

Biophysical Society

Newsletter

November/December 2007 Issue

Table of Contents

Annual Meeting Highlights	1
Biophysicist in Profile	2
Annual Meeting	4
Career Events	6
Public Policy Events	4
International Affairs Events	4
Super Tuesday	9
Satellite Meetings	14
Subgroups	16
Public Affairs	16
Society Donors	20
Members in the News	22
Upcoming Events	24

Meeting Deadlines

Early Registration

December 7

General Housing Reservations

January 11

9650 Rockville Pike
Bethesda, Maryland
Phone: 301-634-7114
Fax: 301-634-7133
Email: society@biophysics.org

<http://www.biophysics.org>

Meeting Highlights

Abstract Sort

The Biophysical Society greatly appreciates the Program Committee and Council members who volunteered their time to sort and program the abstracts submitted for the Joint 52nd Annual Meeting of the Biophysical Society and 16th IUPAB Biophysics Congress. This year a record 3360 abstracts were programmed into four minisymposia, 60 platform sessions, and four day-long poster sessions. The Society would like to extend a special thank you to the following members who joined *Eduardo Perozo* and *Benoit Roux*, 2008 Program Co-Chairs, in sorting and scheduling the abstracts:

Paul Axelsen, Nathan Baker, Stephen Baylor, Marco Colombini, Nynke Dekker, Jose Cacas-Finet, Ana Maria Gomez, Felix Goñi, Enrico Gratton, Steven Gross, Kathleen Hall, Dorothee Kern, Jennifer Lippincott-Schwartz, Ruth Nussinov, Nils Petersen, David Piston, Rajini Rao, Sandy Ross, Suzanne Scarlata, Francis Separovic, R. John Solaro, David Warshaw, Toshio Yanagida, and Ming-Ming Zhou.

Satellite Meetings

Satellite meetings will be held on Friday, February 1, in Long Beach. For complete descriptions of the two satellite meetings see page 14. Registration forms may be found on page 15 of this newsletter and at www.biophysics.org.



Long Beach, California

Tours

New this year, attendees can register for tours of local attractions. Tour reservations will be taken on a first-come, first-serve basis. Each tour will pick up from and return to the Hyatt Regency Long Beach Hotel. All prices include transportation, tour guide, and entrance to attractions. To make your tour reservation, visit <http://www.biophysics.org/meetings/2008/biophysregister08.asp>.

L.A.'s Best Tour - \$57.50

Friday, February 1, 2008

9:00 AM-1:00 PM

Pacific Scenic and Getty Center Tour - \$77.50

Wednesday, February 6, 2008

9:00 AM-2:00 PM

Disneyland Tour - \$97.50

Thursday, February 7, 2008

9:00 AM- 7:00 PM

Additional meeting information begins on page 4.

Biophysical Society

Officers

President

Joseph Falke

President-Elect

Harel Weinstein

Past-President

Barry Lentz

Secretary

Dorothy Beckett

Treasurer

Mordecai P. Blaustein

Council

Paul H. Axelsen

Valerie Daggett

David Dawson

Sharyn Endow

Enrico Gratton

Ana Maria Gomez

Steven Gross

Kathleen Hall

Dorothee Kern

Ben de Kruijff

Jennifer Lippincott-Schwartz

Ruth Nussinov

Nils Petersen

David Piston

Rajini Rao

Lynne Regan

Gregory Reinhart

Suzanne Scarlata

Frances Separovic

R. John Solaro

Toshio Yanagida

Biophysical Journal

Editor-in-Chief

Edward Egelman

Executive Officer

Ro Kampman

Publications Manager

Dianne McGavin

Newsletter Production

Alisha Yocum

Profiles

Lee Bien & Rachel Elazar

Public Affairs

Ellen Weiss

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.

Copyright © 2007 by the Biophysical Society. Printed in the United States of America. All rights reserved.

Biophysicist in Profile



Susan Gilbert

Susan Gilbert, of Rensselaer Polytechnic Institute, in part credits her upbringing in the small town of Wakefield, Virginia, for her later interest in science. Gilbert spent most of her youth outdoors, finding nature more interesting than school. Her home, 4-H and Girl Scout activities created an environment filled with biology and life sciences. Her parents, Ruth and Lyle, owned a farm where they raised hogs, peanuts, corn and soybeans. Her mother was also a fourth grade teacher. For Gilbert and her brothers, Al and David, both now civil engineers, being outdoors was their activity of choice.

After playing tennis and softball through high school, Gilbert traded bats for books when she entered Randolph Macon Women's College in Lynchburg, Virginia.

"I find that teaching helps my research program and doing research makes me a better teacher. . ."

The rigorous academics, excellent math and science program, and great lab facilities were just what Gilbert was looking for. "I became hooked on research very early. It started in my freshman labs and then sophomore year with organic chemistry. I absolutely loved it," she says enthusiastically. Randolph-Macon provided ample opportunities for individual growth, including independent research

over breaks and the chance to give a presentation at a local meeting of the American Chemical Society, of which she remains a member. Gilbert quickly became hooked on chemistry, which she chose as her major.

After graduation, Gilbert moved to Vermont with her husband, Mallory, an environmental consultant specializing in wetlands. There, Gilbert took a research position with Robert Allen in the Biological Science Lab at Dartmouth. She loved the job, which only lasted one year, and the experience convinced her to pursue research and enter graduate school. Because she enjoyed the research and environment at Dartmouth, she decided to remain there for her PhD.

Her two mentors, Robert Allen and Roger Sloboda, provided support and guidance coupled with wide berth. "I think that they both gave me a tremendous amount of independence to pursue the research project I was interested in," she explains. "I was able to go to Woods Hole to the Marine Biological Laboratory every summer to do research. My experiments were on organelle movements in squid axoplasm—that was where my interest in molecular motors began." It was during her graduate training that Gilbert developed her expertise in microscopy and also biochemistry to purify axoplasmic organelles and molecular motor proteins.

After receiving her PhD under Sloboda, her research led her to Ken Johnson's lab at Pennsylvania State

University, where she did her postdoc. "Ken was the only person at the time doing transient state kinetics on motor proteins that interacted with microtubules," she explains. "Everyone else was working on actomyosin." In Johnson's lab Gilbert learned the mechanistic approaches (stopped-flow and rapid quench) to define the ATPase cycle that generates the force for microtubule-dependent movement and/or dynamics. She continues to use these biophysical techniques today.

Gilbert moved to the University of Pittsburgh as an assistant professor in 1995. There she worked primarily with graduate students, although she typically had about two undergraduates in her lab each year. Her research focused on a number of different kinesins using transient state kinetics

accelerate that timeline, then students need to be trained across disciplines.” She intends to focus on that through her leadership, teaching, and research.

Claire Walczak, Associate Professor of Biochemistry and Molecular Biology at Indiana University, who

“if we want to accelerate that timeline, then students need to be trained across disciplines.”

in combination with more traditional biochemistry and imaging approaches. She learned that each molecular motor has subtle changes in its ATPase cycle that enables it to do its specific job in the cell.

“My research bridges cell biology and biophysics, which is what Rensselaer is really strong in,” says Gilbert about moving to Rensselaer this past September to join the Center of Biotechnology and Interdisciplinary Studies. A number of colleagues, including former mentor Sloboda and Claire Walczak, are graduates of Rensselaer. Robert Palazzo, the current Provost and previous Chair of the Biology Department, has been a colleague of Gilbert’s since her days at the MBL. It was their influence that persuaded Gilbert to take the position as Head of the Department of Biology.

Gilbert was also familiar with Rensselaer and its interdisciplinary approach to research and education through her daughter Emmeline, a junior in the Mechanical Engineering-Product Design and Innovation Program. It was the interdisciplinary nature of the research at Rensselaer that attracted Gilbert immediately. “If we expect to accelerate the translation from basic research in the lab to actual application, whether its medicine, energy concerns, or regardless of what the overall purpose is,” explains Gilbert, “if we want to

worked with Gilbert, says she’s the ideal person to accomplish this. “I think her new position is so well suited for her,” explains Walczak. “She is an outstanding leader with a vision. Susan will thrive in the multidisciplinary environment, and she has the most productive undergraduate students of anyone I know,” says Walczak referring to how most of Gilbert’s undergraduates pursue a career in science or medicine. “With that combination I see her as the Chair of a newly refined department that is both interdisciplinary and has new and innovative programs in undergraduate education,” says Walczak. Gilbert also likes the emphasis that Rensselaer is putting on undergraduate education to give

“You are always able to have new puzzles and new ways to solve the puzzle.”

students a good base across disciplines and in the physical and informational sciences.

Part of Gilbert’s commitment is to train undergraduates in the lab as part of their life-sciences education. She notes that the way undergraduates approach science and the questions they ask instill creativity and innovation in the lab. “I find that teaching helps my research program and doing research makes me a better teacher,” she says. Her research continues to look at a variety of kinesins to under-

stand how their ATPase cycles are linked to force generation. The focus now is more on motors that play a role in mitosis, either through regulating microtubule dynamics or through generating movement. Gilbert is currently working on a study with Ivan Rayment, Professor of Biochemistry at the University of Wisconsin, on Vik1, which appears to have the fold of a kinesin or myosin,

yet it does not have a nucleotide binding site. Thus, they are motors that generate conformation changes but without nucleotide turnover. The finding is exciting with important implications. “Susan is incredibly thorough, but not boring,” says Rayment. “She thinks very deeply about her scientific problems and those of others.”

Gilbert started coming to the Biophysical Society Annual meetings to talk with people involved in similar research and scientists using the same mechanistic approaches. She’s been pleased to see interest in molecular motors grow within the Society. Gilbert has also become involved in Society committees and is currently Chair of the Membership Commi-

tee, on the BJ Editorial Board, and was just elected to the Society Council. “One of the nice things about being on any of the committees or being on council as I am now, is that it not only allows you to play a role in terms of the growth and development of the Society, but it also enables you to mentor junior people, so they will become active members.” She is also a member of the American Society for Cell Biology and serves on the editorial boards of *The Journal of Biological Chemistry*, *Nanomedicine*:

(Continued on page 22.)

MEETING SUMMARY

Satellite Meetings will be held on Friday, February 1. See page 14 for more details.

Summary is subject to change. Please check the final schedule in the meeting program.

