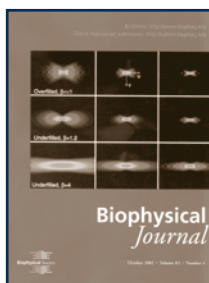


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**BJ Online Expands**



*BJ Online* now publishes supplemental material not included in the print Journal. Beginning in July 2002, authors have been able to submit supplemental materials for review with their manuscript. The material is reviewed along with the paper, and is

accepted for publication in *BJ Online* if the reviewers and/or Editorial Board determine that the material provides additional substance to the print version of the paper and enhances the reader's scientific understanding of the paper. Such material can include videos.

For specific guidelines and information on submitting supplemental materials, visit: <http://www.biophysics.org/supplements.pdf>.

To submit manuscripts and supplemental materials, visit: <http://submit.biophysj.org>.

**Cassman to Receive Distinguished Service Award**



*Marvin Cassman*

*Marv Cassman* of the Institute for Quantitative Biomedical Research in San Francisco, has been named recipient of the 2003 Distinguished Service Award. Cassman, who served as Director of the National Institute of General Medical Sciences for six years, will be honored at the Awards Ceremony, March 3, 2003, for his contributions to the success and progress of biophysical chemistry.

**2003 Annual Meeting Update**

*See page 11*

**Henry B. Gonzalez Convention Center  
 San Antonio, Texas  
 March 1 – 5, 2003**

*Early Registration Deadline:* December 13, 2002

For online registration visit:  
<http://www.biophysics.org/register.htm>



## Biophysical Society

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## Biophysicists in Profile



Lily Jan

Lily Jan came to biophysics “by elimination.” Born in China to parents who were both accountants, Jan moved to Taiwan as a baby. Although she does not recall having an inclination toward science as a child, she does remember her high school chemistry teacher, who always made himself available to her, and encouraged her to pursue more in-depth studies by providing her with additional study material.

During high school, students in Taiwan needed to choose a career track, which enabled them to start taking classes that would fit their future careers. At that time, science in Taiwan was essentially split between biology and physics. The biology section, however, was primarily geared toward medical school or traditional fields such as zoology and botany. “In Taiwan we applied to specific departments (e.g. physics),” explains Jan, “when we applied to college, and acceptance was based on the outcome of a whole-island exam lasting for days for all high school graduates at once.” During this time, the Nobel Prize for Physics went to China’s *Chen Ning Yang* and *Tsung-*

*Dao Lee*, which popularized physics for the upcoming generation of high school graduates. Excited by this, Jan chose physics.

After graduating from the National Taiwan University in 1968 with a degree in physics, Jan attended graduate school at the California Institute of Technology. After having lived on an island for most of her life, traveling was “a big deal,” so Jan looked forward to attending graduate school overseas. Among the small group of graduates making the trip to CalTech was *Yuh Nung Jan*, who only a friend at the time would later become her husband.

Jan chose CalTech because of its reputation in high-energy theoretical physics and studied under the guidance of *George Zweig*. After two years studying physics, Jan switched her major to biology and worked with two new thesis advisors, *Jean Paul Revel* and *Max Delbrück*. Some of her fellow graduate students in the dorm were biology majors, and Jan noticed how excited they were over what they did and discovered. She realized that “lots of things were possible,” which was very different from the experience she had in Taiwan. Influential, too, was Delbrück, who was a mentor to Jan. It helped that he was interested in biology, and influenced many physics students to turn their attention to biology. She marvels at the opportunities she and her husband were given at Caltech to “switch from physics to biology with no background preparation.” Although as postdocs at CalTech she and her husband worked closely on the same projects, Delbrück and Revel helped her work on her thesis, trying to not overlap her work with that of her husband. In the end, Jan graduated from Caltech with a doctorate in both physics and biophysics.

She stayed at Caltech as a Research Fellow to do some postdoctoral collaboration with her husband. Together they worked in *Seymour Benzer's* lab, where Jan began to develop as a biophysicist. The Jans explored the genetics of the fruit fly and how it affected its behavior. There, they identified the *Shaker* gene as a gene of potential structural importance to potassium channels, and studied how its mutation affected the behavior of the fruit fly itself.

To further examine the *Shaker* gene, however, the Jans needed to look more intently at the gene and its function. Since this was pre patch-clamping days, the only cells they were able to look at were large muscle cells. Together they decided to move to Harvard to work in *Stephen Kuffler's* lab to learn more about neurophysiology and how it could help define and correlate their own findings.

At Harvard, Jan was the first woman postdoc in Kuffler's lab. But when asked about obstacles faced as a woman in a then-male dominated field, Jan focuses on the opportunities instead. "I witnessed the transition," she recounts, "and for that reason perhaps I have always marveled at the opportunities, rather than obstacles." When she went to CalTech in 1968 as a graduate student there was only one graduate women's house, which she describes as "a corner house for seven of us, very thoughtfully just then set up by the faculty." Less than four years later, the first undergraduate woman transferred to CalTech. Now at UCSF, she notes that "there have been a fairly large number of very strong female faculty thriving scientifically, in a progressive and proactive environment."

Following her work at Harvard, Jan returned to California, where both she and her husband accepted positions at

the University of California, San Francisco. As a dual-career family they found they could work together by working separately. Over the years they have adjusted the way they collaborate.

"On the faculty, we have developed two lines of research," she explains, "one on potassium channels and one on neural development, and we each follow one line more closely." Jan feels fortunate that they have been able to "pick up new approaches as novices on the faculty, and to be given the time—much longer than we anticipated in the case of *Shaker* cloning—to pursue difficult problems at UCSF."

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**"...I have always marveled at the opportunities, rather than obstacles."**

---

Throughout this time, the Jans were also trying to raise a family. "At Harvard," Jan re-counts, "we actually took shifts carrying on experiments lasting quite a bit longer than 12 hours a day while tending our first baby." Juggling her career and her children was not that difficult, however, because the flexibility of her lab schedule allowed her to be there for her children when she needed to be. And having them to come home to helped her get away from it all when she got home. Yet, it was easy and not uncommon for her to go home and remain focused on her work. She found that the hardest part about balancing her career and her children was the guilt she felt. Eventually, however, she realized that her children were doing just fine, and that it was her own feelings she needed to work on. Her daughter, Emily, is now 25 and what Jan calls a "born artist." She majored in theater at Brown University and has illustrated her first children's book, *Pieces of Gold*, that was published in several languages in 2001

and recently won a prize. Son, Max, named after Jan's influential mentor at CalTech, has followed his namesake, and at the age of 17 is getting involved in lab work.

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**As a dual-career family they found they could work together by working separately.**

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To those starting out in science, Jan's advice is to "identify the scientific problem you believe is interesting and important and run with it." In the words of her mentor, *Max Delbrück*, 'don't do fashionable science'.

