

## 2010 Society Fellows Named

The Biophysical Society has selected six of its members to join the rank of Fellows of the Biophysical Society. The six, listed below, will be honored at the 2010 Annual Meeting Award Ceremony in San Francisco, California.



*Steven M. Block*



*David S. Cafiso*



*G. Marius Clore*



*Michael A. Edidin*



*Shelagh  
Ferguson-Miller*



*Andrew Joshua  
Wand*

### Change in Award Nominations Deadline

In an effort to allow members who attend the Annual Meeting sufficient time to submit nominations material, the Society Awards nomination deadline will now be May 1 of each year, instead of the prior April 1. The deadline for nominations for 2011 awardees is May 1, 2010.

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*Steve nM. Block*, Stanford University, for his innovative approaches to broaden our understanding of mechanical forces on the structure and function of biological macromolecules.

*David S. Cafiso*, University of Virginia, for his seminal contributions to our understanding of the electrostatic properties of membrane bilayers, membrane protein structure, and protein-lipid interactions.

*G. Marius Clore*, NIDDK, National Institutes of Health, for his pioneering contributions in the development of NMR spectroscopy for structural characterization of biological macromolecules.

*Michael A. Edidin*, John Hopkins University, for his continual, highly original and scholarly contributions to the understanding of biomembranes.

*Shelagh Ferguson-Miller*, Michigan State University, for her contributions to understanding the structure and function of integral membrane proteins involved in respiratory electron transport, as well as detergent-based methodologies for isolation, purification and crystallization of membrane proteins.

*Andrew Joshua Wand*, University of Pennsylvania School of Medicine, for his numerous advances in the understanding of protein structure, function and dynamics through the application of state-of-the art magnetic resonance methodologies.

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## Biophysicist in Profile

### Clara Franzini-Armstrong

“It has been said that anyone can be replaced, and in most instances this is true. However, this is not the case with Clara,” says *Paul Allen* about collaborator Clara Franzini-Armstrong, Professor Emerita in the Department of Cell and Developmental Biology at the University of Pennsylvania’s School of Medicine. Allen, Professor of Anesthesia at Brigham and Women’s Hospital in Boston, continues, “My colleagues and I dread the day that Clara will eschew her microscope and lab to spend full time enjoying life and her grandchildren.”

The “irreplaceable” Franzini-Armstrong’s long and accomplished career in science was birthed in the “Cradle of the Renaissance,” Firenze, Italy. Born a year before the start of World War II, she vaguely remembers spending the worst of the wartime in a hill village. Her idyllic postwar childhood included “long leisure periods in beautiful settings like the Dolomites, competing with my brothers on strenuous mountain hikes, my twin brother’s protection and affection, and roller skating in Piazzale Michelangelo, overlooking the whole majestic city.”

Life wasn’t all play; Franzini-Armstrong also studied hard. Her parents were first-generation scientists, but for her and her three brothers, a career in science seemed a natural choice. Their father, an atomic physicist, loved teaching – including his children. Their mother, one of few women then with a physics degree, did not pursue a science career but encouraged her daughter to do so. “She gave me total equality with my brothers in all academic questions,” says Franzini-Armstrong. Her brother Paolo became a particle physicist, Carlo a medical doctor who assembled the first interference microscope in Pisa, and Marco an accomplished mineralogist.

Franzini-Armstrong enrolled in the biological sciences program at the University of Pisa in 1956. At Pisa, she gained three life-changing opportunities. First, the Ministry of Education gave the first electron microscope to the University. Pathology Department Chair Puccinelli “handed me a book, sent me to Rome for a few days to visit an EM lab, and gave me the charge of learning electron microscopy,” she says. She wrote the first EM thesis in Pisa.

Later, Pellegrino urged Franzini-Armstrong to observe changes induced by denervation on skeletal muscle—and she has done electron microscopy of skeletal and cardiac muscle since, for 50 years. The third event was *Keith R. Porter’s* offer of post doctoral training in his laboratory at Harvard University. “A whole new world of cell biology and advanced electron microscopy opened up,” she says. “Porter was a charismatic teacher, a dynamic person who organized cell biology in the US, and a friend.” Her first milestone discovery occurred just two weeks before she was to leave his lab. “I still remember the excitement of being able to demonstrate that transverse tubules open at the cell surface, a key finding

in understanding how muscle is activated to contract,” she recalls.

