Harvard University

Felix Rey, Institut Pasteur

Yinling Li, University of Virginia

Gregory Melikyan, Rush College

Yeon-Kyun Shin, Iowa State University

Andreas Mayer, Université de Lausanne

### Biological Membrane Fusion: Mechanisms and Intermediates

Leonid V. Chernomordik, NICHD, NIH

Michael Kozlov, Tel Aviv University

### Special Annual Meeting Travel Rates

The Biophysical Society has made special arrangements with United Airlines, Budget Rent-A-Car, and Avis Rent-A-Car for special rates to meeting attendees. When making reservations, refer to the respective meeting ID number for extra savings.



800-521-4041

Meeting ID Number: 537TJ



800-331-1600

Avis Worldwide Discount Number: J906779



800-772-3773

Budget Convention Discount Number: U069706

## Membrane Biophysics Subgroup

### Call for Nominations for the Kenneth S. Cole Award

The Membrane Biophysics subgroup is soliciting nominations for the Kenneth S. Cole Award. This award is given annually to an investigator who has made a substantial contribution to our understanding of membrane biophysics. The award will be presented at the subgroup dinner following the Saturday afternoon symposium. Please note that any member of the Membrane Biophysics subgroup may nominate someone, and the recipient will be selected by the Group Chair and the Advisory Committee. Nominations, containing a brief statement of the qualifications of the nominee, should be received by November 1, 2005.

Nominations may be sent to the Chair (*David T. Yue*), Advisory Committee (*Deborah J. Nelson*, *Colin G. Nichols*, *Barbara E. Ehrlich*, or *Nael A. McCarty*), or subgroup Secretary/Treasurer (*Carol L. Beck*).

### Student Tickets to the Cole Award Dinner

To encourage participation in the subgroup, any student member of the Biophysical Society entering the SRAA student poster competition can receive a free ticket to the Cole Award Dinner. Additional free tickets will be available on a lottery basis to student members who do not enter the poster competition. The deadline for requesting student tickets is January 31, 2006 (send requests to [Carol.Beck@jefferson.edu](mailto:Carol.Beck@jefferson.edu)).

—*David T. Yue*, Chair and  
*Carol L. Beck*, Secretary/Treasurer

## Bioenergetics

The loss of *Stanley J. Korsmeyer*, Harvard Medical School, on March 31, 2005, deeply saddened many in the bioenergetics community, especially those interested in the role of mitochondria in apoptosis. Stan was a giant in the field. His pioneering work revolutionized the field. For several years the Biophysical Society meeting has had a self-assembled session on *Mitochondria and Apoptosis*. This year's session was so groundbreaking that a special issue of the *Journal of Bioenergetics and Biomembranes* (Vol. 37, #3) was devoted to a set of mini-reviews arising from the session. That issue is being dedicated to the memory of Korsmeyer.

—*Marco Colombini*, Chair



*Stanley J. Korsmeyer*

## 2005 Annual Meeting Questionnaire Drawing

The winners of a free registration to the 2006 Annual Meeting, drawn from those who completed the 2005 Annual Meeting questionnaire, are *Karoly Jakab* and *Michael Morales*. Thanks to everyone who completed the questionnaire. The information provided will be used when planning future meetings.



*Karoly Jakab*,  
University of Missouri,  
Columbia. Society  
member since 2003.



*Michael Morales*,  
State University of New  
York, Buffalo. Society  
member since 2001.

## Herman R. Branson Summer Course in Biophysics

The 2005 Branson Summer Course in Biophysics, sponsored by the Biophysical Society in collaboration with the National Society of Black Physicists (NSBP), was given at Boston University (BU) from June 16 - July 17, 2005.

Nine promising minority students — seven of them in their sophomore or junior years, two entering graduate school as seniors — were selected from roughly 20 applicants to take part in this five-week course.

The course entailed morning lectures on topics ranging from fundamental principles of thermodynamics and statistics in living systems, to cell physiology, protein structure and function, neurons and neuronal networks, membranes, ion channel mechanisms, molecular motors, and DNA structure. Other activities included seminars by leading biophysicists, discussions on a variety of topics in biophysics, four labs, three computer labs, two field trips in the Boston area, a workshop on preparing and giving scientific seminars, and final seminar presentations by the students on biophysical topics of their choice.

Students hailed from eight institutions of higher learning: Baylor, University of Texas, San Antonio, North Carolina A&T, Florida A&M, University of Puerto Rico, Northwestern University, UCLA, and Oakwood College. The majority of students had a strong background in biochemistry, physics, chemistry, or engineering with a remarkable level of knowledge about protein structure and function. This and the students' high level of intellectual curiosity and active participation in learning made the course a unique and very successful learning experience for students and instructors alike.

The lectures were ably designed and delivered by *Bernie Chasan*, Professor Emeritus of Physics at BU, with the enthusiastic assistance of *Mark Jack*, Assistant Professor of Physics at Florida A&M University, who also ran the computer labs, mentored students with problems/lab reports, and generally assisted Chasan. In addition to lectures and labs, Chasan and Jack led discussions each day on topics such as the origin of life from a biophysics perspective or the meaning of noise in biological systems. Review papers on discussion topics were distributed two days before each discussion. In addition, the students met regularly with Chasan and Jack to discuss problems and plan their final oral presentations.