	Saturday FEBRUARY 2	Sunday FEBRUARY 3	Monday FEBRUARY 4	Tuesday FEBRUARY 5	Wednesday FEBRUARY 6
7:30 AM		Postdoctoral Breakfast	Graduate Student Breakfast		
8:00 AM		Placement Service (8:00 am–5:30 pm)	Placement Service (8:00 am–5:30 pm)	BPS Business Meeting Placement Service (8:00 am–5:30 pm)	Placement Service (8:00 am–12:00 noon)
8:15 AM		Symposium 1: The Biophysics of the Immune Response Symposium 2: Mechanoenzymes Platform Sessions A–E	Symposium 7: Translation and the Translocon Symposium 8: Imaging and Cellular Dynamics in vivo using Light Platform Sessions P–U	Symposium 13: Voltage-dependent Proton Channels Come of Age Symposium 14: Mechanisms of Exo- and Endocytosis Platform Sessions AG–AL	Symposium 18: Damaged Proteins- Structural & Biological Consequences Symposium 19: Allostery and Dynamics in Protein Function Platform Sessions AX–BC
9:00 AM	Bioenergetics Subgroup Molecular Biophysics Subgroup				
10:00 AM	Intrinsically Disordered Proteins Subgroup	Exhibits (10:00 am–5:00 pm)	Exhibits (10:00 am–5:00 pm)	Exhibits (10:00 am–5:00 pm)	
10:15 AM		Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30 AM		Undergraduate Student Symposium	New Member Welcome Coffee		
10:45 AM		Symposium 3: Membrane Protein Structure: Freed from the Lattice Symposium 4: Putting the Move on Myosin Minisymposium 1: Structure-Function of Oxidative Pathway Proteins Platform Sessions F–I	Symposium 9: RNA in Action Symposium 10: Ca ⁺⁺ Signaling: From the Plasma Membrane to the Nucleus Minisymposium 2: Structural Refinement & Modeling Guided by Low-Resolution Experimental Data Platform Sessions V–Z	Symposium 15: Awards Symposium & Engström Plenary Lecture Minisymposium 3: Inactivation and Desensitization Mechanisms in Ion Channels Platform Sessions AM–AQ	Symposium 20: ABC Transporters: Molecular Structures & Mechanisms Symposium 21: Nucleic Acid-based Motors Minisymposium 4: The Physics of Protein Folding/Unfolding Platform Sessions BD–BH
11:00 AM	Permeation & Transport Subgroup				
12:00 NOON	Motility Subgroup Placement Service (12:00 noon–7:00 pm)	Career Roundtable Luncheon International Travel Grant Luncheon		Panel Luncheon: Transition from Postdoc to Faculty	
1:00 PM	Membrane Biophysics Subgroup Biological Fluorescence Subgroup Exocytosis & Endocytosis Subgroup Membrane Structure & Assembly Subgroup	Graduate Institution Fair Panel–Negotiating the Transition to an Academic Job	Biophysical Journal Images Workshop Session 1: Introductory & Intermediate Users Workshop Panel Discussion–Design, Content & Execution of Biophysics Courses IUPAB General Assembly	Biophysical Journal Images Workshop Session 2: Advanced Users Workshop The Teaching of Evolution: Weighing in as a Professional Scientist	Poster Sessions (1:00–3:00 pm) Late Poster Session (1:00–3:00 pm)
1:30 PM			Workshop: How (Not) to Write Your NIH Grant Proposal	Panel–Funding Opportunities for Faculty at PUI Institutes	
1:45 PM		Poster Sessions (1:45 pm–3:45 pm) Snack Break	Poster Sessions (1:45 pm–3:45 pm) Snack Break	Poster Sessions (1:45 pm–3:45 pm) Snack Break	
2:00 PM	IUPAB Council Meeting		Workshop on International and Collaborative Research Opportunities and Grantsmanship for Scientists from Developing Countries		IUPAB Council
2:30 PM		Panel Discussion–Biophysics and the Energy Crisis: What We Are Doing, What We Can Do, and How.	Panel–Getting Paid and Other Negotiations Skills		
2:30 PM			Panel–Pathway to Independence Award: When and How to Apply		
4:00 PM		Symposium 5: Driving Forces in Macromolecular Binding Symposium 6: EGF Receptor Signaling and Networks Platform J–O	Symposium 11: Collective Motor Dynamics in Cell Division Symposium 12: Non-conducting Functions of Ion Channels Platform Sessions AA–AF	Symposium 16: New and Notable Symposium 17: From Protein Crystals to Amyloid Fibrils (APS/BPS) Platform Sessions AR–AW	
5:00 PM	Opening Mixer Early Careers Committee Meet & Greet				
6:00 PM		SRAA Poster Competition		BPS Council	
6:30 PM	Student Travel Grant & Minority Biophysicists Awardees Reception				
7:00 PM				IUPAB G.N. Ramachandran Plenary Lecture	
7:30 PM		Workshop 1: Modeling the Membrane Workshop 2: Single Molecule Biophysics Workshop 3: Structural Genomics: A Discussion			
8:00 PM			Awards Ceremony, National Lecture & Kachalski Lecture		
9:30 PM			Annual Meeting Reception & Dance		

Career Center

Stop by the Onsite Career Center in Long Beach in Room 202AB. Open to all meeting attendees, this center allows both employers and job applicants to access job postings and resumes, as well as schedule onsite interviews. Ed Bocko, Jr. will be back again to lead career development workshops throughout the meeting and provide 1-on-1 resume critiques. The workshop schedule is listed below. Also, career resource publications will be available to all attendees in the Career Center. Please come prepared with resumes, CVs, etc.

Biophysical Society Career Development Workshop Schedule

February 2—6, 2008

Saturday, February 2, 2008

1:00-5:00 PM 1-on-1 Resume Critiques (twelve 20-minute sessions by appointment only)

Sunday, February 3, 2008

10:00 AM Creating a Competitive Life Science Resume

11:30 AM The Importance of Business Correspondence: Cover, Broadcast and Follow-Up Letters

1:30 PM ED's TOP TEN: Ten Ways to Ensure a Positive and Lasting First Impression in the Employment Arena

2:30 PM 1-on-1 Resume Critiques (six 20-minute sessions by appointment only)

4:30 PM Interview Basics

Monday, February 4, 2008

9:00 AM 1-on-1 Resume Critiques (three 20-minute sessions by appointment only)

10:00 AM Your Job Search: A Sequential Process with Different Goals at Each Step of the Way

11:30 AM Uncovering the Hidden Job Market: Tactics That Work

1:30 PM Creating a Competitive Life Science Resume

2:30 PM Career Open Forum: Career Q&A Session

4:00-6:00 PM 1-on-1 Resume Critiques (six 20-minute sessions by appointment only)

Tuesday, February 5, 2008

9:00 AM 1-on-1 Resume Critiques (three 20-minute sessions by appointment only)

10:00 AM So, You Don't Want to Work at the Bench Anymore? Planning your Career Transition in the Sciences

11:30 AM ED's TOP TEN: Ten Ways to Ensure a Positive and Lasting First Impression in the Employment Arena

1:30 PM The Truth About References and Reference Checking

3:00-5:00 PM 1-on-1 Resume Critiques (six 20-minute sessions by appointment only)

Career Events

Postdoctoral Breakfast

Sunday, February 3, 7:30 - 8:30 AM

Discussion will focus on the career development activities of the Early Careers Committee, plans for future events, and other issues facing the Early Career members of the Society.

Career Roundtable Luncheon

Sunday, February 3, 12:00-2:00 PM

This popular working luncheon, sponsored by the CPOW, will address several career-related issues to help those early in careers navigate the complex waters of a faculty-level research career. Topics will include conflict resolution, how to establish a successful collaboration, where to look for alternative research funding, and how to select a good group of mentors for career development. Approximately one dozen established investigators with expertise in one or more of the discussion areas and a keen desire to mentor will participate in this event. The luncheon begins with each table holding a roundtable discussion on a given topic and ends with a summarization of each topic, providing a forum for all participants to learn from each roundtable discussion. Pre-registration is required and fee will include a box lunch. Registration form may be found at www.biophysics.org.

Negotiating the Transition to an Academic Job

Sunday, February 3, 1:00-2:30 PM

This popular series, hosted by the BPS Early Careers Committee, will provide advice on how to find tenure-track faculty posts at research-intensive US universities, positions at primarily teaching institutions, and academic jobs outside the United States.

Getting Paid and Other Negotiations Skills

Monday, February 4, 2:30-3:30 PM

It is no secret that negotiating skills are key to a successful career in Biophysics. This panel, organized by CPOW, will present speakers who have been highly successful in negotiating for salary, equipment, space and other resources. If you are interested in learning

skills that will help you obtain the resources you need to succeed in your career, plan to attend this informative session. Panelists include *Mary Barkley*, Case Western Reserve University; *Ken Dill*, University of California, San Francisco; *Ronald Kaback*, University of California, Los Angeles, and *Gregory Kaczorowski*, Merck Research Laboratories.

Pathway to Independence Award: When and How to Apply

Monday, February 4, 3:00-4:00 PM

William Balke, Senior Associate Dean for Research at the University of Kentucky, will present a workshop on this NIH award, which provides funds for the transition from postdoctoral fellow to independent researcher.

Transition from Postdoc to Faculty Luncheon

Tuesday, February 5, 12:00-2:00 PM

This 'Question and Discussion' luncheon, co-chaired by the Early Careers and CPOW Committees, is designed for those finishing a postdoc and actively applying for academic faculty positions. Four new or recently-tenured faculty members in basic science or medical school departments will lead the discussion. The topics of discussion will include how to look for an academic position, aspects of interviewing, negotiating the job offer, and advice for new faculty as they balance research with their departmental obligations. Pre-registration is required and fee will include a box lunch.



Nathan Baker



Aldrin Gomes



Amy Harkins

Panelists include *Nathan Baker*, Washington University; *Erin Sheets*, Pennsylvania State University, *Aldrin Gomes*, University of California, Davis, and *Amy Harkins*, Saint Louis University.

Public Policy Events

Biophysics and the Energy Crisis: What We Are Doing, What We Can Do, and How.

Sunday, February 3, 2:30-4:00 PM

This session will provide an overview of the current U.S. politics regarding energy, as well as the role of biophysics research in alternative fuel supplies. The panel will include *Nathan S. Lewis*, California Institute of Technology.

Workshop: How (Not) to Write Your NIH Grant Proposal

Monday, February 4, 1:30-3:30 PM

Through mock study sections, veteran NIH officials will demonstrate what review panels look for when they read and rank proposals. They will also explain how to communicate with funding agencies prior to submitting a proposal. Panelists include Jean Chin, NIGMS, NIH; *Charles Edmonds*, NIGMS, NIH; *Catherine Lewis*, NIGMS, NIH; *John Norvell*, NIGMS, NIH; and *Donald L. Schneider*, CSR, NIH.



Jean Chin



Charles Edmonds



Catherine Lewis



John Norvell



Donald L. Schneider

The Teaching of Evolution: Weighing in as a Professional Scientist

Tuesday, February 5, 2:30-4:30 PM

Following last year's successful session that provided an overview on the current state and local level fights over the teaching of evolution in K-12 science classrooms, this year's event will examine ways individual scientists can weigh in on the debate, as well as other science policy matters. This panel will include *Eugenie Scott*, the Executive Director of the National Center for Science Education.

International Affairs Events

Workshop on International and Collaborative Research Opportunities and Grantsmanship for Scientists from Developing Countries

Tuesday, February 5, 2:00 PM - 3:30 PM

This workshop intends to bring postdoctoral fellows and principal investigators up-to-date on the collaborative research programs sponsored by the Fogarty International Center (FIC) of NIH. Specifically, this workshop will go over the Fogarty International Research Collaboration Award in Basic Biomedical



Manana Sukhareva

Science, the Global Research Initiative Program in Basic Biomedical Science, and the Brain Disorders in the Developing World: Research across the Lifespan Program. *Manana Sukhareva*, Scientific Review Officer, CSR, NIH, will be the speaker.

Education Events

Design, Content and Execution of Biophysics Courses

Monday, February 4, 1:00-2:30 PM

Are you a biophysics teacher seeking the most up-to-date teaching methods in biophysics? Then don't miss this Education Committee panel that will feature speakers presenting and discussing their personal experiences with the development and best teaching practices for courses in biophysics. Panelists will include *Patrick Dillon*, Michigan State University, and *Phil Nelson*, University of Pennsylvania.