One of her former postdocs, *Edward Cooper*, now at the University of Pennsylvania Medical Center, praises her for making work in her lab exciting. She always maintained a "clear focus in the group," he says, "on identifying important scientific questions and new methodological strategies for addressing them." Cooper also stressed that Jan fostered an atmosphere of respect and commitment "through many quietly generous acts," toward her trainees, staff, and colleagues. Jan has been described as having an amazing range of knowledge and an ability to focus, and get the work done without appearing harried.

One key to Jan's scientific success is her determination to do something "important and something she believes in." It is the same determination she applies to her family life. When not working in the lab, Jan enjoys planning vacations and traveling with her family and reading in her spare time. But being a Mom is a major priority. "Before our daughter and son both take off for college and then their own careers," she explains, "my husband and I do not travel at the same time because it is important for at least one parent to be around for that casual chat anytime in the evening."

## Ask Professor Sarah Bellum

Professor Sarah Bellum answers your questions on navigating the often-uncharted waters of early career development. Professor Bellum was inspired by Ms. Mentor, a column by *Emily Toth* appearing in *The Chronicle of Higher Education*, and is written by *Patricia L. Clark*, chair of the Early Careers Committee. Do you have a question for Professor Bellum? Send it to [sarah\\_bellum@biophysics.org](mailto:sarah_bellum@biophysics.org). Your privacy is assured!

**Q** : I'm a graduate student, about half way through my thesis research, and my advisor just announced that he is accepting a job at a university on the other coast. What do I do?

—Feeling Caught

**A** : Moving around is part of academic life, but not a part that is ever anticipated with joyful abandon. And certainly not in the middle of graduate school!

Start off by realizing that at perhaps no other time during your PhD studies does your graduate advisor have a greater chance to make your life miserable by moving to another institution. But it doesn't have to be that way, and thoughtful advisors can make all the difference during the painful process of moving (see below). There are many choices for you to consider at this point, and there are many things you can do to protect yourself, regardless of what you choose.

Now, on to the decisions: Do you stay or do you go? If you stay, do you switch advisors and project, or keep the same advisor and project, and work in relative isolation? Your decision will depend on many factors: how close you are to finishing, how independent you are (or maybe you have a co-advisor who can provide some on-site supervision?), how much you like the project/PI, how much you want to stay at

your current institution and/or geographical location. Do you have a significant other? Do you have aging or ailing family members? Children in excellent school systems? Strong ties to a community service organization? These factors are all part of the moving/staying equation. Your PI may try to sway you one way or the other: keep in mind that a lab's personnel is, on average, cut in half by a move, and your

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**“...no other time during your PhD studies does your graduate advisor have a greater chance to make your life miserable by moving to another institution.”**

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PI might have strong motives for trying to keep together a core group of projects, skills, and/or experience.

Before you make a final decision, get commitments (preferably in writing) on how the mechanics of the move, and the rest of your graduate training, will be handled. If you are staying behind, but keeping the same advisor and project, how will you keep in touch with your PI? E-mail has made long-distance advising a viable option, but how many times per year will you see him in person? What space and equipment will be designated for your use? If you are moving, how will you find a new place to live?

Thoughtful PIs recognize that relocating students will need their own apartment-hunting trip, and include this as part of their total relocation package. How does the cost of living in the new location compare to your current location, and will your graduate stipend be supplemented, if necessary, to reflect this? Will your possessions be moved for you (they should be!)? If you will remain a student at the first university, who will pay for travel back and forth for thesis committee meetings? How often will they be scheduled? Can they be scheduled immediately before or after the departmental retreat, so you can maintain contacts with other faculty and students in your old department? How will your health insurance be handled? If you will join the graduate program at the new university, will the cumulative exams/original research proposal/etc. that you have already completed satisfy the degree requirements in the new department? Who will serve on your thesis committee?

Your thesis advisor will play a huge role here, and not just for coordinating the move. For example, if you will have ties back to your first university (if you remain enrolled as a student there, say), it is especially critical that (s)he maintain good relationships with former faculty colleagues. Too often, departing

faculty get into fights over what equipment stays/goes, etc., and burn a lot of bridges (bridges that you will need later!) in the process. Sad to say, stories abound of PIs so irritated with their former colleagues that they refuse to go back for their students' thesis committee meetings and defenses. You don't want this to happen to you.

Realize things will get stressful before the move, regardless of whether you decide to stay or go. Unforeseen tensions are likely to crop up between those moving and those staying, especially if there are difficult choices to be made about what equipment should stay behind. Nerves get frazzled, tempers flare. After a certain point, experiments must be postponed so disassembly, packing, and moving can take place; these decisions require cooperation among your labmates, and coordination provided by your advisor.

The stress doesn't end after the move, either. If you decide to move, your first few weeks in your new locale will likely be divided between spending all day in lab, unpacking boxes, and spending all evening at home, unpacking boxes! You may not know anyone

other than your fellow peripatetic labmates, so you will likely lean on and socialize with each other much more than you have in the past. Again, your PI can help a lot here: your advisor has likely met many of the faculty as part of his/her interviewing/negotiating, and can help you enormously by making an extra effort to introduce you and your

labmates to your new colleagues. Before the move, set a deadline (say, two weeks) for doing your first experiment in the new lab. Don't make it anything particularly complicated; maybe just a repeat of something you have done before.

But do your darnedest to get experiments started as quickly as possible. It will reestablish your old routines, identify what reagents are missing (remember it is illegal to move a lot of the nastier chemicals cross-country), and give you a sense of progress not provided by unpacking, no matter how many boxes you unpack!

If you stay behind, you may find yourself suddenly isolated, separated

from the camaraderie and support services of a large, thriving lab. Start building ties now, before the move, to other labs doing similar research in your department. Ask if you can start sitting

in on their lab meetings and journal clubs, so you can maintain a network of colleagues.

Straighten out with your PI how routine ordering will be accomplished.

Moving the lab will undoubtedly be a messy upheaval, and it might put you six months (or more) behind on your graduation schedule. But don't overlook the benefits of the move (yes, I said benefits!): If you stay behind, you are bound to get a speeded-up introduction to scientific independence. Handle it well, and that independence is bound to make you more attractive to potential future employers. If you move, your advisor was likely wooed with a big fat startup package, meaning you can start shopping for the specialized equipment for which your project might just now be hankering. The move may put you in a better environment for your science, or your personal life, or (best of all possible worlds) both!