Clearly, Chasan and Jack worked incredibly hard to make this year's course the success that it was, and they deserve our sincere thanks! In turn both enjoyed their time with this talented group. Jack, who hopes to be involved in this course next summer at Florida A&M University, comments in his course evaluation that working with Chasan and such "a great group of bright young women and

men...has truly been one of the personal highlights in my academic and professional career."

Lectures were also greatly enriched by nine seminars and discussions, and associated luncheons, and by invited speakers who captured the excitement of current biophysics research. This sparked enthusiasm in the students and helped them to envision themselves as biophysicists. As an example, a unanimously agreed-upon highlight was the afternoon lab visit to *Horatio Cantiello's* lab at Massachusetts General Hospital. The students especially enjoyed the hands-on demonstrations, including recording and analysis of electrical data and Cantiello's exposition of the significance of his research. This led one student from Oakwood College to undertake a research project in electrophysiology with a professor at Oakwood. Other seminar speakers and/or discussion leaders were: *George Langford*, Dartmouth College, *Ishita Mukerji*, Wesleyan University, *Karen Allen*, Boston University, *Barry Lentz*, University of North Carolina, *Ken Rothchild*, Boston University, *Jose Rizo-*



Back row from left: *Liz Russell-McKenzie* (Temple University, evaluator); *Jonathan Celli* (Boston University, physics graduate assistant); *Bernard Chasan* (Boston University, lecturer and course author). Front row: *Keri Wakefield*.

*Rey*, University of Texas Southwestern, *David DeRosier*, Brandeis University, and *Wilma Olson*, Rutgers University. *Liz Russell-McKenzie*, Temple University, the Course Evaluator contracted by the Society, comments that a very significant outcome of the course was that students "felt that they were privileged to have been given the opportunity to interact with researchers in the mainstream of biophysical research and that indeed such careers were not out of their reach." Kudos go to these biophysicists who gave willingly of their time to share their passion for biophysics with these students!

Feedback from the students and instructors was overwhelmingly positive, with the suggestion that a wireless network would have allowed for more time

to work on computer programs introduced in the computer labs. Russell-McKenzie is preparing a complete evaluation that will guide us in making this and other improvements in the future.

Also critical to the success of the course was the support and hard work of *Cynthia Brosman*, Interim Director of the BU Learning Resource Network, who organized everything locally such as welcome and final dinners, the seminar luncheons and housing for speakers, and *Jonathan Celli*, BU physics graduate student who served as teaching assistant. The excellent work of *Yvonne Cissel* in the Biophysical Society office is also greatly appreciated. She coordinated advertising and student recruitment, arranged travel for speakers and students, coordinated all

aspects of the course with Brosman and Chasan, managed the budget, and saw to ordering of computers and teaching materials. Finally, course funding was arranged by *Keith Jackson*, President of the NSBP, as an NIH-funded supplement to a NSF grant to the NSBP, on which Jackson is PI. We also appreciate the enthusiastic support of *Clifton Poodry*, MORE Program, and *James Cassatt*, Program Administrator, Cell Biology & Biophysics at NIGMS. They not only arranged for funding through the NSBP NSF grant but are helping us plan for possible future funding.

—*Barry Lentz*, Branson Course Director



*Grace Mbyirukina*, Oakwood College, now San Diego State



*Stan Chikando*, Northwestern University

## Herman R. Branson Summer Course



Back row from left: *Nick Fernandez*, *Quy Tran*, *Stan Chikando*, *Madinah Mohamed*, *Nepkin Osuan*, *Natalie del Hoyo Rivera*. Front row from left: *John Hakizimana* and *Barry Lentz*, course director.

(Continued from page 3.)



### Ernest C. Pollard

Although—or perhaps because—he was born in a remote part of China in 1906 to English missionaries, *Ernest C. Pollard* became determined by the age of 11 to become a scientist. His youth in China exposed him to the negative impact that superstition can have on people and on the land in which they live. Science, he believed, could change that.

Pollard graduated from Cambridge University in 1928 where he also received

his PhD in nuclear physics in 1932. In an oral history compiled by the IEEE, Pollard noted that he didn't choose nuclear physics; at the time there were simply no other options for him. Luckily, he liked it. He left England to take a position at Yale in 1933. Over the ensuing years, Pollard's research focused on how radiation affects cells and viruses, and on the repairing of radiation-induced cellular damage.

From 1941 to 1945, Pollard worked in the MIT Radiation Laboratory on radar development for use in World War II. He received a patent for Li'l Abner, radar used by the military to determine the altitude of enemies, but worked on many other projects including MEW, the moving target indicator. He later received a Citation of Merit from

**“Pollard also had the unique ability to obtain grant monies from numerous sources, which enabled his staff and students to research freely.”**

President *Truman* for his work during WWII.