Funding Opportunities for Faculty at Primarily Undergraduate Institutions

Tuesday, February 5, 1:30-2:30 PM

This session, hosted by the Education Committee, will be aimed at helping faculty at Primarily Undergraduate Institutions (PUI) establish and maintain successful research programs in biophysics. Don't miss out on this opportunity to hear first-hand experiences of panel members from various funding agencies and PUI faculty who have active, externally funded undergraduate research programs.

Student Events

Undergraduate Student Symposium Program

Sunday, February 3, 10:30 AM – 1:00 PM

This program, sponsored by the Education Committee, introduces college and university undergraduates to research and career opportunities in biophysics through a seminar in emerging topics in biophysics and the Emily M. Gray award lecture. A special graduate institution fair will follow the symposia.

10:30 AM-11:00 AM
Reception

11:00 AM-11:20 AM
What is Biophysics?

Richard Ludescher, Rutgers University

11:30 AM - 12:15 PM

Nature Cares about Kinetics.

Donald Crothers, Yale University

12:15 PM - 1:00 PM

Structural Biophysics of Aggregation Diseases

David Eisenberg, University of California,
Los Angeles

**Visit www.biophysics.org for
a complete listing of all
meeting events.**

Annual Meeting Travel Discounts

Don't forget to use the following codes for discounts when booking flights or car rentals for the Joint Meeting. Visit <http://www.biophysics.org/meetings/2008/> for complete details.

American Airlines —Code #A7218AH

United—Code #557NE

Avis—Code #D757101

Hertz—Code #CDP# 1681372 &
Promotional Code #105173

Visa Information

Interview requirements for obtaining a visa may now be more stringent than in years past, and visas may take longer to approve. All international attendees who need to obtain a visa to enter the United States are urged to contact the nearest US Embassy or Consulate and begin the application process as soon as possible, but no later than three months before the meeting.

- For official information on the visa application process please visit <http://travel.state.gov/visa> or <http://www.nationalacademies.org/visas>.
- Visa wait times can be found at http://travel.state.gov/visa/temp/wait/tempvisitors_wait.php.
- A listing of US Embassies and Consulates worldwide may be found at <http://usembassy.state.gov/>.

Housing deadline: January 11, 2008

Each year the Biophysical Society sets up a housing block across several hotels in the city where the Annual Meeting is held to offer the best accommodations and most competitive nightly rates for meeting attendees. As a meeting attendee it is important for you to book your hotel room in the BPS housing block because the Housing Bureau guarantees rates and hotel rooms for meeting attendees in the event of overbooking, construction, or problems with a room. The Housing Bureau is in place to immediately serve meeting attendees by taking care of any problems that arise for individuals who have booked through the service.

Reservations are on a first-come, first-served basis, so make your reservations early. For more information visit www.biophysics.org.

Vote by Absentee Ballot. Twenty-three States Will Hold Elections During BPS Annual Meeting

In an effort to increase the impact of the state's election results on the selection of the major party candidates for President, many states have moved up their primaries/caucuses to the first Tuesday of February. Previously referred to as "Super Tuesday," many in the media and politics are now referring to it as "Super Duper Tuesday," and "National Primary Day."

If you live in one of the twenty-two states scheduled to hold its Primary/Caucus during the BPS Annual Meeting, you may be able to get an absentee ballot and vote by mail. You must already be registered to vote in order to vote absentee. Most states require you to register 15-30 days prior to an election.

If you are eligible, you should request an absentee ballot from your state. Deadlines vary from state to state, so it is best to contact your state elections office as soon as possible. Your state will send you the ballot; you fill it out and mail it. In most cases, the deadline for the state to receive the form is by close of the polls on Election Day, but in a few states the ballot must be postmarked or received a few days prior to the election.

Visit <http://www.newvotersproject.org/absentee-ballots> to get state-specific information. Unfortunately, if you are a resident of Illinois or Tennessee and this is your first time voting in the state, you must vote in person. Some states also offer early voting, when you can go to a designated polling place or county office to vote prior to Election Day. Information on early voting is available at <http://www.newvotersproject.org/early-voting>.

State-By-State 2008 Primary & Caucus Schedule

Below are the state primaries and caucuses tentatively scheduled for February 1-6, 2008. It is possible that some dates may change and/or additional states will hold their primaries/caucuses during this time period based on actions by state officials or legislatures. Unless otherwise noted, both parties plan to hold their primary/caucus on the listed date.

February 1
Maine (Republican)

February 2
South Carolina (Republican)

February 5
Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Georgia, Idaho (Democratic), Illinois, Kansas (Democratic), Minnesota, Missouri, New Jersey, New Mexico (Democratic), New York, North Dakota, Oklahoma, Tennessee, and Utah

Considering February 5: Montana, North Carolina, and Pennsylvania

Attendees Receive Complimentary Meeting Registration

Sunisa Chaiklieng and *Manuel Prieto* are the winners of the 2008 complimentary meeting registration. All attendees of the 51st Annual Meeting who completed and returned a survey during the meeting were eligible for the drawing. Congratulations to both winners!



Sunisa Chaiklieng



Manuel Prieto

Symposia**Sunday, February 3**

8:15 AM-10:15 AM

Symposium 1: The Biophysics of the Immune Response.*E. Yvonne Jones*, University of Oxford, United Kingdom, Chair.**CRAC Channel and T-Cell Response.***Michael Cabalan*, University of California, Irvine.**How T Cells "See" Antigen.***Arup Chakraborty*, Massachusetts Institute of Technology.**Structural Aspects of MHC Class II Proteins.***E. Yvonne Jones*, University of Oxford, United Kingdom.**Molecular Imaging of the Immunological Synapse.***Abraham Kupfer*, Johns Hopkins University.**Symposium 2: Mechanoenzymes.***Susan P. Gilbert*, Rensselaer Polytechnic Institute, Chair.
F¹F_o ATPase.*Michael Boersch*, University of Stuttgart, Germany.**Kinesin Head-Head****Communication to Modulate Microtubule-Motor Interactions.***Susan P. Gilbert*, Rensselaer Polytechnic Institute.**Flexibility in Dynein Motor Function.***Erika Holzbaur*, University of Pennsylvania.**Lever Mechanisms in Protein Motors.***Peter Knight*, University of Leeds, United Kingdom.

10:45 AM – 12:45 PM

**Symposium 3
Membrane Protein Structure: Freed from the Lattice.***Marc Baldus*, Max Planck Institute of Biophysical Chemistry, Germany, Chair.**Solid-State NMR Applied to Membrane Proteins.***Marc Baldus*, Max Planck Institute of Biophysical Chemistry, Germany.**Insights into Disulfide Bond Formation in the Perioplasm.***John Bushweller*, University of Virginia.**K Channel.***Roland Riek*, The Salk Institute.**Structural Studies of the Voltage-dependent Anion Channel VDAC1.***Gerhard Wagner*, Harvard University.**Symposium 4: Putting the Move on Myosin.***Piotr Fajer*, Florida State University, Chair.**Molecular Movements Associated with Force Generation.***Piotr Fajer*, Florida State University.**X-Ray Crystallography of Myosin Intermediates.***Anne Houdusse*, Institute Curie, France.**The Molecular Mechanism of the Activation of Myosin Filaments.***Raul Padron*, Venezuelan Institute for Scientific Research (IVIC).**Concerted Movement in Myosin.***Ronald Rock*, University of Chicago.

4:00 PM-6:00 PM

**Symposium 5:
Driving Forces in
Macromolecular Binding.***Anthony Kossiakoff*, University of Chicago, Chair.**Complexity in Binding Sites.***Anthony Kossiakoff*, University of Chicago.**Biophysics of Interactions in Non-globular Proteins.***Elizabeth Komives*, University of California, San Diego.**Thermodynamics of Binding.***John Ladbury*, University College London, United Kingdom.**Computations of Binding, Recognition.***Johan Aqvist*, University of Uppsala, Sweden.**Symposium 6: EGF Receptor Signaling and Networks.***Kate Ferguson*, University of Pennsylvania, Chair.**Extracellular Control of EGF Receptor.***Kate Ferguson*, University of Pennsylvania.**Structural and Mechanistic Insights into the EGFR T790M "gatekeeper" Resistance Mutation.***Michael Eck*, Dana-Farber Cancer Center Institute, Harvard Medical School.**PIP2, Calmodulin and the Juxtamembrane Region of the EGFR.***Stuart McLaughlin*, SUNY Stony Brook.**Cell Signaling by Receptor Tyrosine Kinases: From Basic Concepts to Cancer Therapy.***Joseph Schlessinger*, Yale University School of Medicine.**Monday, February 4**

8:15 AM- 10:15 AM

Symposium 7: Translation and the Translocon.*Arthur Johnson*, Texas A&M University System Health Science Center, Chair.**FRET-detected Nascent Protein Folding Inside the Ribosomal Exit Tunnel.***Arthur Johnson*, Texas A&M University System Health Science Center.**Dynamics and Regulation of the Sec61 Channel.***Richard Wagner*, University Osnabrueck, Germany.

Sec61-mediated Membrane Protein Integration.

William Skach, Oregon Health & Sciences University.

Observing Protein Translocation in SecY and a SecY-Ribosome Complex through Molecular Dynamics.

Klaus Schulten, University of Illinois, Urbana.

Symposium 8: Imaging and Controlling Cellular Dynamics in vivo Using Light.

Mark Schnitzer, Stanford University, Chair.

New Optical Tools for Controlling Neuronal Activity.

Alexander Gottschalk, University of Frankfurt, Germany.

Control of GPCR Pathways and Neuronal Circuits by Light.

Stefan Herlitze, Case Western Reserve University.

Interplay between Single-Cell and Multi-cellular Signaling during Glucostimulated Insulin Secretion.

David Piston, Vanderbilt University.

High-Speed Imaging of Cellular Dynamics in Freely Moving Mice Using Portable Fluorescence Microscopy.

Mark Schnitzer, Stanford University.

10:45 AM – 12:45 PM

Symposium 9: RNA in Action.

Joseph Piccirilli, University of Chicago, Chair.

Structure and Function of the HDV Ribozyme.

Philip Bevilacqua, Pennsylvania State University.

Ribosome Structure and Dynamics.

Harry Noller, University of California, Santa Cruz.

Chemistry of RNA Catalysis.

Joseph Piccirilli, University of Chicago.

Adapting tRNAs to the Ribosomal Active Site.

Olke Uhlenbeck, Northwestern University.

Symposium 10: Ca⁺⁺ Signaling: From the Plasma Membrane to the Nucleus.

Barbara Ehrlich, Yale University, Chair.

Nuclear Calcium-regulated Genomic Programs Involved in Neuronal Survival and Plasticity.

Hilmar Bading, University of Heidelberg, Germany.

Growth Factors, Cell Growth and Calcium Signaling in the Nucleus.

Fatima Leite, Federal University of Minas Gerais, Brazil.

Local Regulation of IP₃ Receptors.

Barbara Ehrlich, Yale University.

New Channels and Intracellular Calcium.

David Clapham, Children's Hospital, Boston.

4:00 PM – 6:00 PM

Symposium 11: Collective Motor Dynamics in Cell Division.

Fred MacKintosh, Free University, Amsterdam, Chair.

Light Microscopy of Kinetochore Protein Architecture and Mechanisms Achieving Spindle Bipolarity.

Ted Salmon, University of North Carolina.

Large-scale Coordination of Actin Polymerization Forces.

Julie Theriot, Stanford University.