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**"...don't overlook the benefits of the move..."**

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**"Realize things will get stressful before the move, regardless of whether you decide to stay or go."**

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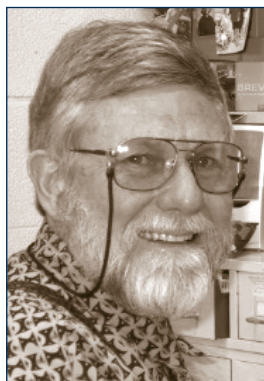
## NSF New Funding Opportunity

Frontiers in Integrative Biological Research (FIBR) is a newly established competition for grants (up to five million dollars) to address major challenges in biology. FIBR encourages investigators to identify major under-studied or unanswered questions in biology and to develop innovative approaches to address them by integrating the scientific concepts and research tools of biology, math and the physical sciences, engineering, social sciences and the information sciences.

Applicants are encouraged to focus on the biological significance of the question, to describe the integrative approaches, and to develop a research plan, which is not limited by conceptual, disciplinary, or organizational boundaries. Particularly encouraged are the inclusion of young scientists trained in an interdisciplinary environment or in non-biological disciplines, and partnerships with minority serving primarily undergraduate institutions and community colleges.

The full program announcement can be found at: <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf02154>.

## Minority Affairs



Barry Lentz

Barry Lentz became Chair of the Biophysical Society Minority Affairs Committee (MAC) in May with the retirement of Jackie Tanaka from this duty. Tanaka, who led the MAC for three important years, assumed the position of Chair of the Professional Development Committee, which oversees several Society committees including the MAC.

### MAC Charge

The charge of the MAC is to increase the number of minority biophysicists and enhance the visibility and career opportunities of present minority biophysicists, and to involve them in Society affairs. A major focus is to reach minority students and beginning investigators and interest them in biophysics via the Annual Meeting. At the last Annual Meeting, as well as at previous meetings, the Committee discussed several issues, but two struck a sharp chord with several members of the Committee and will serve as the major focus of the Committee for the coming year:

1) introducing undergraduates at historically minority universities (HMUs) to the excitement of biophysics, and

2) helping those students who pursue training in Biophysics achieve success in graduate school.

The Committee sees these issues as the starting point if the Society hopes to increase minority participation in our wonderful science and in our Society. Subsequently, the Committee agreed via e-mail on an action agenda for the coming year. This agenda, the membership of the Committee, and each member's role in the agenda are listed below. We welcome input from any member of the Society who has suggestions for accomplishing these goals. Please send comments and suggestions to Barry Lentz at [uncbrl@med.unc.edu](mailto:uncbrl@med.unc.edu).

### Committee Members

- Paul Adams, Cornell University, Department of Molecular Medicine, College of Veterinary Medicine
- Connie Allen, Yale University, Department of Chemistry
- Maurice Efink, University of Mississippi, Department of Chemistry
- Dixie Goss, CUNY Hunter College, Department of Chemistry
- Barry Lentz, Chair, University of North Carolina Program in Molecular & Cellular Biophysics
- Luis A. Marky, University of Nebraska Medical Center, Department of Pharmaceutical Science
- Alfred McQueen, Hampton University, Department of Biology
- Lydia Sohn, Princeton University, Department of Physics
- Mike Summers, University of Maryland Baltimore County, Department of Chemistry.

### MAC Agenda

► Paul Adams will attend the Society for Advancement of Chicanos and Native Americans in Science (SACNAS) meeting September 26–29 in Anaheim, California. He will staff the booth to explain the central role of mechanistic and structural studies to modern biomedical science.

► Barry Lentz will attend the Annual Biomedical Research Conference for

Minority Students (ABRCMS) meeting November 13–16 in New Orleans. This is the first time the Society has sent a representative to this meeting, which draws minority students and educators from across the country.

► Barry Lentz, Paul Adams, and Luis Marky, with the assistance of Cheryl Szaro in the Society office, will develop a poster for the booths at these meetings to introduce minority students to the exciting careers available in the field of Biophysics. The poster will stress resources and opportunities available through the Society.

► Barry Lentz, Paul Adams, Luis Marky, and Dianne McGavin will develop a web page to do the same thing as the poster and provide more information and direct links to useful resources. Dixie Goss and Luis Marky will help get information about this resource to students and/or faculty in a variety of schools serving large minority student populations.

► As in past years, the Committee will sponsor a reception for MARC and SPGRE students attending the 2003 meeting in San Antonio. The reception will take place on Sunday evening at 5:00–7:00 PM. Lydia Sohn will assume the point position on reviewing applications for MARC travel awards, and Connie Allen will work with Society staff in setting up the reception.

► Mike Summers and/or Maurice Efink will participate in a workshop co-sponsored by the MAC and Education Committees at the Annual Meeting. The workshop, organized by Education Committee Chair Suzanne Scarlata, will focus on helping minority graduate students be successful in biophysics training.

► Barry Lentz will contact Directors of NIH-funded molecular Biophysics Training Programs to determine how they and the Biophysical Society might help each other in introducing minority undergraduate students to the excitement of exploring biology on a molecu-

lar and mechanistic level. Some ideas under consideration are:

1) to engage the Society's Placement Service to set up special databases to help link up HMU students and faculty with biophysicists in large research universities who are willing to sponsor a summer research project or a sabbatical leave, and

2) To develop a resource list of faculty from research institutions who are willing to visit HMUs to give talks aimed at undergraduates about their area of biophysics.

► *Bernie Chasan* of the Education Committee and *Al McQueen* of the MAC are joining forces to develop a syllabus and course to interest HMU undergraduates in biophysics. Ideally, this might serve as a model or starting point for faculty at HMUs who might want to develop a course but who are traditionally too over-loaded with teaching to plan a new course. The aim is to run this course at Hampton next summer. *Barry Lentz* will coordinate and search for funding for this effort.

## Additional 2002 Biophysical Society Members

The following members renewed their 2002 membership or joined after the publication of the *2002 Directory of Members*.

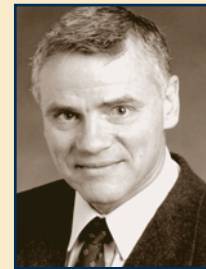


*Christine Ellouze-Hamrouni*, Harvard School of Public Health ♦ *Alfred R. Holzwarth*, Max Planck Institute ♦ *Rami Rahamimoff*, Hebrew University ♦ *Luis M. Rosario*, University of Coimbra ♦ *Arnold Wishnia*, State University of New York at Stony Brook

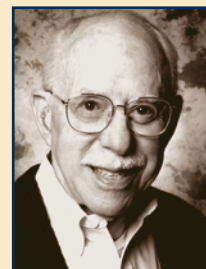
## Biophysicists in the News



*Lesser Blum*, University of Puerto Rico, Society Member since 1998, received the Joel Henry Hildebrand Award in Theoretical & Experimental Chemistry of Liquids.



*Lee Hood*, Institute for Systems Biology, an honorary Society Member for 2002, received the Kyoto Prize in Biotechnology and Medical Technology.