During that time, Pollard thought about ways to use physical techniques to look at viruses and molecules. He returned to Yale where he founded its department of Biophysics in 1954 and served as its Chair until 1961. There he worked closely with *Richard Setlow*, then an Associate Professor and the Director of Undergraduate Students in both the Physics and Biophysics departments. "It was Ernie's great abilities as a teacher and

mentor that led to probably the most successful biophysics department in the world," says Setlow. Later, Pollard moved to Penn State University where

also there he founded a Department of Biophysics. Pollard remained at Penn until his retirement in 1971, after which he served as a research scholar at Duke University, University of Florida, and the National Institute of Environmental Health Sciences. Penn State established the Ernest C. Pollard Lecture in his honor.

Together with *Samuel Talbot*, *Kenneth Cole*, and *Otto Schmidt*, Pollard was a member of the Committee of Four that organized the 1957 National Biophysics Conference. *Ellis Kempner*, currently at the NIH, attended that first conference as a graduate student and remembers Pollard's contribution to the Society. "The Biophysical Society wouldn't exist without him," Kempner states, "he was one of the most powerful people in its founding." Pollard went on to serve as Biophysical Society president from 1960-1961, and Executive Council and Board member until 1972.



Founders at the 1981 Annual Meeting in Denver, Colorado. Pictured left to right: *Britton Chance*, *Ernest Pollard*, *A.K. Solomon*, *Andrew G. Szent-Gyorgyi*, *Les Lipitz*, and *Max Lauffer*.

*Donald Fluke* of Duke University was a graduate student of Pollard's. "Pollard was a deeply cultured, educated, empathetic person, loving music, good conversation, and good company," Fluke says. He is remembered for his efforts to promote science in general and the field of biophysics in particular. He had the ability to make the people around him excited, which came in handy when he was teaching. He considered himself a gifted teacher, and Setlow and others agree, he was that and more.

Pollard also had the unique ability to obtain grant monies from numerous sources, which enabled his staff and students to research freely. "It is obvious to me," says Setlow, "that without Ernie, I would not be where I am today—and the same goes for many other ex-faculty and students." He worked to make science interesting and accessible to all, including non-scientists. He even started a course at Penn State called "*Physics for Poets*."

Pollard also advocated the idea that scientists should become involved in public policy. In addition to his numerous scientific papers, Pollard published a novel in 1988 called *The Cataclysm: Just the Facts*. The novel showed how a group of average, ordinary Americans is capable of assembling, delivering and exploding a nuclear bomb in New York City. The novel went into gruesome detail about the consequences of this action. Pollard hoped that by describing what would happen, he could make the world aware of the horrors of nuclear war. He published his book through his own publishing company, Woodburn Press.

Pollard died of a stroke in 1997 at the age of 90.



### Kenneth S. Cole

The Biophysical Society Membrane Biophysics Subgroup awards a medal each year to the winner of the KS Cole Award. The design on the medal shows the simultaneous records of the action potential and impedance change in a squid axon, which was the most famous illustration produced by *Kenneth S. Cole*, known as '*Kacy*' to those closest to him.

Cole was born on July 10, 1900, in Ithaca, New York. From an early age, Cole showed a strong interest in electricity, collecting worn out parts from the local telephone company and manipulating them to produce shocks and sparks. Cole attended Oberlin College, but took some time off to work at the General Electric Research Laboratory in Schenectady, New York. It was at this lab that Cole met *Irving Langmuir*, whose work on surface films at an air-water interface influenced Cole to work on the surface membranes of living cells. Eventually Cole went back to Oberlin, and received his Bachelor's degree in Physics.

He went on to earn his PhD in 1926 from Cornell University. While at Cornell he developed an electron spectrograph to study the photographic action of electrons. Around that time, Cole began going to the Marine Biological

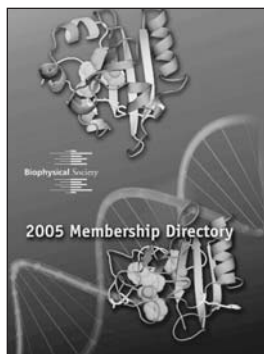
Laboratory in Woods Hole, Massachusetts, where he studied the squid axon. He also worked on heat production by the eggs of the sea urchin *Arbacia*. Slowly his interests shifted to biological objects that could be investigated by physical techniques, especially electrical. His talent for looking at organisms in this way did not go unnoticed. *William Knox Chandler*, who worked with Cole as a post doctorate from 1959 to 1961, and again from 1965 to 1966 explains that, "He was able to bring physical techniques to biology. He was one of the first people who did that in a specific way."

After receiving his PhD, Cole worked as a post doctorate at the National Research Council. His work there focused on the membrane capacity of sea-urchin eggs. He chose Harvard for his fellowship but continued to visit Woods Hole to conduct his experiments.

In 1929 Cole became an Assistant Professor at Columbia University in the Department of Physiology, and was soon promoted to Associate Professor. He also became a Consultant Physicist at the Presbyterian Hospital. While there, Cole calibrated radiotherapy machines, advised on safety when using cyclopropane as an anaesthetic (there had previously been an explosion in an operating room), overhauled a medical physiology laboratory, lectured, and collaborated with surgeons in developing an operation for aortic aneurysm using an electrically heated wire.

From 1941 until 1942, Cole took leave from Columbia and worked as a Guggenheim Foundation Fellow at the Institute for Advanced Study at Princeton. Still on leave, from 1942-1946, Cole was Principal Biophysicist at

*(Continued on page 20.)*



## Additional 2005 Biophysical Society Members

The names of the members listed below did not appear in the print Directory. Some joined or renewed their membership after the Directory's publication. Several were omitted in error.