Non-Equilibrium Dynamics of the Cytoskeleton.

Fred MacKintosh, Free University, Amsterdam.

Observing and Affecting Cell Division.

Tarun Kapoor, Rockefeller University.

Symposium 12: Non-conducting Functions of Ion Channels.

Federico Sesti, UMDNJ Robert Wood Johnson Medical School, Chair.

Sodium Channel Beta Subunits: Channel Modulators and Cell Adhesion Molecules.

Lori Isom, University of Michigan.

Role of an Ion Channel Regulatory Protein Complex in Neuronal Physiology and Behavior.

Irwin Levitan, University of Pennsylvania.

MPS-1 Is a Serine/Threonine Kinase.

Federico Sesti, UMDNJ Robert Wood Johnson Medical School.

Oxidoreductase Activity of B-Subunits.

Ming Zhou, Columbia University.

Tuesday, February 5

8:15 AM – 10:15 AM

Symposium 13: Voltage-dependent Proton Channels Come of Age.

Thomas DeCoursey, Rush University, Chair.

Functional Properties and Mechanisms.

Thomas DeCoursey, Rush University.

Proton Channels in Phagocytes.

Nicolas Demaurex, University of Geneva, Switzerland.

Molecular Identification of V-dependent Proton Channels.

Yasushi Okamura, Okazaki Institute, Japan.

Toxins Interacting with Paddle Motifs in Voltage-sensing Proteins.

Kenton Swartz, NINDS, National Institutes of Health.

Symposium 14: Mechanisms of Exo- and Endocytosis.

Timothy Ryan, Cornell University, Chair.

Vesicle Recycling.

Timothy Ryan, Cornell University.

Dynamin Structure.

Jenny Hinshaw, NIDDK, National Institutes of Health.

SNARE Proteins and Trafficking.

Tao Xu, Chinese Academy of Sciences.

Intermediates of
Fusion Mechanism.
Yeon-Kyun Shin, Iowa
State University.

10:45 AM – 1:30 PM

Symposium 15: Awards Symposium/ Engstrom Lecture.

Joseph Falke, University of Colorado
at Boulder, Chair.

Biophysical Society Awardees
U.S. Genomics Award for Outstanding
Investigator in the Field of Single
Molecule Biology

Steven M. Block, Stanford University.

Anatrace Membrane Protein Award

H. Ronald Kaback, University of
California, Los Angeles.

Margaret Oakley Dayhoff Award

Judith Klein-Seetharaman, University
of Pittsburgh School of Medicine.

Avanti Award in Lipids

Ben de Kruijff, Utrecht University,
The Netherlands.

Michael & Kate Bárány Award for
Young Investigators

Sergei Sukharev, University of
Maryland, College Park.

Founders Award

Peter Wolynes, University of
California, San Diego.

IUPAB Awardee

Arne Engström Lecture

Tinkering with a Cellular
Nanomachine by a
Minimalist Approach.

Ueli Aebi, University of
Basel, Switzerland.

4:00-6:00 PM

Symposium 16: New and Notable.

Chair and Speakers to be announced.

Symposium 17: From Protein Crystals to Amyloid Fibrils: Condensed Colloidal Phases in Biology.

(Symposium co-sponsored by the American
Physical Society)

Martin Muschol, University of South
Florida, Chair.

Phase Transitions in
Protein Solutions.

Aleksey Lomakin, Massachusetts
Institute of Technology.

Morphology of Dense
Colloidal Phases.

David Weitz, Harvard University.

Alzheimer's Disease: Computation
and Experiment.

H. Eugene Stanley, Boston University.

Nucleation in Supersaturated
Protein Solutions.

Martin Muschol, University of
South Florida.

7:00 PM – 8:00 PM

IUPAB Lecture

G.N. Ramachandran Award Lecture
Magnetic Resonance Studies
on Spermatozoa.

Girjesh Govil, Tata Institute of
Fundamental Research, India.

Wednesday, February 6

8:15 AM – 10:15 AM

Symposium 18: Damaged Proteins – Structural and Biological Consequences.

Phoebe Stewart, Vanderbilt
University, Chair.

Proteome Dynamics—Paramaterising
Protein Turnover on a Global Level.

Robert Beynon, University
of Liverpool.

The Molecular Basis of
Alzheimer's and other Protein
Misfolding Diseases.

Louise Serpell, University of Sussex,
United Kingdom.

The Proteasomes Regulatory
ATPases Stimulate Protein

Degradation by Using a “Key-in-a-
lock” Mechanism to Open the Gate
in the 20S Particle.

David Smith, Harvard
Medical School.

CryoEM Studies of Small Heat-
Shock Proteins.

Phoebe Stewart, Vanderbilt
University.

Symposium 19: Allostery and Dynamics in Protein Function.

Anthony Auerbach, SUNY,
Buffalo, Chair.

Allostery and Dynamics in Protein
Function.

Thomas Alber, University of
California, Berkeley.

Conformational Waves
in Receptors.

Anthony Auerbach, SUNY, Buffalo.

Dynamic Personalities of Proteins,
Key for Catalysis and Signaling.

Dorothee Kern, Brandeis University.

Trapping Allosteric Transitions
in Caspases.

James Wells, University of California,
San Francisco.

10:45 AM – 12:45 PM

Symposium 20: ABC Transporters: Molecular Structures and Mechanisms.

Hassane Mchaourab, Vanderbilt
University, Chair.

Maltose Transporter Cycle.

Amy Davidson, Purdue University.

The Twists and Turns of ABC
Mechanochemistry.

John Hunt, Columbia University.

ABC Transporters and Sensing
of Ionic Strength.

Bert Poolman, University
of Groningen.

Structural Dynamics of the ABC
Transporter MsbA.

Hassane Mchaourab, Vanderbilt
University.

Symposium 21: Nucleic Acid-based Motors.

Antoine van Oijen, Harvard
University, Chair.

Single-Molecule Studies of
Transcriptional Termination.

Steven M. Block, Stanford University.

Exploring Chromatin Remodeling
with Three-dimensional
Electron Microscopy.

Andres Leschziner, Harvard
University.

Nucleic Acid-based Motors.
Keir Neuman, Ecole Normale
Supérieure, France.

Under the Hood of the Replisome:
A Single-Molecule View of
DNA Replication.
Antoine van Oijen, Harvard
University.

Workshops

*Workshops will be held Sunday
evening, 7:30 – 9:30 PM*

Sunday, February 3

7:30 PM – 9:30 PM

Workshop 1: Modeling the Membrane.

Peter Tieleman, University of
Calgary, Chair.

Thermodynamics of Lipid
Bilayer Perturbations.

Peter Tieleman, University
of Calgary.

Concerted Simulation and
Experimental Studies of Membrane
Structure and Dynamics.

Doug Tobias, University of
California, Irvine.

Synthetic Peptides as Models for
Membrane Proteins.

Antoinette Killian, University
Utrecht, The Netherlands.

Dynamics and Lateral Pressure
Profiles of Lipid Rafts.

Ilpo Vattulainen, Helsinki University
of Technology, Finland.

Workshop 2: Single Molecule Biophysics.

Lori Goldner, NIST, Chair.
Single Molecule Beyond the
Membrane(s).

Giovanni Cappello, Institute
Curie, France.

Microtubule Polymerization Forces.
Marileen Dogterom, FOM Institute
for Atomic and Molecular Physics,
The Netherlands.

Single-Molecule Studies of the
Eukaryotic RNA Polymerase II.

Jens Michaelis, Ludwigs Maximilians
University, Germany.

Biomolecular Confinement,
Mixing, and Interactions
in Hydrosomes.

Lori Goldner, NIST.

Workshop 3: Structural Genomics: A Discussion.

Andrzej Joachimiak, Argonne
National Science Laboratory, Chair.

Structure Genomics: An Integral
Partner with Functional and
Chemical Genomics for Biology
and Medicine.

Cheryl Arrowsmith, University of
Toronto, Canada.

Structural Genomics —Genome
Inspired and Enabled
Structural Biology.

Andrzej Joachimiak, Argonne
National Science Laboratory.

A Knowledgebase for Structural
Genomics.

Helen Berman, Rutgers University.

Unique Insights into Membrane
Protein Biophysics through
Structural Genomics.

Timothy Cross, Florida

State University.

Structural Genomics, from Proteins
to Complexes.

Herman van Tilbeurgh, University of
Paris, France.

Minisymposia

*Minisymposia will be held Sunday –
Wednesday, running concurrently with
platform sessions.*

Structure-Function of Oxidative Pathway Proteins.

Robert Nakamoto, University of
Virginia, and *William Cramer*,
Purdue University, Co-Chairs.

Inactivation and Desensitization Mechanisms in Ion Channels.

Mark Meyer, NICHD NIH, and
Emily Liman, University of Southern
California, Co-Chairs.

The Physics of Protein Folding/Unfolding.

Julio Fernandez, Columbia
University, and *Jose Onuchic*,
University of California,
San Diego, Co-Chairs.

Structural Refinement and Modeling Guided by Low-Resolution Experimental Data.

Jianpeng Ma, Baylor College of
Medicine, and *Ruben Abagyan*,
The Scripps Research Institute,
Co-Chairs.

Subgroups

*All subgroup meetings will be held on
Saturday, February 2.*

Bioenergetics

9:00 AM-5:00 PM

7:00 PM Subgroup Dinner

Biological Fluorescence

1:00 PM-5:10 PM

Exocytosis & Endocytosis

1:00 PM-5:30 PM

7:00 PM Subgroup Dinner

Intrinsically Disordered Proteins

1:00 PM-5:45 PM

7:30 PM Subgroup Dinner

Membrane Biophysics

1:00 PM- 5:00 PM

6:00 PM Subgroup Dinner

Membrane Structure & Assembly

Time to be announced.

Molecular Biophysics

9:00 AM-12:30 PM

Motility

12:00 PM-4:55 PM

5:00 PM Subgroup Dinner

8:00 PM Evening Talk

Permeation & Transport

11:00 PM-12:00 PM

Satellite Meetings

Store-operated Calcium Channels: Mechanism and Function.

Friday, February 1, 12:00PM - 5:00PM

Sponsored by the Journal of Physiology

The principal route for calcium influx in a variety of mammalian cells is through store-operated calcium channels in the plasma membrane. These channels are activated by the process of emptying intracellular calcium stores, but for many years the molecular basis of store-operated entry remained enigmatic. All this has changed dramatically over the last 18 months, with the identification of a gene encoding this elusive channel as well as the calcium sensor within the stores. Function of store-operated channels is also being dissected, with unexpected consequences. Store-operated influx regulates short-term physiological responses like secretion as well as induces long lasting changes in gene expression. Aberrant store-operated influx has been linked to a growing list of human diseases including acute pancreatitis, inflammation, certain primary immunodeficiencies, prostate cancer and Alzheimer's disease. Recent work has resolved several outstanding questions in cell physiology, but new concepts and questions have arisen that this satellite meeting will address.

Preliminary Program:

Activation of Store-operated Channels by Calcium Influx Factor.

Victoria Bolotina, Boston University.

Molecular Choreography of Store-operated Calcium Entry: Endoplasmic Reticulum-Plasma Membrane Dynamics.

Richard Lewis, Stanford University.

Function of Store-operated CRAC Channels in Health and Disease.

Anant Parekh, Oxford University, United Kingdom.

Molecular Composition of CRAC Channels.