Franzini-Armstrong credits a dozen other scientists who heavily influenced her work. Among them, *Richard Podolsky* improved her foundation on the physiology of muscle activation as she worked as his research assistant at National Institutes of Health, 1963-64. In *Sir Andrew Huxley's* lab 1964-66, she came to understand contractile machinery, appreciate optics, and better deal with “the early difficulties of trying to raise a family while doing science.” *Paul Horowitz* helped her transition from trainee to faculty member at the University of Rochester, 1967-1975, giving her the freedom to pursue science without heavy teaching and committee work while her children were young.

Of her career, Franzini-Armstrong says, “My main field of interest has been the disposition of membranes and macromolecular complexes that are responsible for excitation-contraction (e-c) coupling in skeletal and cardiac muscles.” She sees four phases to the structural work in her career. Her early work defined the nature and distribution of the two membrane systems involved in calcium cycling. The second phase revealed the location of the channels through which calcium is released during muscle activation and showed that a limiting factor in the design of muscles capable of high activity rates is not the density of calcium release channels, but that of the pump protein. The third phase established the specific relationship between the L type calcium channels of plasmalemma and T tubules—CaV channels or dihydropyridine receptors (DHPRs) and the Ca release channels of the sarcoplasmic reticulum (RyRs)—in skeletal and cardiac muscles. Her current interest is “the supramolecular complex that allows interaction between a number of molecules in the sarcoplasmic reticulum that control calcium release, again using structural approaches to understand molecular interactions.”

Franzini-Armstrong inspires her students and colleagues. “Clara is a scientist with strong determination and humanity at the same time,”

says *Simona Boncompagni*, a researcher at the University G. d’Annunzio of Chieti in Italy. “Her career is characterized by high scientific achievements and immense productivity, but she is always open to new collaborations.” *Paul Allen* agrees. “On a bench at a Biophysical Society meeting 13 years ago, she single handedly saved my career as a scientist and helped create one of the most successful multi-center group collaborations that ever existed. I knew who Clara was from her extraordinary reputation as the world’s premier expert in muscle histology and ultra-structure. What I could not imagine was that she would want to collaborate with me!”

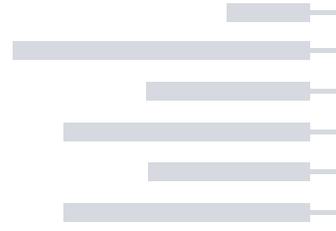
Franzini-Armstrong is married to *Clay Armstrong*, renowned channel electrophysiologist, professor of physiology at the University of Pennsylvania, and recipient of numerous prizes. They have one son and three daughters. John pursued a career in audio engineering and business. Katie is a biochemist currently



Franzini-Armstrong with her grandchildren.

at home with children and pursuing science teaching. Sandra, with physics and music degrees, is principle viola in a symphony and quartet. Cecilia is a neuroscientist now at home with three children.

Franzini-Armstrong claims of her nine grandchildren that “each, of course, is the best that was ever produced.” In addition to enjoying the children, she and her husband like mountain trekking, sometimes in remote regions of the world, and downhill skiing.



# 2010 Annual Meeting Program

## Symposia

*Sunday, February 21*

**8:15 AM–10:15 AM**

### ***Amyloids in Human Disease***

*Frank LaFerla*, University of California, Irvine, Chair  
*Brian Bacsikai*, Massachusetts General Hospital  
*Kevin Foskett*, University of Pennsylvania  
*Charles Glabe*, University of California, Irvine  
*Olga Garaschuk*, Eberhard Karls Universität Tübingen, Germany

### ***The Cytoskeleton: Variations on a Theme***

*Edward Egelman*, University of Virginia, Chair  
*Christine Jacobs-Wagner*, Yale University  
*Iva Tolic-Norrelykke*, Max Planck Institute, Dresden, Germany  
*Roberto Dominguez*, University of Pennsylvania

**10:45 AM–12:45 PM**

### ***Multiscale Structural Analysis of very Large Complexes***

*Andrej Sali*, University of California, San Francisco, Chair  
*Ueli Aebi*, University of Basel, Switzerland  
*Sarah Woodson*, Johns Hopkins University  
*Carol Robinson*, University of Cambridge, United Kingdom

### ***New and Notable***

Speakers to be announced

**4:00 PM – 6:00 PM**

### ***RNAs Large and Small***

*Anna Pyle*, Yale University, Chair  
*Robert Batey*, University of Colorado at Boulder  
*Ruben Gonzalez*, Columbia University  
*Andrew Feig*, Wayne State University