- Paolo Bianchini*, University of Genoa  
*Olafur Grimur Bjornsson*, University of Iceland  
*Kristine Calloe*, Panum Insitute  
*Valentina Caorsi*, University of Genoa  
*Timothy Causgrove*, Texas A&M University, Corpus Christi  
*Pak-Lee Chau*, Institute Pasteur  
*Kejing Chen*, Johns Hopkins University  
*Wei-Chun Chin*, Florida State University  
*David J. Christini*, Weill Medical College, Cornell University  
*Patrick S. Doyle*, Massachusetts Institute of Technology  
*Ariel Escobar*, Texas Technology University Health Science Center  
*Alessandro Esposito*, European Neuroscience Institute  
*Rainer H.A. Fink*, University of Heidelberg  
*Clare E. Gallon*, Washington State University  
*Ehud Gazit*, Tel Aviv University  
*Whitney A. Hastings*, Johns Hopkins University  
*Ying Hu*, Cornell University  
*Weijun Huang*, University of Kansas  
*XiaoQin Huang*, University of Texas  
*Shin Ishii*, Nara Institute of Science Technology  
*Masayuki Iwamoto*, University Fukui  
*Whittaker W. James*, Oregon Health State University  
*Johnson I. Jutson*, Miami University  
*Young-Kee Kim*, Chungbuk National University  
*Petros Koumoutsakos*, ETH Zurich  
*Stephen Levene*, University of Texas, Dallas  
*Hai-Jui Lin*, University of Texas Southwestern Medical Center  
*Stina J. Lindman*, Lund University  
*Costas D. Maranas*, Pennsylvania State University  
*Davide Mazza*, University of Genoa  
*Kevin McHale*, California Institute of Technology  
*Alan Miller*, Touro University  
*Leonid Mirny*, Massachusetts Institute of Technology  
*Alexander Mogilner*, University of California  
*Christina I. Petersen*, Vanderbilt University  
*Sean Taylor Prigge*, Johns Hopkins University  
*Gopa Rakhit*, National Institutes of Health  
*Dino G. Salinas*, University of Diego Portales  
*Fausto Sanz*, University of Barcelona  
*Ramadan I. Sha'afi*, University of Connecticut Health Center  
*Adam Cohen Simonsen*, University of Southern Denmark  
*Jack Sullivan*, University of Buffalo  
*Setsuo Takatani*, Tokyo Medical & Dental University  
*Thomas M. Truskett*, University of Texas, Austin  
*Giuseppe Vicidomini*, University of Genoa  
*Robert W. Woody*, Colorado State University  
*Feifei Yan*, Oregon Health Science University  
*Chang-Guo Zhan*, University of Kentucky, College of Pharmacy



### Tenure-Stream Appointment in Biological Physics

The University of Toronto at Mississauga, Department of Chemical & Physical Sciences, invites applications for a tenure-stream position in Biological Physics at the rank of Assistant Professor, effective July 1, 2006. Applications will be accepted in all areas of biological physics but preference will be given to candidates with research interests in experimental molecular or cellular biological physics. Applicants should possess a Ph.D. in physics, a strong academic background, an excellent research record and potential for excellence in teaching. The successful candidate will be expected to conduct an active and innovative research program and be able to teach physics and biophysics courses at the undergraduate level and their research specialty at the graduate level. Salary will be commensurate with qualifications and experience.

The successful candidate will be located in the Department of Chemical & Physical Sciences, University of Toronto at Mississauga (UTM), and will also be a member of the graduate Department of Physics, University of Toronto. Further information can be found at <http://www.utm.utoronto.ca/cps>.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Applications will be accepted until November 1, 2005. Applicants should provide a curriculum vitae, a statement of teaching philosophy and interests, an outline of their proposed research, and should arrange to have three confidential letters of recommendation sent on their behalf to:

Professor G.W.K. Moore, Chair,  
 Biological Physics Search Committee,  
 Department of Chemical & Physical Sciences,  
 University of Toronto at Mississauga,  
 Mississauga, Ontario, Canada L5L 1C6

## Opportunities

### Burroughs Welcome Fund, Career Awards in Biomedical Sciences

*Up to 12 fellowships*

Deadline: October 3, 2005

<http://www.bwfund.org>

### Marshall Sherfield Fellowships

*Up to two post-doctoral Fellowships*

Deadline: October 10, 2005

<http://www.marshallscholarship.org/sherfield.html>

### National Human Genome Research Institute (NHGRI), Mentored Patient-Oriented Research Career Development Award

*Up to five consecutive 12-month awards*

Deadline: October 20, 2005

<http://www.genome.gov/grants/>

### The IIE Fulbright Graduate Study Abroad Program

Deadline: October 21, 2005

<http://www.iie.org/fulbright/>

## Society Donors

The Society gratefully acknowledges the many 2005 members listed on the following pages who made donations to the Society programs. The donations allow for growth each year in Student and International Travel Grants, Public Affairs, Awards, and other outreach activities.