Reinhold Penner, University of Hawaii.

Cytoplasmic Calcium Oscillations and Store-operated Calcium Influx.

James Putney, NIEHS, NIH.

Drug Discovery for Ion Channels VIII.

Friday, February 1, 8:30AM - 5:15PM

Sponsored by Molecular Devices, Sophion Bioscience, and Cellectricon

Ion channels are an important class of therapeutic drug targets, and mutations in ion channel genes are found to be responsible for an increasing number of diseases. While conventional electrophysiological techniques permit the most detailed and direct study of ion channel function, they are limited due to the manual nature of the method and their low throughput. Because of this, ion channels remain an underrepresented target class for drug discovery. The advent of higher throughput automated electrophysiology systems has begun to change the face of ion channel drug discovery. Since the inaugural "Drug Discovery for Ion Channels" satellite meeting, there have been many advances in ion channel drug discovery including new instrumentation and techniques. This year the Satellite Meeting will review the advances in automated electrophysiology and other emerging technologies and the impact they've had on ion channel drug discovery today. This year's meeting will highlight presentations from users of automated electrophysiology instrumentation as well as other speakers in the field of ion channel drug discovery.

Keynote Lecture.

Bertil Hille, University of Washington School of Medicine.

Additional program information to be announced.

Satellite Meeting Registration Form

Store-operated Calcium Channels: Mechanism and Function

Sponsored by The Journal of Physiology

Friday, February 1, 2008 , 12:00 PM —5:00 PM
Long Beach Convention Center, Room 104B

REGISTRATION DEADLINE: January 4, 2008
Registration is limited and accepted on a first-come, first-serve basis.

Name (First): _____ (Last): _____

Address: _____

City: _____ State: _____

Zip/Mail Code: _____ Country: _____

Telephone: _____ Fax: _____

(Required Field) – E-mail: _____

I require special accommodations to fully participate in the meeting.

Describe briefly: _____

Registration: (\$35.00)

Please charge my credit card: Visa MasterCard American Express Discover

Credit Card #: _____

Expiration Date: ____/____/____ 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: 301-634-7133

(DO NOT fax form and then mail it.)

Satellite Meeting Registration Form

Drug Discovery for Ion Channels VIII

Sponsored by Molecular Devices (now MDS Analytical Technologies), Sophion Bioscience and Cellectricon

Friday, February 1, 2008 , 8:30 AM —5:15 PM
Long Beach Convention Center, Room 104A

REGISTRATION DEADLINE: January 4, 2008
Registration is limited and accepted on a first-come, first-serve basis.

Name (First): _____ (Last): _____

Address: _____

City: _____ State: _____

Zip/Mail Code: _____ Country: _____

Telephone: _____ Fax: _____

(Required Field) – E-mail: _____

I require special accommodations to fully participate in the meeting.

Describe briefly: _____

Registration: (\$35.00)

Please charge my credit card: Visa MasterCard American Express Discover

Credit Card #: _____

Expiration Date: ____/____/____ 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: 301-634-7133
(DO NOT fax form and then mail it.)

Subgroups

Bioenergetics

The Bioenergetics Subgroup 2008 Symposia will be held on Saturday, February 2. The morning symposium will focus on molecular bioenergetics and is entitled *Mechanism of Ion Pumps by Time-resolved Measurements*, while the afternoon symposium, entitled *Mitochondrial Bioenergetics in Disease and Therapeutics*, will highlight the pivot role of mitochondria in health and disease. World renowned speakers will present their latest work in diverse areas ranging from structure function relationships in bioenergetic proteins using x-ray crystallography and single molecule biophysics to the role of mitochondria in disease, including intracellular signaling between mitochondria and other parts of the cell. Another highlight of the day will be presentation of the Young Bioenergeticist Award at 1:30 PM. Please consult your program for salient information about the speakers and co-chairs of each symposium. Society members outside of the Bioenergetics Subgroup are strongly encouraged to attend our annual symposia.

A recent article in the Biophysical Society newsletter contained an obituary for *Elizabeth L. Gross*, Professor of Biochemistry and Past Director of the Biophysics Program at Ohio State University, a 35-year member of our subgroup. Those who knew Liz knew her as a solid scientist with 67 publications and past NSF and NIH funding, and her strong participation in the Bioenergetics Subgroup and Biophysical Society. She held elective offices on the Executive Committee of the Subgroup and on the Biophysical Society Council. In addition, she chaired numerous Biophysical Society annual meeting platform sessions on photosynthesis over the years. Liz's research interests were regulation and distribution of light energy between the photosys-

tems in photosynthesis and more recently focused on structure function relationships in photosynthetic electron transfer proteins using crystal structures, computer simulations and molecular graphics. Liz was a well trained biophysicist having received her PhD at University of California, Berkeley, with *Lester Packer* and performed a postdoctoral fellowship with *Anthony San Pietro* at the Kettering Research Laboratory. In addition, Liz was a regular attendee at the Biophysical Society Annual Meeting and the Bioenergetics subgroup dinner. Her gentle spirit and contributions to the field will be missed by our subgroup.

—*Lawrence Prochaska*, Chair

Biological Fluorescence

On Saturday, February 2, 2008 the Biophysical Fluorescence Subgroup will hold the following program at the Annual Meeting:

Applications of Fluorescence in the Study of Dynamics
Chairs: *Ari Gafni*, University Michigan and *Suzanne Scarlata*, SUNY Stony Brook

1:00 PM
Total Internal Reflection with Fluorescence Correlation Spectroscopy
Nancy Thompson, University of North Carolina, Chapel Hill

1:30 PM
Parkinson's Disease: Monitoring Aggregation of Alpha-Synuclein by Fluorescence
Thomas Jovin, Max Planck Institute, Gottingen

2:00 PM
A Single Molecule Study of Amyloid Beta Toxicity in Alzheimer's disease
Duncan Steel, University of Michigan, Ann Arbor

2:30 PM Break

3:00 PM
Subgroup Business Meeting

3:30 PM
Using Fluorescence Methods to Monitor G Protein Dynamics in Cells
Suzanne Scarlata, SUNY Stony Brook

4:00 PM
Origins and History of Fluorescence Anisotropy
David Jameson, University of Hawaii

4:30 PM
Young Fluorescence Investigator Award.

5:00 PM
Gregorio Weber Award for Excellence in Fluorescence Theory and Application.
To be announced at the meeting.

5:10 PM
Gregorio Weber Award Lecture.
To be given by the Weber Award recipient.

Solicitation for the 12th Annual Young Fluorescence Investigator Award

Nominations are now being accepted for the Young Fluorescence Investigator Award sponsored by the Biological Fluorescence Subgroup of the Biophysical Society and Horiba Jobin Yvon, Inc.

Selection for this award is based on novel applications of fluorescence spectroscopy to current work in biology and biophysics by a pre-tenure faculty member. The awardee receives a cash prize of \$1000 and will present a lecture on her/his research at the Annual Biophysical Society Meeting to be held on February 2 - 6, 2008, Long Beach, California. Nominations should be addressed to:

Dr. David M. Jameson
Dept. Cell and Molecular Biology
University of Hawaii
651 Ilalo St.
BSB 222
Honolulu, Hawaii 96813
USA

Jameson may also be contacted by email at djameson@hawaii.edu or one at 808-956-8332.

Send a letter of nomination explaining how the candidate's work represents novel and exciting applications of fluorescence to biology and biophysics. Include the candidate's CV, a reprint or preprint that exemplifies the candidate's exemplary contribution and three letters of support. Nominations will be accepted through Friday, December 14, 2007. Application materials may be sent electronically (via email and pdf files) to djameson@hawaii.edu.

—*Ari Gafni*, Chair

Exocytosis/Endocytosis

The Exocytosis and Endocytosis subgroup looks forward to its 6th Annual Subgroup Meeting in Long Beach. The meeting is co-chaired by *Ruth Heidelberger* of the University of Texas and *Guillermo Alvarez de Toledo*, University of Seville. Other members of the council and of the organizing committee of this year's symposium are *Ege Kavalali*, UT Southwestern, and *Bob Chow*, University of Southern California. The committee is very proud to announce an exciting and complete program for the Symposium. *Yuki Goda*, of the University College, London, will talk about sharing and organization of synaptic vesicle pools at hippocampal synapses, where she will present the most up to date results from her lab. *Edward Stuenkel*, University of Michigan, will present the talk Defining regulatory interactions during exocytosis by FRET. *Sandra Schmid*, The Scripps Research Institute, will talk about Mechanichemical activity of dynamin in vesicle formation. *Joshua Zimmerberg*, NIH, will present his recent work on membrane protein mobility within cell surface domains and membrane budding.

The subgroup symposium will continue, after a coffee break, with the presentation of the fifth annual Sir Bernard Katz Award for Excellence in Research in Exocytosis

and Endocytosis and the subsequent Award lectures. This year's recipients are *Reinhard Jahn*, of the Max Planck Institute for Biophysical Chemistry, Goettingen, and *Thomas C. Südhof*, of the UT Southwestern Medical Center, Dallas. The subgroup committee decided to give a shared award this year to two scientists who have made outstanding contributions in the last decade on the proteins that participate in different key steps in Exocytosis and Endocytosis. Although certainly the awardees individually merit consideration for this Award, the Committee considered that the joint contributions made by Reinhard Jahn and Thomas Südhof have laid the groundwork at the molecular level for biophysics to understand the next level of functional complexity. The award lectures promise exciting and encouraging discussions on membrane fusion and its calcium dependency. Reinhard Jahn's talk is entitled *Exocytosis of synaptic vesicles: Are SNAREs up to the task?* Thomas Südhof will talk on *How Calcium Triggers Synaptic Vesicle Exocytosis*.

The subgroup meeting is followed by a Gala dinner, the location of which is to be announced. Those who wish to attend the dinner and have not prepaid with subgroup registration may order tickets by e-mail from the current Chair-Elect and Treasurer *Ruth Heidelberger* (ruth.heidelberger@uth.tmc.edu).

The committee gratefully acknowledges the support from its sponsors:

Olympus
NPI Electronics
HEKA Elektronik
IonScope
Rapp OptoElektronik
Wavemetrics Inc.,
Sutter Instruments
Till Photonics
ALA Scientific Instruments
Nanonics

—*Guillermo Alvarez de Toledo*, Chair

Intrinsically Disordered Proteins (IDP)

Second Annual Subgroup Business Meeting and Symposium

The IDP subgroup meeting at the 2008 Annual Meeting will commence on Saturday, February 2 at 10:00 AM and will be chaired by the current subgroup chair, Keith Dunker. The first item on the agenda will be the subgroup business meeting from 10:00AM to 12:00 noon, where the future of the subgroup will be discussed and the election of new subgroup officers will take place. Open positions include chair-elect (one-year term as chair-elect, followed by one-year term as chair and a further year as immediate past chair), program co-chairs: two open positions (one-year term), and council: one open position (three-year term). Nominations, including self-nominations, should be submitted to the subgroup secretary-treasurer, *Trevor Creamer*, at Trevor.Creamer@uky.edu and should include a brief description of the interests, qualifications, and goals of the nominee. We hope all nominees will attend the Long Beach meeting, if possible, to stand for election in person. Nominations from the floor will also be accepted. All members are encouraged to attend the subgroup business meeting to lend their voices, opinions and votes to the discussion and election.