### ***The Proton Gets Channeled***

*Thomas DeCoursey*, Rush University, Chair  
*James Chou*, Harvard University  
*Francesco Tombola*, University of California, Irvine  
*I. Scott Ramsey*, Virginia Commonwealth University  
*Gregory A. Voth*, University of Utah

*Monday, February 22*

**8:15 AM – 10:15 AM**

### ***Protein and Cellular Mechanics***

*Viola Vogel*, ETH Zurich, Switzerland, Chair  
*Manuel Théry*, CEA, Grenoble, France  
*Clare Waterman*, NHLBI, NIH  
*Daniel J. Mueller*, Technical University, Dresden, Germany

### ***Structure and Dynamics of Membrane Transporters***

*Jue Chen*, Purdue University, Chair  
*Olga Boudker*, Cornell University  
*Poul Nissen*, University of Aarhus, Denmark  
*Emad Tajkhorshid*, University of Illinois, Urbana-Champaign

**10:45 AM – 12:45 PM**

### ***Biophysics of the Failing Heart***

*R. John Solaro*, University of Illinois, Chicago, Chair  
*Beata Wolska*, University of Illinois, Chicago  
*Henk Granzier*, University of Arizona  
*Rick Moss*, University of Wisconsin  
*Susan Lowey*, University of Vermont

## **Frontiers in Biophysics**

Speakers to be announced

**4:00 PM–6:00 PM**

### **DNA Nanomachines in Vitro and Inside Living Cells**

*Hao Yan*, Arizona State University, Chair

*William Shih*, Harvard Medical School

*Hermann Gaub*, Ludwig-Maximilians-Universität, München, Germany

*Yamuna Krishnan*, NCBS, TIFR,

Bangalore, India

### **Target Structure-guided Drug Design**

*Philip Cole*, Johns Hopkins University, Chair

*Kavita Shah*, Purdue University

*Jooyoung Lee*, Korea Institute for Advanced Study, Seoul, South Korea

*Michelle Arkin*, University of California, San Francisco

**Tuesday, February 23**

**8:15 AM – 10:15 AM**

### **Epigenetic Control of Gene Expression**

*Aneel Aggarwal*, Mount Sinai School of Medicine, Chair

*Raymond Trievel*, University of Michigan

*Tatiana Kutateladze*, University of Colorado Denver

*John Denu*, University of Wisconsin-Madison

*Xiaodong Cheng*, Emory University

### **TRP Channel Multimodal Gating**

*Ardem Patapoutian*, Scripps Research Institute, Chair

*Diana Bautista*, University of California, Berkeley

*Rachelle Gaudet*, Harvard University

*Haoxing Xu*, University of Michigan

**10:45 AM – 1:30 PM**

### **Awards Symposium**

*Tom A. Rapoport*, HHMI, Harvard Medical School, *Anatrace Membrane Protein Award*

*James A. Hamilton*, Boston University School of Medicine, *Avanti Award in Lipids*

*Crina Nimigean*, Weill Medical College of Cornell University, *Margaret Oakley*

*Dayhoff Award*

*Maria Spies*, University of Illinois,

Urbana-Champaign, *Margaret Oakley*

*Dayhoff Award*

*S. Walter Englander*, University of Pennsylvania, *Founders Award*

*Mark J. Schnitzer*, Stanford University,

*Michael & Kate Bährány Award for*

*Young Investigators*

*Jane Clarke*, University of

Cambridge, United Kingdom,

*U.S Genomics Award for Out-*

*standing Investigator in the Field*

*of Single Molecule Biology*

**4:00 PM– 6:00 PM**

### **Genome Organization and Dynamics**

*Michelle Wang*, Cornell

University, Chair

*Jonathan Widom*, Northwestern University

*Daniela Rhodes*, University of

Cambridge, United Kingdom

*David Sherratt*, University of

Oxford,

United Kingdom

### **Membranes as Barriers in Combating Infection**

*Yecheil Shai*, Weizmann Institute, Rehovot, Israel, Chair

*Hans-Georg Sahl*, University of Bonn, Germany

*Anne Ulrich*, University of Karlsruhe, Germany

*David Craik*, University of Queensland, Brisbane, Australia

*Angel Garcia*, Rensselaer Polytechnic Institute

## Annual Meeting Site is Now Live!

Visit the Biophysical Society Annual Meeting site at [www.biophysics.org/2010meeting](http://www.biophysics.org/2010meeting) for the latest details on submitting an abstract, the scientific program, career and student events and much more.