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Barg, Sebastian	Bogomolni, Roberto	Castaneda, Carlos	Cupane, Antonio

## Directory Erratum

The following 2005 Student Research Achievement Award (SRAA) Recipient was omitted from the publication of the 2005 Membership Directory. We apologize for the oversight.

*Bradley C. Akitake*, University of Maryland, College Park

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Dawson, M. Joan	Felipe, Antonio	Gershman, Lewis	Hasson-Voloch, Aida
Debrunner, Peter	Ficker, Eckhard	Gervais, Patrick	Hatzimanikatis, Vassily
Decatur, Sean	Fidy, Judit	Giedroc, David	Hayes, Mark
Decker, Heinz	Finer-Moore, Janet	Giles, Wayne	Hazlett, Theodore
Deikus, Gintaras	Finzi, Laura	Gillespie, Peter	Heiss, Arthur
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Delgado, Carmen	Forgacs, Gabor	Ginsburg, Ann	Helrich, Carl
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Dixon, Clinton	Frauenfelder, Hans	Gonzalez, Ruben	Herzog, Walter
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Duclohier, Herve	French, Robert	Gray, Donald	Hill, Warren
Dvorak, Lubomir	French, Todd	Greeff, Nikolaus	Hingerty, Brian
Dzekunov, Sergey	Frieden, Carl	Green, Michael	Hisatome, Ichiro
Edelstein, Stuart	Frischknecht, Amalie	Greenbaum, Nancy	Hitchcock-DeGregori, Sarah
Edwards, Brian	Froehlich, Jeffrey	Greenfield, Norma	Ho, Chien
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Elliott, Richard	Funsten, Randolph	Grygon, Christine	Hogle, James
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Hunter, Peter	Kern, Dorothee	Lakaemper, Stefan	Malnasi-Csizmadia, Andras
Huxley, Virginia	Khorana, H. Gobind	Lambert, Nevin	Maloney, Peter
Iglic, Ales	Killian, J. Antoinette	Langowski, Joerg	Maluf, Nasib
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Inubushi, Toshiro	Kimura, Yoshiaki	Lauffer, Max	Mansson, Alf
Ishiwata, Shin'ichi	Kinosita, Kazuhiko	Lavalette, Daniel	Margulies, Kenneth
Ito, Takashi	Kirk, William	Lecar, Harold	Marko, John
Jakes, Karen	Kirschner, Leonard	Leckband, Deborah	Marszalek, Piotr
Jakobsson, Eric	Kitazawa, Toshio	Lecomte, Juliette	Marunaka, Yoshinori
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Nowak, Thomas	Petrache, Horia	Root, Douglas	Sheets, Erin
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Ochi, Rikuo	Philipson, Louis	Royer, Catherine	Sherman, Arthur
Ohkura, Masamichi	Pilarczyk, Goetz	Ruff, Robert	Shillcock, Julian
Ohnishi, Tomoko	Piston, David	Rydqvist, Bo	Shimizu, Juichiro
Ohta, Yoshihiro	Pla, Salvador	Sackin, Henry	Shoham, Menachem
Oiwa, Kazuhiro	Pocanschi, Cosmin	Salditt, Tim	Shrier, Alvin
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Okamura, Yasushi	Polder, Hans Reiner	Salonen, Emppu	Siegel, Edward
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Sorenson, Martha	Tateyama, Michihiro	Voelz, Vincent	Ying, Liming
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Sorota, Steve	Taylor, Richard	Volker, Jens	Yonetani, Takashi
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Srinivasan, Mohan	Tinazli, Ali	Wang, Yongmei	Yue, David
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Stevens, Charles	Toyoda, Shinjiro	Weisel, John	Zhadin, Nickolay
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Stoeckenius, Walther	Treves, Susan	White, Stephen	Zhang, Yang
Stokes, David	Tuma, Roman	Willsky, Gail	Zheng, Jie
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Straub, Karl	Turner, R. James	Windhager, Erich	Zlatanova, Jordanka
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## Public Affairs

### Energy Bill Includes Boost for Basic Research

Prior to leaving Washington for the month of August, Congress passed an energy bill that the House and Senate have been working on for four years. Included in the 1724 page bill are provisions to increase federal spending on basic research. Specifically, the bill calls for the Department of Energy's Office of Science to increase its budget from \$3.6 billion in 2005 to \$5.3 billion by 2009. It is important to note that while the bill authorizes Congress to spend that much, it does not have to provide that much money to the Office of Science—that decision is made during the yearly budget process by the appropriations committees.

The bill also creates a new Undersecretary of Science position within the Department of Energy, which supporters say should elevate the role of basic science research within the agency.

### Frist Supports Expanded Stem Cell Research

In a surprise move, Senator Majority Leader *Bill Frist* (R-Tenn) announced his support for legislation that would increase federal funding for research on stem cells during a July 29 speech on the Senate floor. The legislation, which has already won the approval of the House, would allow federal support of research on stem cell lines derived from excess embryos resulting from in vitro fertilization procedures.

Despite the backing of the Majority Leader, the future of the legislation remains in doubt. The President has stated repeatedly that he would veto such legislation. He stands behind his policy that federal funding will only be available to researchers working with the 78 cell lines available as of August 2001. Scientists have argued that the policy is too restrictive since only 22 of those 78 lines are actually available; the rest are either contaminated or in private hands.