Correction:  
*Richard Setlow*, highlighted in the May/June newsletter, has been a Member of the Society since 1959, and was President of the Society from 1969-1970.

## Membrane Biophysics Subgroup

### *Nominations For K.S. Cole Award*

The Membrane Biophysics subgroup welcomes nominations for the K.S. Cole award. The deadline for nominations is November 1, 2002. If you would like to nominate a candidate for the K.S. Cole Award, please send the nomination to a member of the Advisory Committee: *Barbara Ehrlich*, Yale University; *Bill Wonderlin*, West Virginia University; *Bob French*, University of Calgary; *Lynne Quarmby*, Simon Fraser University; *Sarah Garber*, FUHS / The Chicago Medical School; *Colin Nichols*, Washington University.

### *Tickets For Cole Award Dinner*

The 2003 Cole Award Dinner will be held on Saturday, March 1, 2003 (location to be announced). The Membrane Biophysics Subgroup would like to encourage students to attend the dinner, and will be giving away 15 tickets by lottery to participants in the student poster competition at the 2003 meeting. Students should contact *Bill Wonderlin* at [wonder@wvu.edu](mailto:wonder@wvu.edu) to be included in the lottery.

## Public Affairs

### Appropriations Process Stalled

This year's federal appropriations process has become increasingly complicated. Faced with a confluence of interests vying for their "fair" share of the federal largesse, Congress is inundated with requests for funding priorities while facing an economic downturn, a divided Congress, an election year, and an impending war with Iraq. This makes it nearly impossible for meeting any previous deadline, including the now-past federal government's fiscal year end date, September 30.

There are 13 appropriations bill that Congress must pass annually. To date, not a single one has been passed. The only annual milestone to pass has been the Senate version of Labor/HHS bill. When this scenario develops, only two options remain, other than passing all bills. The first is to shut down the federal government. The second is to pass a continuing resolution (CR) that will keep the government open and extend the

timeline until a later date. Currently, Congress is scheduled to adjourn on October 11. According to Capitol Hill sources, the CR will likely be approved at the FY02 funding levels. The October date is already later than many members wish, as they are in tight reelection campaigns and anxious to return to their districts before the November vote.

The Bush Administration is not necessarily eager to see this process completed. Its priority is Homeland Security and passing the FY03 Defense and Military Construction spending bills.

Many believe that Congress will adjourn, then return for a lame duck session in November.

"There are three good working weeks in December," said Appropriations Chairman *Young* (R-FL), "we can produce the bills during that time period." In such a session, a long-term CR would take effect until work was completed on all the bills. Some are saying that it is beginning to look a lot like Christmas.

### NIH Moves in House

On September 4, House Appropriations Chairman *C.W. Young* (R-FL) introduced

House Resolution 5320, the Labor/HHS bill that funds the NIH. The bill has the exact amount of funding as the President's request for the Labor/HHS bill, however, it includes a \$27 billion amount for the NIH. This is a \$3.7 billion increase over FY02 appropriated funds and \$25 million more than the President's budget. Fiscal year 2003 is the final year in the NIH doubling effort. The Senate's Labor/HHS appropriations bill would also increase the NIH's budget 15.9%, to \$27.2 billion, in FY03. The respective bills will have to go to conference committee before they are passed. Contained within each chamber's bill are segments that reflect new institutes, centers, buildings, and programs.

### NIH Reorganization

Speculation about the Institute of Medicine's agenda regarding the NIH reorganization effort received some answers in the beginning of September, after the IOM's inaugural meeting. Congressional staffers who spoke at the IOM meeting said that the reorganization should focus on planning for the future, rather than considerations that might cause the "reshuffling" of institutes and centers.

Former NIH Directors *Harold Varmus* and *Bernadine Healy* have both publicly stated that downsizing the 27 institutes and centers would allow for a more efficient NIH. Many science and health advocacy groups responded to the potential shake up and warned that this reorganization process will be closely monitored.

While voices within the NIH speak against a reorganization plan that would put "another layer between an institute director and the NIH director," and praise the current sense of collaboration on the NIH campus, NIH opened its 27th institute, the National Institute of Biomedical Imaging & Bioengineering (NIBIB). Emory University radiologist *Roderic I. Pettigrew* was named its first

### A Political Junkies' Dream

In an unusual twist, there is the possibility that the Senate could change hands twice before the 108th Congress in January 2003.

Missouri Senator *Jean Carnahan* (D-MO) was appointed to fill a term of office that her husband, former Missouri Governor *Mel Carnahan*, won—after his death—in 2000. If Carnahan loses her race, according to Missouri law because she was to hold office just until the next election, her opponent, former Representative *Jim Talent* (R-MO), would be sworn in as the next Senator the day after the election. This would shift the balance in the Senate, favoring the

Republicans with a 50-49-1 majority. Even if Vermont's Independent Senator *Jim Jeffords* caucused with the Democrats, *Vice President Cheney's* tie-breaking vote would keep the Senate in Republican hands. However, if Talent won his Missouri race, the Democrats could still keep the Senate by winning elections in other states. Then, as the new Congress comes into session in January 2003, the Democrats would take back the Senate.

For Constitutional scholars and political junkies, this scenario is too good to anticipate.

director and NIBIB has already given out research grants to investigators.

NIBIB's mission is to "promote fundamental discoveries, design and development, and translation and assessment of technological capabilities in biomedical imaging and bioengineering, enabled by relevant areas of information science." Some of the areas of focus include: research into the development of new techniques and devices; related research in physics, engineering, mathematics, computer science, and other disciplines; research in screening for diseases and disorders; and development of target-specific agents to enhance images and to identify and delineate disease. Many observers have indicated that NIBIB will help foster cross-disciplinary research.

## NSF Doubling

On September 5, the Senate Health, Education, Labor and Pensions Committee (HELP) voted out a reauthorization bill for the National Science Foundation (NSF). The Senate bill, which is similar to the House bill (H.R. 4664), contains an increase that will put the NSF on a doubling effort until FY07. The current NSF budget is \$4.8 billion, but the 11.8 percent increase would provide the NSF with an annual budget of \$5.3 billion for FY03.

While the Congressional Committees are loath to dictate to federal agencies how exactly to spend the allocated funds, report language does strongly suggest certain areas Congress would like to see funded. For this bill, Congress urged spending \$567,980,000 for engineering (an \$80 million increase); just over \$1 billion for mathematical and physical sciences; and \$684 million for geosciences research.