### *Abstract Deadline*

**October 4, 2009**

## Wednesday, February 24

**8:15 AM–10:15 AM**

### ***Calcium Flickers and Motility at the Leading Edge Membrane***

*Joseph J. Falke*, University of Colorado at Boulder, Chair

*Anna Huttenlocher*, University of Wisconsin-Madison

*Heping Cheng*, Peking University, Beijing, China

*Tobias Meyer*, Stanford University

### ***The 'Un' in Unconventional Molecular Motors***

*Samara Reck-Peterson*, Harvard University, Chair

*Lee Sweeney*, University of Pennsylvania

*Keiko Hirose*, AIST, Tsukuba Ibaraki, Japan

*Matt Tyska*, Vanderbilt University

**1:00 PM–3:00 PM**

### ***Single Molecules Meet Systems Biology***

*Sunney Xie*, Harvard University, Chair

*Johan Elf*, Uppsala University, Sweden

*Naama Barkai*, Weizmann Institute, Rehovot, Israel

*Michael Elowitz*, California Institute of Technology

### ***Mechanism of Electromechanical Coupling in Voltage-gated Ion Channels***

*William A. Catterall*, University of Washington, Chair

*Francisco Bezanilla*, University of Chicago

*Roderick MacKinnon*, Rockefeller University, HHMI

*Todd Scheuer*, University of Washington

*Fredrik Elinder*, Linköping University, Sweden

## Workshops

**Sunday, February 21**

**7:30 PM–9:30 PM**

### ***Applied Single-Molecule Techniques***

*Stephen Quake*, Stanford University, Chair

*Ido Braslavsky*, Ohio University

*Adam Cohen*, Harvard University

*Zev Bryant*, Stanford University

*Jan Liphardt*, University of California, Berkeley

*Adam Muschielok*, Ludwig-Maximilians-Universität, München, Germany

### ***Complementary Methods for Studying Membrane Protein Structure***

*Bonnie Wallace*, Birkbeck College, London, United Kingdom, Chair

Speakers to be announced

### ***Biophysics of Renewable Energy and Cellular Power Plants***

*Chris Somerville*, University of California, Berkeley, Chair

*Manfred Auer*, Lawrence Berkeley National Laboratory

*Isaac Cann*, University of Illinois, Urbana-Champaign

Additional speakers to be announced

**Tuesday, February 23**

**7:30 PM – 9:30 PM**

### ***Membrane Zoology: Model Membranes of Increasing Complexity***

*Steven Boxer*, Stanford University, Chair

*Sarah Keller*, University of Washington

*Jay Groves*, University of California, Berkeley

*Dimitrios Stamou*, University of Copenhagen, Denmark

*Tobias Baumgart*, University of Pennsylvania

### ***Superresolution: Imaging and Probes***

*Jennifer Lippincott-Schwartz*, NICHD, NIH, Chair

*Harald Hess*, Janelia Farm, HHMI

Additional speakers to be announced

**For more information on the Annual Meeting Program visit [www.biophysics.org/2010meeting](http://www.biophysics.org/2010meeting)**

# Subgroups

## Membrane Biophysics

### *Call for 2010 Kenneth S. Cole Award Nominations*

The Membrane Biophysics subgroup solicits nominations for the Kenneth S. Cole Award. This award is presented to an investigator who has made a substantial contribution to the understanding of membrane biophysics. The award will be presented at the subgroup dinner following the Saturday afternoon symposium at the Annual Meeting. Any member of the Membrane Biophysics subgroup may be a nominator. Complete details are available on the website <http://www.biophysics.org/Subgroups/MembraneBiophysics/tabid/513/Default.aspx>. The recipient will be selected by the Selection Committee, comprised of the subgroup Chair, the Chair-elect, the past Chair, the past past-Chair and the Secretary-Treasurer. Nominations should contain a brief statement summarizing the qualifications of the nominee. The deadline for nominations is September 15, 2009. Please email nominations to the subgroup Secretary/Treasurer *Mike White* at [mwhite@drexelmed.edu](mailto:mwhite@drexelmed.edu).

Announcement of the 2010 Cole Awardee and details about the dinner will be posted on the Subgroup website, announced by email, and included in the newsletter.

## Members in the News



*Wenxun Gan* of the University of Chicago and Society member since 2008 received the 2009 CCG Excellence Graduate Student Travel Award given by the American Chemical Society and Chemical Computing Group.



*Steve Granick* of the University of Illinois and Society member since 2005 was awarded the 2009 Polymer Physics Prize from the American Physics Society

*David A. Agard* (not pictured) of the University of California, San Francisco, and Society member since 1991 was elected as a new member of the American Academy of Arts and Sciences.