### Bridging the Sciences

The Coalition held its first face-to-face meeting on June 29. The meeting brought together representatives from eleven of the sixteen member societies and gave them a chance to discuss what progress has been made in securing funding for research at the interface of the life and the physical sciences, as well as to strategize next steps. The coalition plans to hold such meetings annually.

### Draft Legislation Released for NIH Reauthorization

In July, the House Energy and Commerce Committee released a working draft of legislation that would reauthorize the National Institutes of Health (NIH). The Senate has indicated they would take up the issue if the House makes any progress. Reauthorization is supposed to happen about every five years, but because of the contentious issues that can arise in discussions of the NIH, Congress has not passed a reauthorization bill for the Agency since 1993. Instead, the pro-

grams have been authorized to exist for another year when it is given money during the appropriations process annually.

Through the reauthorization process, House Energy and Commerce Committee Chairman *Joe Barton* (R-TX) hopes to improve the agency's management practices. Specifically, Barton has included in his draft the creation of a division of program coordination, planning, and strategic management within the Director's office. This division would be responsible for setting priorities for the NIH as a whole. The draft also increases power in the Director's office by increasing from 1% to 5% the amount of money the Director can transfer between institutes or use for trans-NIH initiatives without Congressional approval.

To improve accountability, the draft legislation calls for the NIH to setup a uniform searchable electronic database of its grants and activities. The NIH must also report to Congress every two years on its activities.

In addition to improving management practices, Barton has also attempted to streamline the appropriations process by grouping the institutes and centers of the NIH into two groups: those that are science-enabling and those that are disease-specific. If this provision were to become law, Congress would appropriate money to these two clusters, which NIH would then divide among the institutes in each cluster. Currently, Congress appropriates money to each of the 27 institutes and centers directly.

Of special interest to the Biophysical Society, the draft legislation includes the creation of a Bridging the Sciences Demonstration Program. Run out of the Director's Office, this program would

fund research at the interface of the life and physical, computational, and mathematical sciences.

The draft, with its focus on management and accountability, does not alter or mention the peer review process, nor does it consolidate the Institutes. The scientific community at large has been slow to react to the legislation publicly, but remains skeptical of change. The Biophysical Society public affairs committee will review drafts as they become available and keep the Society informed of any significant proposals.

## Roundup

*National Academies of Science:* [Ralph Cicerone](#) assumed the position of President of the National Academies of Science. Cicerone is an atmospheric scientist. His term expires in June 2011.

*HHS:* The newly minted National Science Advisory Board for Biosecurity (NSABB) held its inaugural meeting at the beginning of July. The NSABB consists of both Board members from the scientific and security communities and ex-officio members representing interested federal agencies. At the first meeting, the Board discussed developing criteria for identifying dual use research & research results, communicating dual use research, codes of conduct, the chemical synthesis of bacterial and viral genomes, and the international perspective on these issues. These five topics became the subjects of working groups for NSABB as it moves forward.

## How to Get a First Grant

*This is the first in a series of "How to..." topics, outgrowths of discussions held during the Career Roundtable Luncheon sponsored by the Committee on Professional Opportunities for Women (CPOW) at the 49th Annual Meeting of the Biophysical Society held in Long Beach.*

One of the greatest challenges a young investigator faces is writing a grant and obtaining the first funding. This was one of the topics of discussion at the Career Luncheon sponsored by the Committee on Professional Opportunities for Women (CPOW) at the Biophysical Society's 49th Annual meeting at Long Beach, California. Biophysical Society members [Robert Clegg](#), [Steve Harvey](#), [Suzanne Scarlata](#), [Lynn Marie Thompson](#), and [Andrea Yool](#), who have served on study sections and have well established research programs, provided invaluable insight into the process of writing a successful grant. Some of the key points and suggestions made during the discussions are highlighted below.

◆ **Preliminary experiments.** Don't hesitate to send out a grant, if there is enough data to support the hypothesis and feasibility of the proposed research. Even if the grant is not funded in the first round, feedback from the reviewers can be very helpful.

◆ **Controversies in the field.** It is important to directly address existing controversies. Don't try to bury them. Reviewers

do pay attention to these inconsistencies, so make sure you do a thorough literature survey in the area of proposed research. The best way to address controversy is to show how the proposed research would help clarify the inconsistencies.

◆ **Proposed research.** The grant should be simple and not overambitious. A first grant from a young investigator should have two to three specific aims. Parallel specific aims are sometimes advisable because the success of the second aim does not depend on the success of the first. On the other hand, there are some excellent proposals where specific aims are hierarchical. One pitfall of sequential aims, however, is that if the first aim is flawed then the proposal is less likely to be funded. In either case, it is essential to think through all the possible problems that might be encountered in the proposed research and outline alternative strategies.

◆ **Where to apply.** There are many sources of grants including private, state, and federal agencies and foundations. While federal funding is often preferred, smaller grants from state and private agencies may have significantly higher funding rates. For first time investigators, there is no conflict in simultaneously submitting the same proposal to several agencies as long as one lets each funding agency know what is pending elsewhere. If all get funded, take the more generous grant.