On September 30, NSF Director *Rita Colwell* sent a letter to the Senate Committee on Commerce, Science, and Transportation stating her strong opposition to the doubling effort. "While

the Foundation appreciates the Committee's firm commitment to support fundamental research and science, technology, engineering, and mathematics (STEM) education, and the confidence that the Committee has demonstrated in NSF," Colwell stated the "NSF supports the Administration's budget request and therefore the bill should be amended to reflect the amounts contained in the authorizing legislation the Foundation transmitted to the Congress." Seasoned NSF advocates do not see any dichotomy in the Director's position. As an administration official, the Director must walk a fine line between the science community and the President's budget priorities.

## Homeland Security

For the last three months, the Bush Administration has been almost solely focused on Homeland Security. Different bills are floating around Congress, some with the President's agenda, others that modify his plan. This has become a test of patriotism to some degree and, as always, a political battle.

The President has made it clear he will not move on any other legislation until the Homeland Security issue is resolved. Congress had hoped to pass this legislation before the September 11 anniversary, but even after their return from the August recess and the joint session meeting in New York, no real resolution was made.

The creation of the Department of Homeland Security (DHS), known as National Homeland Security and Combating Terrorism Act of 2002 (S. 2452), was in its final stages, with language and amendments being completed the last week of September. The House is also bringing its version, H.R. 5005, to the floor for debate as well. Many in the biomedical community are concerned that part of the bill that states: "qualified to establish R&D programs and prioritize scientific opportunities and research approaches," could have an adverse effect on how science is funded within the federal government. In essence, this could conceivably remove the NIH as the leader in bioterrorism R&D. There are several ele-

*(Continued on page 23.)*

## BPS meets with NIGMS



*Mary Barkley (center) and Ken Dill (right) met with James Cassatt (left), Director, Division of Cell Biology & Biophysics, at the National Institute of General Medicine and Sciences, to discuss possible ways to fund additional biophysical studies.*

## Annual Meeting Update

### Symposia

#### Actin and Tubulin—Passive Substrates or Active Players?

*Tom Pollard*, Yale University, Chair  
*Julie Theriot*, Stanford University  
*Edward Egelman*, University of Virginia  
*Marileen Dogterom*, Institute for Atomic and Molecular Physics, Amsterdam

#### Biophysics in situ

*Karel Svoboda*, Cold Spring Harbor Laboratory, Chair  
*Petra Schwille*, Max-Planck Institute, Gottingen  
*Philippe Bastiaens*, European Molecular Biology Laboratory, Heidelberg  
*Wolf Almers*, Vollum Institute

#### Calmodulin Regulation of Ion Channels

*John Adelman*, Oregon Health and Science University, Chair  
*David Yue*, Johns Hopkins University  
*Gerhard Meissner*, University of North Carolina  
*Mark Anderson*, Vanderbilt University

#### Chaperones—Diversity in Structure and Mechanism

*Sue Wickner*, National Institutes of Health, Chair  
*Helen Saibil*, Birkbeck College, London  
*Bernd Bukau*, Institute of Biochemistry and Molecular Biology, Freiburg  
*Andreas Matouschek*, Northwestern University

#### Countering the Emerging Biological Threat

*Jill Trewhella*, Los Alamos National Laboratory, Chair

*Basil Swanson*, Los Alamos National Laboratory  
*R. John Collier*, Harvard University

#### Helicases and Motor Proteins that Act on Nucleic Acids

*Dale Wigley*, Cancer Research, UK, Chair  
*Smita Patel*, University of Medicine and Dentistry of New Jersey  
*Kevin Raney*, University of Arkansas  
*Terence Strick*, Cold Spring Harbor Laboratory

#### Macromolecular Signaling and Trafficking of Ion Channels

*Lily Jan*, University of California, San Francisco, Chair  
*Johannes W. Hell*, University of Iowa  
*Robert Kass*, Columbia University  
*James Trimmer*, State University of New York, Stony Brook

#### Mechanochemistry of Unconventional Myosins

*Kathy Trybus*, University of Vermont, Chair  
*Toshio Yanagida*, Osaka University  
*Sarah Rice*, Stanford University  
*David Corey*, Harvard Medical School

#### Membrane Trafficking and Targeting

*Suzanne Scarlata*, State University of New York, Stony Brook, Chair  
*Jim Hurley*, National Institutes of Health  
*Scott Emr*, University of California, San Diego  
*Jennifer Lippincott-Schwartz*, National Institutes of Health

#### Microtubule Motors: Structures and Mechanisms

*Joe Howard*, Max-Planck Institute, Dresden, Chair  
*Sharyn Endow*, Duke University

*Kazuhiro Oiwa*, Kansai Advanced Research Center  
*Ron Milligan*, Scripps Research Institute

#### Molecular Mechanisms of Membrane Fusion: Protein Machines & Lipid Materials

*Barry Lentz*, University of North Carolina, Chair  
*John Skehel*, National Institute for Medical Research, London  
*Reinhard Jahm*, Max-Planck Institute of Biophysical Chemistry, Gottingen  
*Leonid Chernomordik*, National Institutes of Health

#### Nucleic Acid Structure and Dynamics

*Jamie Williamson*, Scripps Research Institute, Chair  
*Ignacio Tinoco*, University of California, Berkeley  
*John F. Marko*, University of Illinois at Chicago

#### Probing Excitability and Contractility by Gene Transfer

*Eduardo Marbán*, Johns Hopkins University, Chair  
*Eduardo Marbán*, Johns Hopkins University  
*Henry Lester*, California Institute of Technology  
*Jeanne Nerbonne*, Washington University, St. Louis  
*R. John Solaro*, University of Illinois, Chicago

#### Protein Folds, Function, and Evolution

*Mark Gerstein*, Yale University, Chair  
*Gitte Neubauer*, Cellzome, Heidelberg  
*Nick Grishin*, University of Texas Southwestern, Dallas  
*Bonnie Berger*, Massachusetts Institute of Technology

### Single Molecule Folding and Catalysis

*Jane Clarke*, Cambridge University,  
Chair

*Daniel Herschlag*, Stanford University

*Julio Fernandez*, Mayo Clinic

*Xiaowei Zhuang*, Harvard University

### Structural Integration— Chromatin at Many Levels of Detail

*Jeffrey Hansen*, University of Texas  
Health Science Center, San Antonio,  
Chair

*Karolin Luger*, Colorado State University

*Chris Woodcock*, University of  
Massachusetts

*Sepideh Khorasanizadeh*, University of  
Virginia

### Topoisomerases and Recombinases: Enzymes that Push DNA Around

*Jim Berger*, University of California,  
Berkeley, Chair

*Phoebe Rice*, University of Chicago

*Vincent Croquette*, Centre National de la  
Recherche Scientifique, Paris

*Nicholas Cozzarelli*, University of  
California, Berkeley

### New and Notable

This program will not be finalized until December 2002. We will attempt to spread a wide net to find out what is truly new and notable, and hope for input from the membership as we move closer to the time of the meeting.

### Awards Symposium

Will run unopposed to all symposia.