## New This Year: Education Abstracts

Beginning with the 2010 Annual Meeting, abstracts will be accepted in the area of Biophysics Education. Submissions should describe novel developments in areas such as curriculum, learning aids, clarification of basic concepts and laboratory exercises. Abstracts submitted in this category will not be counted toward the one-sponsored research abstract per member limit. Visit [www.biophysics.org/2010meeting](http://www.biophysics.org/2010meeting) for more information about submitting an education abstract.

# Public Affairs

## Biophysical Society Weighs in on SBIR Legislation

With the Authorization for the Small Business Innovation Research program expiring on July 31, the House and Senate Small Business Committees have been scrambling to pass a new authorization for the program. Both the House and Senate have drafted and passed their version of bills to reauthorize the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs. The program requires federal agencies that spend money on research and development to set aside 2.5% of that money for grants to small businesses.

The Senate version of the bill, passed on July 13, raised the required allocation to 3.5% through a one-tenth percent increases yearly through 2015. The House version did not include this increase.

The Biophysical Society joined several other organizations in sending a letter to the House and Senate committees urging them to keep the required set aside at 2.5%, rather than raise it as proposed in the Senate bill. Rather than increase the set aside at a time of tight budgets for federal agencies, the letter urges Congress to raise the overall funding level for research and development, which in turn, increases the amount available for the SBIR program.

## Francis Collins Tapped to Lead NIH

On July 8, President Obama nominated Francis S. Collins to lead the National Institutes of Health (NIH). Collin's science background is

in medical genetics, and he has been recognized for identifying genes associated with cystic fibrosis, neurofibromatosis, and Huntington's disease. Collins served as the director of NIH's National Human Genome Research Institute (NHGRI) from 1993-2008. As Director of the Institute, he oversaw a \$15 billion annual budget and the sequencing of the human DNA—finishing the process under budget and two years ahead of schedule.

According to a White House press release announcing Collin's selection, President Obama stated, "My administration is committed to promoting scientific integrity and pioneering scientific research, and I am confident that Dr. Francis Collins will lead the NIH to achieve these goals." The *New York Times* expects the Senate to confirm Collins quickly.

Collins has a longstanding interest in the interface between science and faith, and has written about it in *Language of God: A Scientist Presents Evidence for Belief*, published in 2006. He has just completed another book, *The Language of Life: DNA and the Revolution in Personalized Medicine*, slated to be published in early 2010. Collins has been an outspoken advocate in the debate over evolution and faith.

Collins received a BS in Chemistry from the University of Virginia, a PhD in Physical Chemistry from Yale University, and an MD with Honors from the University of North Carolina. Prior to coming to NIH in 1993, he spent nine years on the faculty of the University of Michigan, where he was an investigator of the Howard Hughes Medical Institute. He has been elected to the Institute of Medicine and the National Academy of Sciences, and was awarded the Presidential Medal of Freedom in November 2007.

# NIH Releases New Guidelines for Human Stem Cell Research

On July 6, the National Institutes of Health (NIH) released new guidelines for research using human stem cells. The rules went into effect on July 7. President Obama released an executive order, *Removing Barriers to Responsible Scientific Involving Human Stem Cells*, on March 9 calling on the NIH to establish policy and procedures under which NIH will fund research in embryonic stem cells more broadly than outlined by President Bush's 2001 executive order limiting federal funding to research using 21 preexisting stem cell lines. In response, the NIH released draft guidelines in April, and accepted public comments on that draft through May 26. NIH received close to 49,000 comments from patient-advocacy groups, scientists and scientific societies, academic institutions, medical organizations, religious organizations, private citizens, and members of Congress.

As in the draft rules, the new Guidelines allow funding for research using human embryonic stem cells derived from surplus embryos created by in vitro fertilization (IVF) for reproductive purposes that are no longer needed for that purpose. In order to be eligible for funding, the stem cell lines must meet very specific conditions for informed consent by the embryo donors.

Many of the public comments received by the NIH focused on concern that the 21 stem cell lines approved for use under the Bush administration would not be eligible for federal funding under the new guidelines. Many of these previously approved lines cannot demonstrate the donors' voluntary consent to allow their human embryonic stem cells to be used for research, as required by the new policy.

In response to this concern, the NIH clarified that none of the lines approved by President Bush would be "grandfathered" in, but that a working group comprised of scientists, ethicists and advocates will review them individually and recommend they be eligible for funding if they conform to the spirit of the guidelines.