Subsequent to the business meeting there will be a break for lunch, followed by the subgroup symposium, which will begin at 1:00 PM. The theme of this year's symposium is *Intrinsic Disorder and Human Disease*, and the talks will cover topics ranging from computational and experimental methods for predicting and characterizing disordered proteins to the role of such proteins in human diseases such as cancer and neurodegenerative disorders. Two plenary lectures will be given, one by Alan Fersht on order and disorder in the tumor suppressor protein p53

and one by Michele Vendruscolo on predicting the aggregation propensity of disordered proteins. The symposium is scheduled to end at 6:10 PM and will be followed by a subgroup dinner at a nearby restaurant (yet to be determined), to which all members are enthusiastically invited. The cost will be \$40, including dinner and tip, but not drinks, and a call for reservations will be issued as the meeting approaches. The dinner can also be prepaid when renewing your Biophysical Society membership for 2008. The complete meeting program can be found at <http://www.biophysics.org/subgroups/idp.htm>.

—*David Eliezer* and *Rohit Pappu*,
Symposium Co-Chairs.

Recent Papers of Interest

Y. Zhang, et al. Between Order and Disorder in Protein Structures: Analysis of "Dual Personality" Fragments in Proteins, Structure 15(9) 1141-1147 (2007). [Also see associated commentary by *A.K. Dunker, Another Window into Disordered Protein Function, Structure 15(9) 1026-1028 (2007).*] *A. Vitalis, X. Wang, and R.V. Pappu, Quantitative Characterization of Intrinsic Disorder in Polyglutamine: Insights from analysis based on polymer theories, Biophys. J. 93(6) 1923-1937 (2007).*

J.M. Baker, et. al CFTR regulatory region interacts with NBD1 predominantly via multiple transient helices, Nat. Struct. Mol. Biol. 14(8) 738-745 (2007).

Upcoming Meetings of Interest

Inserm Workshop. May 19-20, 2008

Phase I of an Inserm workshop titled *Intrinsically disordered proteins and associated pathologies: prediction, characterization and function* will be held in France, on May 19 and 20, 2008. Phase II will be held June 2008 in Lyon. See page 24 for contact information.

22nd Annual Meeting of The Protein Society, San Diego, CA. July 19-23, 2008

The theme of this meeting will be Proteins: Machines of Life. The initial announcement indicates that there will be a session on intrinsically disordered proteins. See page 14 for contact information.

Join the IDP Subgroup

Have an intrinsically disordered protein or are interested in them? Join the IDP Subgroup. Download the application form from <http://www.biophysics.org/subgroups/idp.htm>.

—*Trevor Creamer*,
Secretary/Treasurer

Membrane Biophysics

The 2008 Membrane Biophysics Symposium will be held on Saturday, February 2, in the afternoon at the Annual Meeting in Long Beach, California. The theme of the symposium is Channel Gating Modifiers and Modulators. Speakers include *Eitan Reuveny* (Chair); *John P. Adelman*; *Diomedes E. Logothetis*; *Jeffrey R. Martens*, *Daniel L. Minor*, and *Ardem Patapoutian*.

The subgroup will have a brief business meeting to elect the Chair-Elect. This individual will serve as Chair-Elect at the 2009 Annual Meeting and will be the Subgroup Chair for the 2010 Annual Meeting. The Chair is responsible for selecting the theme and inviting speakers for the symposium at the annual meeting. There are additional minor responsibilities at the Society level for both the Chair-Elect and Chair. The individual elected should plan to attend the Annual Meetings during their year as Chair-Elect and as Chair. For additional information on the responsibilities of the Chair, please see our section on the Society website.

The 2008 Cole Award Dinner will be held on Saturday evening, February 2, 2008, following the subgroup symposium (location to be

announced). The Kenneth S. Cole Award is presented annually to an investigator who has made a substantial contribution to our knowledge of membranes.

If you want to attend the dinner, but did not pre-pay with your dues, you can reserve a ticket by contacting *Carol Beck* (carol.beck@jefferson.edu). To encourage student participation, the subgroup is once again offering a free ticket to the Cole Award dinner for any student member of the Biophysical Society who enters the student poster competition. Additional free tickets will be available on a lottery basis to student members who do not enter the poster competition. The deadline for students to request tickets is January 2, 2008.

—*Eitan Reuveny*, Chair

—*Carol L. Beck*, Secretary-Treasurer

Motility

The 2008 Motility Subgroup Meeting will be co-chaired by *Piotr Fajer*, Florida State University, and *Roger Craig*, University of Massachusetts Medical School. The meeting will start at noon on Saturday February 2. A schedule of the meeting is listed on page <http://www.biophysics.org/meetings/2008/program.htm>. We especially look forward to this year's evening lecture—*A Random Walk through the Field of Motor Proteins*, to be given by *Roger Cooke*, UCSF.

Please visit the Motility subgroup's website at <http://www.biophysics.org/subgroups/motility.htm>, which provides information on previous subgroup meetings, the schedule for this year's meeting, and the subgroup bylaws. All interested Society members are welcome to attend the Subgroup meeting. If you are not already a Subgroup member, we encourage you to join by filling out the membership form on the website.

—*Roger Craig* and *Piotr Fajer*,
Co-Chairs.

Public Affairs

Fiscal Year Begins with no Budget for Federal Agencies

Once again, Congress had to pass a short-term funding extension to keep government programs, including the National Institutes of Health (NIH) and the National Science Foundation, operating after the start of the new fiscal year on October 1.

Known as a continuing resolution (CR), the measure funded federal programs at the Fiscal Year (FY) 2007 levels through November 16. It was necessary because Congress had not completed any of the FY 2008 appropriations bill by the start of the FY 2008 fiscal year.

With November 16 approaching, Congress had sent only the FY 2008 Labor-HHS-Education appropriations bill and the FY 2008 Department of Defense Appropriations Bill to the President for his signature. The President has publicly announced he would veto the Labor-HHS bill because it is approximately \$10 billion over his FY 2008 budget request. The President has threatened to veto any bills that exceed the spending levels he proposed in his FY 2008 budget.

The Labor-HHS bill Congress sent to the President included \$30 billion for NIH in FY 2008. This is an increase of \$1.1 billion (3.8 percent) over the FY 2007 level. The conferees added an additional \$100 million beyond what the Senate had proposed. The Senate bill had proposed \$29.9 billion, while the House bill proposed \$29.65 billion.

The \$30 billion includes \$300 million that will be transferred out of NIH for Global HIV/AIDS. After the transfer, NIH would have a budget of \$29.7 billion, which is a net increase of \$899 million (3.1%) over the 2007 budget.

The Biophysical Society had signed letters to the House and Senate leaders urging them to adopt the Senate recommendation. The Biophysical Society has also signed onto a letter to the President asking him to sign the bill.

While both the House and Senate have passed bills funding the National Science Foundation (NSF), the two chambers had not yet conference the bills to work out an agreement. Congressional leaders are waiting to see what happens to the Labor-HHS Bill before moving ahead with other appropriations bills. The House bill would provide \$54.4 billion in discretionary spending to the NSF, \$3.2 billion more than requested. The Senate version provides \$868 million more than the House. In both bills, the National Science Foundation would receive approximately \$6.5 billion, a 10% increase for the agency over its FY 2007 budget.

In order to keep the government running passed November 16, Congress passed another continuing resolution funding the government through December 14.

Roundup

House of Representatives: Rep. Paul Broun (R-GA) joined the House Science and Technology Committee in September. Rep. Broun will be taking the seat of Rep. Jo Bonner (R-AL) on the Technology and Innovation Subcommittee, while Rep. Dave Reichert (R-WA), who joined the Committee in March, will be taking the seat of Rep. Frank Lucas (R-OK) on the Research and Science Education Subcommittee. Additionally, both Reps. Reichert and Broun will be joining the Investigations and Oversight Subcommittee.

Department of Energy: The Department of Energy released an update on its 20-year facilities plan on October 9. First released in 2003, the update lists 28 facilities by priority: near-term priorities, mid-term priorities, and far-term months. Undersecretary Raymond Orbach explained at a Basic Energy Sciences Committee Advisory meeting that much has happened in the last four years, resulting in some facilities being dropped while others have been shifted. The original plan is not exactly on track, he said, but neither is it off-track. "Abstract of the Interim Report on Facilities for the Future: A Twenty-Year Outlook, can be found at <http://www.science.doe.gov/>

[Scientific_User_Facilities/History/20-Year-Outlook Interim%20Report \(August\).pdf](http://www.science.doe.gov/Scientific_User_Facilities/History/20-Year-Outlook%20Interim%20Report%20(August).pdf)

NIH, NASA: The National Institutes of Health (NIH) and NASA have entered into an agreement that will facilitate NIH researchers to utilize the International Space Station for research. As part of the agreement, NIH and NASA will encourage space-related health research by exchanging information and providing technical expertise in areas of common interest. The agencies will facilitate and share each other's research and development efforts.

NIGMS, NASA: Sally Lee was appointed executive officer of the NIGMS in September. In her new position, Lee will be in charge of the institute's administrative functions, including financial management, information technology, and management analysis. She will also advise Director Jeremy Berg and other senior officials on administrative management issues and their implications for NIGMS scientific programs. Lee joined NIGMS as an administrative technician in 1988 and became a management analyst in 1991. In 2000, Lee rose to the rank of NIGMS deputy executive officer. She has been the institute's acting associate director for administration and operations since September 2006.

National Postdoctoral Association: The National Postdoctoral Association has issued a White Paper on immigration reform, calling on U.S. policy makers and agency leaders to consider changes to laws and regulations governing international postdocs. The NPA White Paper, entitled International Postdoctoral Researchers and Their Importance to the Advancement of U.S. Science, Technology and National Security was sent to leading officials in the U.S. Departments of State and Homeland Security, along with the leaders of the U.S. House and Senate committees that have jurisdiction over immigration policies. The white paper can be found at: <http://www.nationalpostdoc.org/atf/cf/%7B89152E81-F2CB-430C-B15149D071AEB33E%7D/IPC%20WHITE%20PAPER%20letterhead.pdf>

Society Donors

The Society gratefully acknowledges the 2007 members who made donations to the Society programs. The names of all the donors are listed below. Donations allow for growth each year in Student and International Travel Grants, Public Affairs, Awards and other outreach activities that could not otherwise be undertaken.

\$400-\$1000

Bárány, Michael & Kate

\$100-\$399

Aebi, Ueli
Brown, Henry G.
Bullitt, Esther
Chien, Shu
Davies, David R.
Donaldson, Sue K.
Frauenfelder, Hans
Gribkoff, Valentin K.
Jou, Mei-Jie
Ludescher, Richard D.
Olson, John S.
Piston, David W.
Reedy, Michael K.
Stauffacher, Cynthia V.
Yount, Ralph G.

\$50-\$99

Barkley, Mary Dicky
Burton, Alice
Cate, Jamie H.
Colecraft, Henry M.
Cooke, Ian M.
Correa, Ana Maria
Crothers, Donald M.
Curtis, Adam S.G.
Dan, Nily R.
Dilger, James P.
Dyson, Jane
Elliott, Gerald F.
Fraternali, Franca
Fulbright, Robert M.
Gershenson, Anne
Greeff, Nikolaus G.
Hitchcock-DeGregori, Sarah E.
Jakes, Karen S.
Kemple, Marvin D.
Kinnunen, Paavo K.J.
Kirschner, Leonard B.
Licht, Stuart S.
MacKerell, Alexander D.
McCullough, John R.
Mindell, Joseph A.
Nowak, Linda M.
Rayner, Martin D.
Reporter, Minocher
Sondermann, Holger
Sprang, Stephen
Taylor, Kenneth A.
Toca-Herrera, Jose L.
Tosteson, Magdalena T.
White, Stephen H.
Woodbury, J. Walter
Zacharias, Martin
Zhukovskiy, Mikhail A.