(Continued from page 11.)

the Metallurgical Laboratory at the University of Chicago. He also helped on the Manhattan Project, studying the effects of radiation on living things. In 1946, the University of Chicago set up a new Institute of Radiobiology and Biophysics and Cole became Professor of Biophysics and Physiology and head of the Institute. Here he met and worked with *George Marmont*. Together they developed the voltage-clamp apparatus, which Cole used in 1949 to measure the early inward and late outward currents underlying the action potential in squid giant axon.

By the late 50s many biophysicists felt there were no existing scientific societies that catered to their scientific needs. Cole, along with the rest of the

Committee of Four (*Otto H. Schmidt*, *Samuel A. Talbot*, and *Ernest C. Pollard*) organized the First National Biophysics Conference in 1957. Cole became an advocate of the Society and went on to be President from 1963-1964. He was also an Executive Board Member in 1961 and an Executive Council Member in 1958 and again in 1962. Cole also helped to establish the International Union of Pure and Applied Biophysics (IUPAB).

In 1959, Cole set up a new Laboratory of Biophysics at the NIH National Institute of Nervous Diseases and Blindness Institute. In 1966, Cole stepped down as head of the lab, but con-

tinued to work there as Senior Research Biophysicist. While at NIH, Cole worked with many scientists, including *Clay Armstrong*, a post doctorate at that time.

**“He was able to bring physical techniques to biology. He was one of the first people who did that in a specific way.”**

Armstrong says that, "Kacy, was a great experimental scientist. He had colleagues which included, notably, *H.J. Curtis* and *George Marmont*,

who were great pioneers in the study of electrical properties of cells."

Cole died on April 18, 1984.

The K.S. Cole Award, established in his honor, is given to those who make advances in the field of Membrane Biophysics.

## Molecular Motors: Point Counterpoint

BIOPHYSICAL SOCIETY DISCUSSIONS MEETING  
OCTOBER 19–21, 2006  
ASILOMAR, CALIFORNIA

The Discussions are small meetings that focus on a cutting-edge or emerging topics in biophysics, topics that benefit from intense discussions. The meetings are patterned after the Farraday Society and have a unique format that stresses discussion over formal presentations. Plenary sessions consist of five-minute presentations by speakers, followed by a lengthy discussion. In addition there are poster sessions. This format allows for greater, less-inhibited participation by participants. Discussions meetings are limited to 150–200 participants and last for approximately three days.

The 2006 Discussions topic will be *Molecular Motors: Point Counterpoint*. Organized by *Sharyn Endow* of Duke University and *Steven Rosenfeld* of Columbia University, *Molecular Motors: Point Counterpoint* will focus on aspects of the motor mechanism, juxtaposing recent findings from the kinesins with those from the myosins and dyneins. Presentations on other motors will be included where relevant. Talks will emphasize mechanistic themes among motors of different families, pointing out differences and similarities. Discussions will focus on findings from biophysical and biochemical approaches, taking into account those from biological and theoretical methods.

Visit the Biophysical Society website, [www.biophysics.org](http://www.biophysics.org), for application information and program updates.

**BIOPHYSICAL SOCIETY STUDENT HOUSING RESERVATION FORM**

February 18-22, 2006

Salt Lake City, Utah

Student Housing Hotel: The Little America Hotel, Courtside Rooms

\$95 Single/Double, \$110 Triple, \$125 Quad, per night plus tax

Housing Opens: August 1, 2005

Deadline for Student Housing: November 4, 2005

**IMPORTANT INFORMATION**

The Biophysical Society has secured student housing at The Little America Hotel. The Little America Hotel is across the street from the headquarter hotel, The Grand America. All forms should be submitted directly to BPS and the BPS staff will forward this form and deposit to the Salt Lake Convention & Visitors Bureau (SLCVB). All student housing reservation requests must be received by November 4, 2005. There is a standard deposit of \$150 per room. This amount will be credited to your stay. The deposit amount is payable by credit card (Visa, MasterCard, Discover, American Express, and Diner's Club) or check (mail only).

**1. To make reservations****YOU MUST COMPLETE YOUR STUDENT PREREGISTRATION FIRST.**

All Student Housing requests must be sent by mail to:

Student Housing  
Biophysical Society  
9650 Rockville Pike  
Bethesda, MD 20814-3998

Please include:

This completed form.  
Check for \$150 or credit card information.  
Annual meeting student registration receipt.

Confirmations will be sent to the individual indicated in Part 2 via email, if provided.

**2. General Information****SEND CONFIRMATION TO:**

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_

Postal Code/Country: \_\_\_\_\_ Email Address: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

(If number is not within the US, please provide the entire number the US will need to dial to reach you.)

**3. Hotel Information**

Occupant's Name(s)

Occupancy (circle one)

\_\_\_\_\_

Single – 1 Person

Arrival Date \_\_\_\_\_

\_\_\_\_\_

Double – 2 People

Departure Date \_\_\_\_\_

\_\_\_\_\_

Triple – 3 People

Smoking \_\_\_\_\_ Non Smoking \_\_\_\_\_

\_\_\_\_\_

Quad – 4 People

ADA requests \_\_\_\_\_

**4. Deposit Information***All hotels require a room deposit of \$150. Make checks payable to SLCVB Housing Bureau, drawn on US bank.*

Please bill (circle one): Visa MasterCard Discover Amex Diner's Club

(Credit card must be valid through February 2006.)