### Workshops

#### Overexpression of Membrane Proteins

*Robert Nakamoto*, University of  
Virginia, Chair

*Reinhard Grishammer*, National  
Institutes of Health

*Ronald Kaplan*, Finch Medical College

*Ina Urbatsch*, Rochester University

*Svetlana Lutsenko*, Oregon Health and  
Science University

*Ben de Kruijff*, Utrecht University

#### Physical Techniques in Proteomics

*Michael Snyder*, Yale University, Chair

*Erin O'Shea*, University of California,  
San Francisco

*Brian Chait*, Rockefeller University

*Charlie Boone*, University of Toronto

*Marc Vidal*, Harvard University

*John Yates*, Scripps Research Institute

#### Quantifying Reversible Macromolecular Association

*Jack Correia*, University of Mississippi  
Medical Center, Chair

*Jim Cole*, University of Connecticut

*George Makhatadze*, Penn State College  
of Medicine

*Roy Marriuzza*, Center for Advanced  
Research in Biotechnology

*Peter Schuck*, National Institutes of  
Health

*Walter Stafford*, Boston Biomedical  
Research Institute

*Nancy Thompson*, University of North  
Carolina

## Molecular Biophysics Subgroup Program

Saturday, March 1

9:00 AM–12:30 PM

### Cellular Quality Control: Fidelity Mechanisms in the Maintenance and Transfer of Genetic Information

*David Millar*, The Scripps Research  
Institute, Chair

### Determinants of DNA Polymerase Proofreading

*David Millar*, Department of  
Molecular Biology, The Scripps  
Research Institute

### Molecular Mechanisms of DNA Mismatch Repair

*Peggy Hsieh*, National Institutes  
of Health

### Missteps in tRNA Aminoacylation: Proofreading and Repair Mechanisms

*Tamara Hendrickson*, Department  
of Chemistry, Johns Hopkins  
University

### Fidelity of Aminoacyl-tRNA Selection on the Ribosome: The Importance of Ribosome Dynamics

*Marina Rodnina*, Institute of  
Physical Biochemistry,  
University of Witten/Herdecke

## The Biophysical Society Placement Center



The Biophysical Society provides a free placement service at the Annual Meeting to all its members. Advance registration is advised, however on-site registration at the meeting is available. To register, visit <http://www.biophysics.org/placement/>. For further information contact the Society office at 301-214-8839 or [akitaguchi@biophysics.org](mailto:akitaguchi@biophysics.org).

**SATELLITE MEETING**

**Drug Discovery for Ion Channels III:  
Advances in Electrophysiology and Assay Development**

**Friday, February 28, 2003**

**San Antonio Convention Center**

Traditional electrophysiology techniques identified ion channels as critical mediators of physiological processes and as targets of many drugs. These classical techniques, although well suited for analysis of drug mechanism, are limited as tools for drug discovery, because of expertise requirements, lack of automation and limitations in the kinds of preparations suitable for analysis. This symposium focuses on emerging electrophysiology technologies that will revolutionize electrophysiology as a tool for drug discovery and functional screening. These include the automated two-electrode voltage clamp, the “planar patch clamp” method and other methods for parallel whole-cell recording, and the multielectrode array system for analysis of networks of cells in tissue slices or cultured cells. Speakers from industry and academia will discuss the development and potential of these new technologies and present experimental results obtained with these systems.

8:00 – 8:45 AM

**Badge Pick-up**

8:45 – 9:00 AM

**Opening Remarks**

*Alan Finkel, Axon Instruments*

**Session I**

**The Pharmaceutical Perspective**

9:00 – 9:30 AM

**Assays and Instruments for Ion Channel Drug Discovery: An Overview**

*Andrew Bullen, Bristol-Myers Squibb*

9:30 – 10:00 AM

**Compound Screening for Ion channels using High Throughput Electrophysiology**

*Michael Xie, Millenium Pharmaceuticals*

10:00 – 10:15 AM

**Break**

**Session II: Novel, Pipette-based Tools for Ion Channel Screening**

10:15 – 10:45 AM

**Flyscreen! Precision HTS Patch-Clamp**

*Albrecht Lepple-Wienhues, Flyion, Tübingen, Germany*

10:45 – 11:15 AM

**The “AutoPatch” Family of Automated Patch-clamping Devices: An Integrated Approach to Ion Channel Drug Discovery**

*David Owen, CeNeS*

**Session III: Chip-based Technologies**

11:15 – 11:45 AM

**The Batch-Clamp:**

**An Integrated Platform for High Quality Electrophysiological Drug Screening**

*Jan Behrends, Nanion*

11:45 AM – 12:15 PM

**Title Yet to Be Announced**

*Jia Xu, Aviva Biosciences*

12:15 – 1:00 PM

**Lunch**

**Session IV: More Automated Patch Clamp Systems**

1:00 – 1:30 PM

**The CytoPatch™ Technology for Automated, Parallel and Asynchronous Patch-clamping**

*Alfred Stett, CytoCentrics & NMI, Reutlingen, Germany*

1:30 – 2:00 PM

**Title Yet to Be Announced**

*Morten Bech, Sophion Bioscience*

2:00 – 2:15 PM

**Break**

**Session V: More High Throughput Electrophysiology**

2:15 – 2:45 PM

**High-performance Automated Electrophysiology**

*Andy Blatz, Axon Instruments*

2:45 – 3:15 PM

**Recordings of HERG Currents using the Roboocyte™**

*Béla Kelety, IonGate, Germany*

3:15 – 3:30 PM

**Break**

**Session VI: Multielectrode Array Recording**

3:30 – 4:00 PM

**Recombinant Ion Channels on Silicon Chips, Capacitive Gating and Transistor Recording**

*Peter Fromherz, Department of Membrane and Neurophysics, Max Planck Institute for Biochemistry, Munich, Germany*

4:00 – 4:30 PM

**New Algorithms for Reconstruction of Intracellular Signals from Extracellular MEA Recordings of Myocytes**

*Ulrich Egert, Department of Biology, University of Freiburg, Germany*

4:30 – 5:00 PM

**New Drug Screening Tools Based on Multielectrode Arrays**

*Ed Conley, Amersham Biosciences*

5:00 – 5:15 PM

**Closing Remarks**

*Ian M. Herzberg, ALA Scientific Instruments*

# SATELLITE MEETING

**Drug Discovery for Ion Channels, III  
Advances in Electrophysiology and Assay Development**

FRIDAY, FEBRUARY 28, 2003

8:00 AM—5:15 PM

HENRY B. GONZALEZ CONVENTION CENTER, SAN ANTONIO

**REGISTRATION DEADLINE: FEBRUARY 14, 2003**

Name (First):  (Last):

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City:  State:

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Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Required Field – E-mail: \_\_\_\_\_

I require special accommodations to fully participate in the meeting.  
Describe briefly: \_\_\_\_\_

**Registration: (\$30.00)**

Please charge my credit card:  Visa  MasterCard  American Express  Discover

Credit Card #: \_\_\_\_\_

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Name as it appears on card: \_\_\_\_\_

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

My check is enclosed (make check payable to Biophysical Society in US funds drawn on a US bank).