Under \$50

Aartsma, Thijs J.
Ackers, Gary K.
Acuna-Campa, Heriberto
Adachi-Akahane, Satomi
Adelstein, Robert S.
Aleksandrov, Andrei A.
Allen, Paul D.
Allen, Taylor
Allison, William S.

Altschuld, Ruth A.
Alvarez, Osvaldo
Amuzescu, Bogdan P.
Anderson, Page A.W.
Ansevin, Allen T.
Arguello, Jose M.
Arnold, Don B.
Arrondo, Jose-Luis R.
Ashmore, Jonathan F.
Auer, Manfred
Ausio, Juan
Baazov, David I.
Baginski, Maciej
Bahar, Ivet
Bailor, Maximillian H.
Bajzer, Zeljko
Baker, Mark
Banaszak, Leonard J.
Barron, Annelise E. E.
Barsotti, Robert J.
Bash, Ralph C.
Bassingthwaighte, James B.
Bastos, Margarida
Batalia, Michael
Batista, Victor S.
Bauer, Paul Joerg
Bayer, Manfred E.
Beaumont, Jacques
Behrends, Jan C.
Beltram, Fabio
Bentz, Joseph
Berlin, Joshua R.
Berman, Helen M.
Berry, Edward A.
Bezrukov, Sergey M.
Bick, Roger J.
Bigelow, Diana J.
Biggin, Philip C.
Blank, Paul S.
Block, Steven M.
Blumenschein, Tharin M.
Bolen, David Wayne
Bondarenko, Vladimir E.
Borucki, Berthold
Botelho, Ana Vitoria
Brand, Ludwig
Brandenburg, Klaus
Branton, Daniel
Brass, Dovrat
Brasseur, Robert
Braun, Andrew P.
Brenner, Bernhard
Brewood, Greg P.
Briehl Robin, W.
Bronner, Felix
Brown, Michael F.
Brown, Truman R.
Bustamante, Carlos
Cafiso, David S.
Cala, Steven E.
Campbell, Bruce
Carlsson, Anders E.
Catanese, Daniel J.
Cavieres, Jose D.
Celedon, Alfredo
Ceulemans, Arnout J.
Chalton, David
Chan, Sunney I.
Chantler, Peter D.
Chellgren, Veronique M.
Chen, Xiongwen

Chernomordik, Leonid V.
Chin, Jean
Chiti, Fabrizio
Choudhary, Gaurav
Chun, Paul W.
Clapp, Lucie
Clarke, Catherine E.
Clegg, James S.
Clement-Chomienne, Odile
Cohen, Carolyn
Cole, James L.
Colecraft, Henry M.
Copello, Julio A.
Cornelius, Flemming
Coutinho, Ana Isabel Abrantes
Cremo, Christine
Cross, Timothy A.
Crowe, John H.
Csordas, Gyorgy
Cupane, Antonio
Dale, Robert E.
Dalziel, Julie E.
Davidoff, Amy J.
Davis-Harrison, Rebecca L.
Dawson, David C.
de Groot, Bert L.
de la Maza, Alfons
De Weer, Paul J.
Deamer, David W.
Dedkova, Elena N.
Deikus, Gintaras
Del Principe, Franco
DeLauder, Sandra
Delgado, Carmen
Delmar, Mario
Delpon, Eva
DeRosier, David J.
Diecke, Friedrich P.
DiFranco, Marino G.
Dissing, Steen
Dreizen, Paul
Dreyer, Ingo
Dukes, Iain D.
Duong-Ly, Krisna C.
Eaton, William A.
Ebner, Reinhard
Eck, Michael J.
Edwards, Brian F.P.
Egelman, Edward H.
Eichhorn, Gunther L.
Eilers, Markus
Elbaum, Michael
Elson, Elliot L.
Elston, Timothy C.
Engel, Jutta
Engelman, Donald M.
Epstein, Neal D.
Escalada, Artur
Faneli, Francesca
Ferguson-Miller, Shelagh
Ferrer-Montiel, Antonio V.
Ficker, Eckhard
Finke, John M.
Fleischman, Darrell E.
Florin, Ernst-Ludwig
Ford, George D.
Forman, Stuart A.
Forman-Kay, Julie
Foster, Margaret C.
Fraiman, Daniel
Francini, Fabio

Franzini-Armstrong, Clara F.
French, Robert John
French, Todd E.
Fried, Michael G.
Froehlich, Jeffrey P.
Fuchs, Franklin
Fuchs, Paul A.
Furuike, Shou
Garcia de la Torre, Jose
Garcia, Maria C.
Gaspers, Lawrence D.
Geeves, Michael A.
Georghiou, Solon
Giangiacomo, Kathleen M.
Giles, Wayne R.
Gillespie, Peter G.
Gilmanshin, Rudolf
Ginsburg, Ann
Gintant, Gary A.
Golan, David E.
Goldstein, David A.
Gofni, Urcelay Felix M.
Gonzalez-Damian, Javier
Gonzalez-Ros, Jose M.
Goodman, Miriam B.
Grabe, Michael
Green, Michael E.
Greenfield, Norma J.
Gropper, Arthur L.
Gross, Elizabeth L.
Gruenwald, David
Guilford, William H.
Gulotta, Miriam
Haas, Jurgen
Haim, Todd E.
Hall, Carol K.
Hanlon, M. Sue
Hantgan, Roy R.
He, Rong-Qiao
Helliwell, Ray M.
Hellmann, Nadja
Henzler-Wildman, Katherine A.
Hianik, Tibor
Highsmith, Stefan
Hill, Bruce C.
Hinderliter, Anne
Ho, Chien
Hoerber, Heinrich
Hogle, James M.
Holtzer, Alfred
Holtzer, Marilyn E.
Holzwarth, George M.
Horkay, Ferenc
Horkayne-Szaicaly, Iren
Hove-Madsen, Leif
Hoyles, Matthew
Hoynowski, Steve M.
Huang, Yao-Te
Huertas, Marco Antonio
Iglc, Ales
Irving, Thomas C.
Ishikawa, Takashi
Itoh, Hiroyasu
Izu, Leighton T.
Jacobs, Donald J.
Jacobson, Ken
Jahn, Reinhard
Jakobsson, Eric
Janmey, Paul
Jarzynski, Christopher
Jentsch, Thomas J.

Jezek, Petr
 Jiang, Fan
 Jiang, Meei Jyh
 Jimenez, Ralph
 Johnston, Linda J.
 Jones, Keith A.
 Jorgensen, Kent
 Judge, Susan I V
 Juszcak, Laura J.
 Kalinec, Federico
 Kalodimos, Charalampos
 Kamo, Naoki
 Kan, Lou-Sing
 Karatzaferi, Christina
 Karpinski, Edward
 Kashyap, Manoj K.
 Kellermayer, Miklós S.Z.
 Kennedy, Brian
 Kenney, Linda J.
 Kereiakes, James G.
 Kernen, Peter
 Killian, Antoinette
 Kimura, Junko
 Kinoshita, Kazuhiko
 Kitazawa, Toshio
 Kleinhans, Frederick W.
 Knight, Peter J.
 Kobayashi, Toshihide
 Koenig, Bernd W.
 Korepanova, Alla
 Kotlikoff, Michael I.
 Kraft, Theresia
 Krasner, Joseph
 Kubitscheck, Ulrich
 Kuntz, Irwin D.
 Kushmerick, Martin J.
 Kyle, John W.
 Laakkonen, Liisa
 Lad, Latesh
 Lai, Luhua
 Lai, Yushuan
 Lakaemper, Stefan
 Langowski, Joerg
 Langton, Philip David
 Larsson, Peter H.
 Lattanzio, Frank A.
 Lauffer, Max A.
 LeBlanc, Normand
 Lechleiter, James D.
 Lecomte, Juliette T.
 Lee, Jong-Kook
 Leuba, Sanford H.
 Leuchtag, H. Richard
 Levin, Gal
 Lewis, James P.
 Leyva, Jose A.
 Linsdell, Paul
 Lipicky, Raymond J.
 Lipkind, Gregory M.
 Lipkowski, Jacek
 Long, Mian
 Longo, Marjorie L.
 Low, Barbara W.
 Lukyanenko, Valeriy Ivanovich
 Luthey-Schulten, Zaida
 Lynch, Carl
 Lynch, Joseph W.
 MacDonald, Gina Marie
 Mackey, Michael C.
 Maeda, Yuichiro
 Magleby, Karl L.
 Majima, Toshikazu
 Makhatazde, George I.
 Mandel, Frederic
 Mansson, Alf L.
 Marcotte, Isabelle
 Marks, Andrew R.
 Marszalek, Piotr E.
 Martin, Hunter
 Mathew, Mathew K.
 Matsuura, Hiroshi
 Mattheis, James R.
 Maughan, David W.
 Mazzarella, Lelio
 McCarty, Nael A.
 McCulloch, Andrew
 McIntosh, Thomas J.
 McKnight, C. James
 McLaughlin, Stuart G.
 McManus, Owen B.
 Meleard, Philippe
 Merzlyakov, Mikhail
 Mihailescu, Mihaela
 Mikhail, Ann
 Mildvan, Albert S.
 Miller, Keith W.
 Monti, John A.
 Montich, Guillermo G.
 Moraczewska, Joanna
 Morone, Nobuhiro
 Mosbacher, Johannes
 Munteanu, E. Laura
 Murphy, Richard A.
 Muto, Etsuko
 Nagle, John F.
 Naito, Akira
 Naumann, Christoph
 Neef, Andreas
 Neira, Jose L.
 Nerbonne, Jeanne M.
 Newton, Alexandra C.
 Nonner, Wolfgang
 Nordenskiöld, Lars
 Nossal, Ralph J.
 Nowak, Thomas
 Nyitrai, Miklos
 O'Brien, John
 Ochi, Rikuo
 Ohta, Yoshihiro
 Okamura, Yasushi
 Okun, Ilya
 Olivier, Nelson B.
 Orozco, Modesto
 Osbakken, Mary D.
 Otto, Michael R.
 Palmer, Amy E.
 Palmer, Arthur G.
 Palmer, Cynthia A.
 Pantoja, Rigoberto
 Pardo, Leonardo
 Parkinson, William Charles
 Parness, Jerome
 Patel, Smita S.
 Pavlin, Mojca
 Peditakis, Peter
 Peixoto, Pablo Marco Veras
 Pellequer, Jean Luc
 Pencer, Jeremy S.
 Perez, Claudio F.
 Periasamy, Ammasi
 Perkins, Walter R.
 Petrache, Horia I.
 Petrou, Steven
 Philipson, Kenneth D.
 Pilarczyk, Goetz C.
 Pla, Salvador Sala
 Plested, Andrew J.
 Pollard, Thomas D.
 Ponce-Dawson, Silvina M.
 Powers, Evan T.
 Prendergast, Franklyn G.
 Prevarskaya, Natacha
 Prieto, Manuel Jose Estevez
 Prigodich, Richard V.
 Prochniewicz, Ewa
 Prouty, Muriel S.
 Pusey, Marc L.
 Radermacher, Michael
 Ramay, Hena R.
 Rana, Mitra S.
 Randall, Cynthia S.
 Raphael, Robert M.
 Raychaudhuri, Subhadip
 Reeves, John P.
 Reggiani, Carlo
 Rennie, Katherine J.
 Rettig, Jens
 Reuveny, Eitan
 Richards, Frederic M.
 Richardson, Jane S.
 Rill, Randolph L.
 Rinetti, Gina
 Ripoché, Pierre
 Robillard, George T.
 Roche, Camille J.
 Rodriguez, Hector M.
 Roos, Kenneth P.
 Root, Douglas D.
 Rowat, Amy C.
 Royer, Catherine A.
 Ruben, Peter C.
 Rydqvist, Bo J.
 Sackett, Dan L.
 Sackin, Henry J.
 Sakamoto, Takeshi
 Sakowicz, Roman
 Salgado, Jesus
 Salonen, Emppu M.J.
 Sanchez-Chapula, Jose A.
 Sargent, David F.
 Saroff, Harry A.
 Sauer, Jon R.
 Sauer, Markus
 Saven, Jeffery G.
 Scarlata, Suzanne F.
 Scheenen, Wim J.J.M.
 Scheidt, W. Robert
 Schellman, John A.
 Scheuer, Todd
 Schick, Michael
 Schmidt, Thomas
 Schneider, Donald L.
 Schoeniger, Joseph S.
 Schumaker, Verne N.
 Schwartz, Joel W.
 Schwartz, Russell S.
 Scott, H. Larry
 Seeman, Nadrian C.
 Sejersted, Ole M.
 Sekatskii, Sergey K.
 Serrano, Jose R.
 Shafer, Richard H.
 Shaw, Walter A.
 Shea, Madeline A.
 Sherman, Arthur
 Shibata, Osamu
 Shriver, John W.
 Siegel, Edward
 Siegelbaum, Steven A.
 Sigworth, Frederick J.
 Slater Simon J.
 Small, Donald M.
 Smirnov, Sergey V.
 Smith, Jerry C.
 Smith, Stephen S.
 Smithey, Daniel Tod
 Sobie, Eric A.
 Sokolov, Igor Y.
 Sorota, Steve
 Spangler, Robert A.
 Spencer, C. Ian
 Srinivasan, A. R.
 Stark, Ruth E.
 Staros, James V.
 Steinmeyer, Ralf
 Stett, Alfred
 Stine, Keith J.
 Stokes, David L.
 Straub, Karl David
 Su, Zhi
 Subramaniam, Vinod
 Suda, Norio
 Suh, Chang Kook
 Sukharev, Sergei I.
 Suzuki, Kenichi
 Svab, Istvan
 Szent-Gyorgyi, Andrew G.
 Tedford, Hugo William
 Tenforde, Thomas S.
 Thomas, Annick
 Thomasson, Kathryn A.
 Thrift, Richard N.
 Tohse, Noritsugu
 Tompa, Peter
 Toombes, Gilman E. S.
 Torok, Katalin
 Treistman, Steven N.
 Trentham, David R.
 Tseng, Gea-Ny
 Tuma, Roman
 Turner, David C.
 Tworowska, Izabela
 Ueda, Masahiro
 Ulbrich, Maximilian H.
 Ulrich, Anne S.
 Umemura, Kazuo
 Vais, Horia
 Valenzuela, Carmen
 Van Bogaert, P. P.
 Van Holde, Ken E.
 van Oijen, Antoine M.
 Varani, Gabriele
 Veenstra, Richard D.
 Villalain-Bouillon, Jose
 Visser Antonie, J. W. G.
 Vogel, Martin
 Vogel, Viola
 Volker, Jens
 Vollmer, Frank
 von Hippel, Peter H.
 Vullev, Valentine I.
 Wachtveitl, Josef
 Wade, Rebecca C.
 Wagenknecht, Terence
 Walter, Anne
 Watts, Anthony
 Wehrens, Xander H.
 Wei, Aguan
 Wiegraebe, Winfried
 Winiski, Anthony P.
 Wohland, Thorsten
 Wohlrab, Hartmut
 Wollenzien, Paul L.
 Wolska, Beata M.
 Woodson, Sarah
 Wright, Ernest M.
 Wu, Fayi
 Xia, Xiaoming
 Yamazaki, Masahito
 Yanez-Orozco, Inna S.
 Ying, Liming
 Yool, Andrea J.
 Yoshimura, Kenjiro
 Yuill, Kathryn H.
 Yurke, Bernard
 Zabell, Adam P R
 Zeitz, Oliver
 Zhadin, Nickolay N.
 Zhao, Qinyi
 Zorec, Robert
 Zorzato, Francesco