Credit Card Number: \_\_\_\_\_ Exp. Date \_\_\_\_\_

**Name as it appears on card:** \_\_\_\_\_**Authorized signature:** \_\_\_\_\_

Room Rates & Taxes: To take advantage of the special BPS student housing rates, please submit this form, payment, and annual meeting registration receipt by November 4, 2005. All rates are per room and are subject to 12.46% occupancy tax (subject to change).

Changes and Cancellations: All changes and cancellations must be made with the SLCVB through February 9, 2006. After February 9, cancellations and changes must be made with The Little America. Reservations canceled within 72 hours of arrival date must be canceled with The Little America and individuals forfeit the full deposit amount of \$150. Penalties for early departures are enforced and vary by hotel.

## Salt Lake Hotel Accommodations



--○-- Indicates TRAX light-rail route.

- 1 The Grand America Hotel
- 2 Little America Hotel
- 3 Hilton Salt Lake City Center
- 4 Marriott Salt Lake City Center
- 5 Shilo Inn Hotel
- 6 Marriott Salt Lake City Downtown
- 7 Radisson Hotel Salt Lake City Downtown

## Make Your Reservations Early

[www.biophysics.org](http://www.biophysics.org)

Each year, Annual Meeting attendees are encouraged to make their hotel reservations through a Housing Office/Bureau, found on the Society's website, and to reserve rooms in hotels with which the Society has contracted. This group of hotels is called a "housing block." What is a housing block and why is it important? What is a Housing Office/Bureau and what are the benefits of using one?

A housing block is a group of hotels with which BPS has contracted for a specific number of rooms at competitive nightly rates. Part of the contract includes guarantees for meeting attendees in the event of overbooking, construction, or problems with a room. A Housing Office/Bureau is a central clearinghouse for all reservations in the block. On any day, the Office/Bureau can see how many rooms are available in each hotel and provide the hotels with lists of those who have made reservations. The Office/Bureau immediately takes care of any problems that arise for attendees who have booked through their service.

If, for example, a hotel within the block overbooks and the attendee used the Housing Office/Bureau to secure the room, the attendee is guaranteed either a room at that hotel or very specific and generous compensation. If, on the other hand, an attendee secured a room outside the room block, the hotel is under no contractual obligation to provide a room or compensation. In that scenario, the hotel will always move the outside-the-block attendee.

Filling a room block is important because it provides a "report card" on the Society to future meeting sites. By establishing a history of always filling the room block, the Society is able to secure both competitive room rates and larger blocks of rooms in subsequent years.

The 2006 Annual Meeting, which will be held in Salt Lake City, Utah, will be the Society's 50th Annual Meeting. The Salt Lake Convention & Visitors Bureau will manage the Housing Office for that meeting. The site may be accessed at [www.biophysics.org](http://www.biophysics.org).

The Society has contracted with six hotels in Salt Lake City, including The Grand America, which will serve as the headquarters hotel. The Grand America is a five-star hotel, and the Society was able to secure excellent rates for the beautiful rooms. It will be a memorable headquarters hotel for the 50th Annual Meeting. We're looking forward to seeing you in Salt Lake City!



## Biophysical Society Volunteer Biographical Sketch

The Biophysical Society Committees are essential to the implementation of the Society's stated purpose to encourage development and dissemination of knowledge in biophysics. Committee members and chairs in all but two of the Society's fourteen committees serve three-year terms, renewable once. All new and continuing committee appointments are approved by Council when it meets each year at the Annual Meeting. Committee members must be current Society members at the time of their appointment. Society members who wish to be considered for a committee appointment are encouraged to submit this form.

*Volunteer forms received prior to November 15, 2005, will be considered for appointment in 2006.*

I wish to be considered for (indicate office): \_\_\_\_\_

I am interested in serving on the following committee(s): \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Full name: \_\_\_\_\_

Highest degree: \_\_\_\_\_ Year received: \_\_\_\_\_

Discipline/Field: \_\_\_\_\_

Institution where degree was received: \_\_\_\_\_

Present title/department/institution: \_\_\_\_\_

Research interests and experience: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

Previous Biophysical Society experience (Officer, Executive Board, Council, Editor, Committee Chair or member, Subgroup Chair, etc.):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

My reason for running for this office or serving on this committee is: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Mail or fax completed form to:  
 Secretary  
 Biophysical Society  
 9650 Rockville Pike, Bethesda, MD 20814-3998  
 301-634-7133

## Upcoming Events\*

**September 21-24, 2005**

*45th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)*

Washington, DC

<http://www.icaac.org>

**November 1-3, 2005**

*International Congress of Nanotechnology 2005*

San Francisco, California

<http://nanotechcongress.com>

**November 2-5, 2005**

*2005 Annual Biomedical Research Conference for Minority Students (ABRCMS)*

Atlanta, Georgia

<http://www.abrcms.org/>

\*Please visit <http://www.biophysics.org/> for a complete list of upcoming events.

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**Biophysical Society**

9650 Rockville Pike  
Bethesda, Maryland 20814-3998

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