Return this entire form to:  
Biophysical Society Office, 9650 Rockville Pike, Bethesda, MD 20814-3998; Fax: 301-530-7133  
(DO NOT fax form and then mail it.)

REGISTRATION IS LIMITED AND ACCEPTED ON A FIRST-COME, FIRST-SERVE BASIS.

## Biophysical Society Placement Service Expansion



*Rachel Laudadio*

The Early Careers Committee and the Biophysical Society (BPS) Office are working hard to update and expand the Society's job Placement Service. The Service has two components: a year-round electronic database service consisting of job advertisements and job seeker CVs, and a Placement Center at the Annual Meeting, where face-to-face interviews can be held. Both components are available free of charge to members of the Society; others can use the Service for a \$30 fee per posting, providing six months of job advertisement or CV listing on the Society web site. After this year's Annual Meeting, we received many comments and suggestions for improving the two components, via surveys that were distributed to all placement center participants. We are working hard to incorporate these suggestions into an expanded Placement Service.

First, letters will be sent out next month to a variety of government agencies and industry companies, inviting them to increase their recruitment through the BPS Placement Service. Similarly, letters will be sent to historically minority universities, inviting these institutions to use the Placement Service, in order to increase the number

of job advertisements from these institutions. We expect that by posting job advertisements via the Placement Service website and using the Placement Center at the Annual Meeting to interview prospective candidates, the increased exposure will be an advantage for both job seekers and recruiters. The Society charges non-members a \$30 fee for placing an advertisement (members can place a job advertisement, or a CV, for no charge). Compared to scientific journals and other society-based placement services, this fee is quite reasonable, and we expect this will be a major advantage in drawing potential employers.

Second, we are exploring ways to draw more job advertisements for positions other than postdoctoral fellowships and associateships. Each year, the Annual Meeting attracts a number of talented undergraduate students interested in biophysical research. Many of these students are looking for summer research opportunities, and we believe that the placement service can provide an attractive mechanism for connecting these students with information about summer research opportunities. We would also like to expand the offerings for post-postdoctoral jobs: in addition to the more traditional academic and industrial positions, a number of our members are interested in finding jobs in teaching and curriculum development, scientific writing and editing, working with foundations or national laboratories, or joining start-up companies or consulting. We hope to increase the diversity of opportunities in these areas in the next few years.

Third, a request we received from many users of the Placement Service at last year's Annual Meeting was that computers and printers be available for last-minute resume changes, checking the scheduling of interviews, and performing keyword searches through the database of job postings and candidate

CVs. We are working to make this available for the 2003 meeting.

Finally, the Early Careers Committee will submit a proposal for increased funding for the Placement Service, which will be discussed at the November meeting of the BPS Executive Board. In addition to the expanded Placement Center at the Annual Meeting (see above), we would like the Service to help prepare and inform job candidates by presenting seminars on relevant topics such as preparation of their cover letter, CV, and resume writing, protocols for job applications, interview and networking skills, deciding when you need the services of a headhunter, finding a mentor, choosing a career path, and exploring alternative science careers.

At the next Annual Meeting in San Antonio, watch for changes in the Placement Center hours. Operation hours will be expanded so that interviews can be scheduled and preparatory time allotted in the evenings. The job posting forms will also be upgraded to provide potential candidates and employers an opportunity to include details related to level of position requested, preferences for interview scheduling, desired skills, and so forth. We are also working to include folders for candidates and employers so they can provide publications and extra background material.

The largest factor in making the expanded Placement Service a success will be the participation of as many Society members as possible. Please remember the Placement Service when recruiting for academic, industrial, government, and other jobs for independent scientists, and consider using the Annual Meeting Placement Center to recruit for your institution's summer research programs for undergraduates.

— *Rachel Laudadio*  
Harvard School of Public Health

## Biophysical Society International Opportunities

*The Biophysical Society offers opportunities to help those from countries experiencing financial need.*

- Travel grants to attend the Biophysical Society Annual Meeting
- International courses in countries experiencing financial need
- Travel grants for non-US graduate students from countries in need to visit US labs

Information may be found at: [www.biophysics.org/committees/int-ops.htm](http://www.biophysics.org/committees/int-ops.htm)

► *International travel grants to attend the Biophysical Society Annual Meeting:*

The criteria for selection appears in the Call for Papers each year. Forms and information available at <http://www.biophysics.org>

► *International Courses in countries experiencing financial constraints:*

**Application letter should address the following criteria**

- Course and application must be from a Country experiencing financial need
- Workshop must be on a frontier theme or topic
- Quality of full program
- Excellence and productivity of proposed speakers
- Number of students
- Balance between international and local speakers
- Matching funds
- Facilities

► *Travel grant for non-US graduate students from countries in need to visit US labs :*

**Description and criteria for evaluation:**

- Applicant must reside in a country experiencing financial need
- Visit duration is short, 1-3 months, to a US lab to acquire skills that may be applied to PhD thesis in the country of residence
- Quality of the facility and research to be undertaken
- Funds cover only receipted costs of travel
- US laboratories involved must cover other living expenses
- Receiving laboratory PI must be Biophysical Society member or willing to join

Application letter from the applicant should contain information on all these aspects and biographical sketch (2 page maximum) of applicant and PI of receiving laboratory. In addition, application must include a letter of acceptance of US laboratory and letter from Ph.D thesis advisor describing the skill(s) that will be learned in the US-lab. Both letters should state how the living expenses will be paid. At the end of the stay, the awardee should send a summary statement to the Biophysical Society describing the skills acquired and their use towards PhD thesis. Deadline for submissions are: February 1 and August 1 of each year. Awards will be announced in November and February of each year.

Applications should be sent to:  
 Biophysical Society International Affairs Committee  
 9650 Rockville Pike  
 Bethesda, Maryland 20814

## Society Donors

The Society gratefully acknowledges the many 2002 members listed on the following pages who made donations to 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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Dogterom, Marileen	Finzi, Laura	Gershenson, Anne	Hanlon, M.
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Dratz, Edward	Fitzgerald, Elizabeth	Gilbert, Susan	Harrington, John

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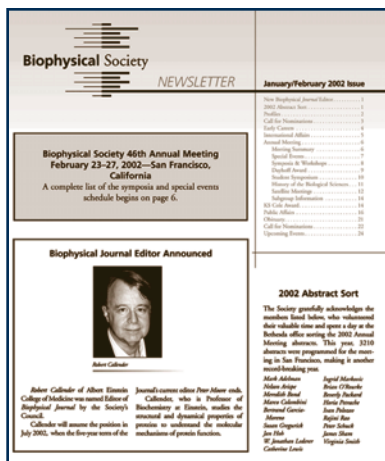
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 Zhou, Jun  
 Zhukovsky, Mikhail  
 Zorec, Robert  
 Zuazaga, Conchita  
 Zuckermann, Martin

## Biophysical Society Newsletter Receives Gold Ink Award



The Biophysical Society's bimonthly Newsletter has been awarded the Gold Ink Award in the Pewter Category.