Members in the News



Georges Belfort

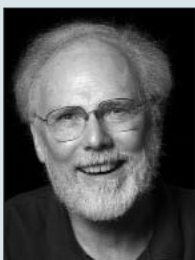
Georges Belfort

Georges Belfort, Biophysical Society member since 2004, has received the Exxon Mobil Research & Engineering Company's 2008 E.V. Murphree Award in Industrial & Engineering Chemistry.



Jack H. Freed

Jack H. Freed, Biophysical Society member since 1999, has received the 2008 E. Bright Wilson Award in Spectroscopy.



James A. McCammon

James A. McCammon, Biophysical Society member since 1979, has been awarded the 2008 ACS Award for Computers in Chemical & Pharmaceutical Research.

POSTDOCTORAL POSITION Rensselaer Polytechnic Institute

We are seeking a highly motivated and talented Postdoc for research projects in the field of muscle physiology and molecular motor structure/function. Possible projects include, but are not limited to, 1) structural and kinetic basis of slow versus fast myosin isoforms and muscle fiber types, 2) mechanism of stretch activation in heart and insect flight muscle, 3) location and nature of force-generating/elastic elements in motor proteins.

Requirements: M.D. or Ph.D. in a muscle physiology-related field such as biomedical engineering, physiology, biophysics, biochemistry, mechanical engineering or biology. Fluency in spoken and written English. Sufficient hand-eye coordination to develop required micro-dissection skills.

Please e-mail a cover letter, CV and contact information for three references to Douglas Swank, swankd@rpi.edu.

Interested in Nanoscale Biophysics?

A new subgroup is forming in this field. For a description of the subgroup and to help petition for its formation, visit:

www.biophysics.org/subgroups/nanoscale.htm

Profile (Continued from page 3.)

Nano-technology, Biology, and Medicine, and Nanomedicine. Man-aging all these activities requires a strict balancing routine, but she believes that if you're passionate about something,

you will be able to make the commitment and find the time.

Despite the hectic schedule, she loves what she is doing. "I think one of the greatest things about science and what attracted me to science from

the time I was a child is that you're always learning new things," explains Gilbert. "You are always able to have new puzzles and new ways to solve the puzzle."

**Tenure-Track Faculty Position in
Experimental Biophysics**
Department of Physics, McGill University

We are currently seeking applications for a tenure-track faculty position at the rank of Assistant Professor in the area of Experimental Biophysics, beginning as early as September 2008.

McGill University's Department of Physics offers a rich research environment that includes the availability of advanced probes and sensors, fast imaging and correlation spectroscopies, and the access to atomic manipulation and microfabrication facilities. We are looking for an individual whose vigorous research program will enhance and complement this effort, and we value strong interdisciplinary interactions within and outside our Department. The successful candidate will be a strong teacher and an outstanding researcher. Preferably by mail, and as soon as possible, interested candidates should submit a curriculum vitae, a statement of research goals and plans, a statement of teaching interests and philosophy, and arrange for at least three letters of reference to be sent directly to

Professor Charles Gale, Chair
Department of Physics
McGill University
3600 University St.
Montreal, Quebec
Canada, H3A 2T8

Review of applications will begin January 7th, 2008; applications will be accepted and reviewed until the position is filled. The successful candidate will be supported by a generous start-up package and could be nominated for a Canada Research Chair.

All qualified candidates are encouraged to apply; however Canadian citizens and permanent residents of Canada will be given priority. McGill University is committed to equity in employment.



**FACULTY POSITION AT
DREXEL UNIVERSITY**
**Department of Bioscience
and Biotechnology**

PLASMA BIOLOGY

Drexel University is searching for a biologist with experience in cell biology, especially epithelial biology or wound healing, or molecular pathogenesis. Appointment will be made at either the Assistant or Associate Professor Level. The successful candidate will be committed to develop a dedicated research program in close collaboration with an interdisciplinary research institute focusing on medical applications of electrically generated plasma. An ideal candidate will have knowledge and previous experience in the area of plasma chemistry and/or biology. Appointments at the Associate Professor level will be expected to have significant current funding in one of the described areas. Position requires a Ph.D. in an area of biology, medicine, or other plasma biology related disciplines, as well as a strong research background and a commitment to undergraduate and graduate teaching. Drexel University is an equal opportunity employer and encourages applications from women and minorities. Please send a CV, a statement of research and teaching interests, and the names of three references to: Chair of the Plasma Biology Search Committee at address below.

Department of Bioscience and Biotechnology
Drexel University
3141 Chestnut Street
Philadelphia, PA 19104

www.drexel.edu/bioscience

Drexel University is an Equal Opportunity/Affirmative Action Employer and encourages applications from qualified women, members of minority groups, disabled individuals, and veterans.

AppliedPhotophysics

The ultimate in speed and sensitivity for CD and stopped-flow spectrometers

Chirascan

Circular Dichroism Spectrometer



SX20

Stopped-Flow Spectrometer



These instruments will be on display at the Biophysical Society 52nd Annual Meeting - **BOOTH N° 214**

For more information, please contact us:
www.photophysics.com, sales@photophysics.com,
USA 1-800 543 4130, international +44 (0) 1372 386537

February 5-8, 2008

*IWOBI '08 — 2nd International Workshop
on Bioinformatics*

Santa Clara, Cuba

[http://bioinformatics.org.au/files/documents/
1st_Call_for_papers_resumen.pdf](http://bioinformatics.org.au/files/documents/1st_Call_for_papers_resumen.pdf)

February 17-22, 2008

*Gordon Research Conference on Isotopes in Biological and
Chemical Sciences*

Ventura, California

<http://www.grc.org>

February 21-22, 2008

International Symposium on Biothermodynamics

Frankfurt am Main, Germany

http://events.dechema.de/Biothermodynamics_2008.html

March 4, 2008

4th APS Workshop on Opportunities in Biological Physics

Denver, Colorado

[http://www.aps.org/meetings/
meeting.cfm?name=OPP BIO08](http://www.aps.org/meetings/meeting.cfm?name=OPP BIO08)

March 16-19, 2008

Biomedical Optics

St. Petersburg, Florida

<http://www.osa.org/biomed>

March 29-April 3, 2008

ESF-EMBO Symposium

Molecular Bioenergetics of Cyanobacteria:

Towards Systems Biology Level of Understanding

Sant Feliu de Guixols, Spain

www.esf.org/conferences/08253

May 19-20, 2008

Inserm Workshop on Intrinsically Disordered Proteins

Lyon, France

[http://www.inserm.fr/en/rh/ecole_inserm/ateliers/att00004
645/Atelier185.pdf](http://www.inserm.fr/en/rh/ecole_inserm/ateliers/att00004645/Atelier185.pdf)

July 19-23, 2008

22nd Symposium of The Protein Society

Boston, Massachusetts

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

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