The Gold Ink Award has been considered the nation's most prestigious competition in print publications. It is judged by a panel consisting of graphic artists, production managers and print buyers, and awarded in 40 categories.

The Biophysical Society publications were among nearly 1,800 entries submitted by organizations throughout the United States.

This is the third consecutive year that Society publications have received the award. In 2000, the 1999 *Directory of Members* was given the Pewter Award. In 2001, the 2000 *Directory of Members* and the 45th Annual Meeting Call for Papers received the same distinction.

**Biophysical Society Ballot Nomination Form**

Society bylaws allow for members to run for Council by petition. If you are interested in being on the 2003 ballot, nomination forms must be received by November 15, 2002.

Nominee: \_\_\_\_\_

Present Title/Department/Institution: \_\_\_\_\_

Nominee Biographical Data: Highest degree: \_\_\_\_\_ Year received: \_\_\_\_\_

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

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

Research Interests & Experience: \_\_\_\_\_

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

The undersigned members of the Biophysical Society hereby nominate \_\_\_\_\_ for the office of \_\_\_\_\_

**Signatures**

Signature

Typed Name

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_

**Statement by Nominee**

If I am elected to the office of \_\_\_\_\_, I agree to serve and to attend Council meetings as described in Article VIII of the Bylaws. My reason for running for the office is: \_\_\_\_\_

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

Mail completed form to:  
Secretary  
Biophysical Society  
9650 Rockville Pike, Bethesda, MD 20814-3998

(continued from page 9.)

ments under discussion in committee that might resolve this concern before the bill is passed.

## DOE Funding May Increase

In terms of science funding, the Department of Energy is often neglected; it receives enough funding to maintain its strength, but not enough to truly grow. Since 1990, DOE has remained at the same level of funding in constant dollars. While the NIH and NSF have undergone massive infusions of federally funded dollars, DOE languishes with limited funds. However, this year there was an effort to increase DOE's science funding.

The energy bill, H.R. 4, included a portion for the Office of Science to receive a hefty increase. Earlier this year, when the House passed H.R. 4, it contained a single 15% increase in the FY02 Office of Science budget. In addition, recently the Senate passed a version that allowed for a 9-15 percent increase for FY03 through FY06.

## Opportunities

### *Christine Mirzayan Science and Technology Policy Internship Program*

This Internship Program sponsored by National Academies is designed to engage graduate and postdoctoral students in science and technology policy and to familiarize them with the interactions among science, technology, and government.

Applications are now being accepted for the 2003 program, which will comprise three sessions.

- Winter: January 13 through April 4 (12 weeks with a possible 4 week extension).
- Summer: June 2 through August 8 (10 weeks).
- Fall: September 8 through November 26 (12 weeks).

To apply, candidates should submit an application and request their mentor fill out a reference form. Both are available on the Web at <http://national-academies.org/internship>. The deadline for applications is November 1 for the winter program, March 1 for the summer program, and June 1 for the fall program. Candidates may apply to all three programs simultaneously.

Additional details about the program and how to join our mailing list are also available on the Web site. Questions should be directed to: [internship@nas.edu](mailto:internship@nas.edu).

### *National Science Foundation NSF-NATO Postdoctoral Fellowships In Science and Engineering for Scientists from NATO Partner Countries (NSF/NATO) FY2003 Solicitation Guidelines (NSF 02-178)*

NSF and NATO invite applications for 12-month postdoctoral research fellowships from beginning scientists, mathematicians, and engineers from NATO Partner Countries only. For this competition, approximately 15-20 awards will be made to U.S. institutions that want to host visiting scientists from NATO Partner Countries (see program guidelines for countries). Awards will be announced in May 2003.

Eligible fields for support include research work in mathematics, engineering, computer and information science, geosciences, the physical, biological,

social, behavioral, and economic sciences, the history and philosophy of science, and interdisciplinary areas comprised of two or more of these fields. Also eligible for support under this program is research in the teaching and learning of science, mathematics, technology and engineering; research in bioengineering with diagnosis or treatment-related goals that applies engineering principles to problems in biology and medicine while advancing engineering knowledge; and bioengineering research to aid persons with disabilities.

A visiting fellow must have been awarded a doctoral degree (Ph.D. or equivalent) no earlier than five years before the due date of this competition but not later than December 10, 2002 and must be a citizen of a NATO Partner Country. Nominees must be living and working in their home country or another NATO partner country at the time the proposal is submitted. The visiting fellow must identify a specific U.S. sponsoring scientist holding a full-time position at a U.S. institution to serve as the sponsor. The U.S. sponsoring scientist will be the principal investigator on the fellowship proposal and will submit the proposal. One proposal per principal investigator or institutional department is allowed. Proposals to support a scientist from a NATO partner country may be subject to security review by the United States according to government policy.

Deadline is December 10, 2002 through FastLane. For additional information and criteria contact:

*Terry Woodin*, Program Director

Phone: (703) 292-8697

E-mail: [twoodin@nsf.gov](mailto:twoodin@nsf.gov)

E-mail: [nsf-nato@nsf.gov](mailto:nsf-nato@nsf.gov)

Web: <http://www.ehr.nsf.gov/dge/programs/nato>

## Upcoming Events

**November 10–14, 2002**

*2002 American Association of Pharmaceutical Scientists  
Annual Meeting and Exposition*

Toronto, Canada

<http://www.aapspharmaceutica.com>

**December 11–15, 2002**

*Electron Cryomicroscopy Single Particle Image Processing  
and Visualization Workshop*

Houston, TX

Contact: [sludtke@bcm.tmc.edu](mailto:sludtke@bcm.tmc.edu), [feinburg@bcm.tmc.edu](mailto:feinburg@bcm.tmc.edu)

<http://ncmi.bcm.tmc.edu/Workshop2002>

**June 19–June 24, 2003**

*XVIIth Symposium on Bioelectrochemistry and Bioenergetics*  
Florence, Italy

<http://www.beb2003.org/>

**August 24–27, 2003**

*8th Conference on Methods and Applications of Fluorescence:  
Spectroscopy, Imaging and Probes*

Prague, Czech Republic

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**Biophysical Society**

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