For lines derived outside the United States, the NIH will determine if the rules under which the stem cells were obtained are "at least equivalent" to the NIH rules.

The guidelines also call for NIH to set up a registry of eligible lines that researchers and institutions can use as a resource. Acting NIH Director Raynard Kington anticipates that the registry will be ready by the fall.

NIH funding for research using human embryonic stem cells derived from other sources, including somatic cell nuclear transfer, parthenogenesis, and/or IVF embryos created for research purposes, is not allowed under the new Guidelines, nor is funding for the derivation of embryonic stem cells. Funding will continue to be allowed for human stem cell research using adult stem cells and induced pluripotent stem cells.

The new guidelines are consistent with the President's campaign promise to lift the ban and fund more human stem cells.

To read the full-text of the guidelines, visit: <http://stemcells.nih.gov/policy/2009guidelines.htm>

# Academic Jobs in India

*This is the second of a two-part article on academic opportunities in India. The article was prepared by Neelanjana Sengupta (n.sengupta@ncl.res.in), a member of the BPS Early Careers Committee. The first part appeared in the July newsletter.*

## Qualifications

Institutions and academic departments vary in their requirements for the basic qualification. In general, the basic qualification for a research or a teaching position is a PhD degree from an institute of repute, with a track record of publications in renowned journals. Postdoctoral experience, though not compulsory, is an added qualification. Teaching experience, if any, is viewed as added merit.

## Hiring schemes

A candidate with a PhD degree followed by a few years of postdoctoral experience is usually hired as an assistant professor in the universities, the IITs, the IISERs, the IISc and the TIFR. Research laboratories, such as those belonging to the CSIR, usually hire a similar person under the designated post of a “scientist” or a “fellow”. The positions are generally associated with a two-year probationary period, at the end of which the candidate’s performance is evaluated and s/he is recommended for a permanent position. Some institutes, however, may offer an initial five-year contract.

## The application process

Institutions normally advertise their requirements on their websites, in Indian newspapers, and in the weekly ‘Employment News’ bulletin. However, a candidate may forward his/her CV for informal consideration to the head of rel-

evant departments, and may be invited to give seminars and meet the current faculty. If you happen to be acquainted with a faculty member, you may also forward your CV through him/her. Some institutions expect potential candidates to give two seminars, one on the research done thus far, and another on a proposal about future research plans. In these cases, the research proposal should preferably not be a simple continuation of work done in the past. When contacting the institution, it is a good idea to specify a tentative schedule (ie., when the candidate can appear for seminars and a target date of joining). If the institute is interested in hiring personnel with a candidate’s expertise, a corresponding post will be advertised to ensure that all qualified people with similar expertise are given a chance. Short-listed candidates are then formally requested to appear for an interview.

## Time taken for the selection process

The time taken for the selection process, starting from the time of sending the CV to the time you receive an offer letter, can often extend up to several months. It is therefore a good idea to start the application process about a year before you plan to start your job. Once you are selected, most institutes should be willing to negotiate the time of joining.

## Fellowships and other opportunities

Since research institutions in India are government owned, positions are usually restricted to those who are citizens of the country. However, the DST and the DBT have recently instituted the Ramanujan fellowship and the Ramalingaswamy fellowship, respectively, for distinguished scientists from all over the world. The CSIR’s schemes for distinguished and outstanding scientists are open to Indians as well as to people of Indian origin. These fellowships are associated with generous research

funds and perks, and could be a viable option for those who wish to spend at least a few years doing research in India. See links in the last section for greater details.

### Some tips on getting informed

Unfortunately, many institutes do not update their websites frequently, and a candidate may face a lack of availability of crucial information during the application process. It should be noted that advertisements in print media are an important platform for information dissipation in India. Information also appears in the Employment News bulletin (available online). The following is a list of websites that a candidate might find useful.

- Universities in India: <http://www.indiaedu.com/universities/>
- DST: <http://dst.gov.in/>
- DBT: <http://dbtindia.nic.in/index.asp>
- DAE: <http://www.dae.gov.in/>
- CSIR: <http://www.csir.res.in/>
- List of CSIR labs: [http://www.cmmacs.ernet.in/cmmacs/other\\_links.htm](http://www.cmmacs.ernet.in/cmmacs/other_links.htm)
- Careers at NCL: [www.ncl-india.org/CareersatNCL/showfile.jsp](http://www.ncl-india.org/CareersatNCL/showfile.jsp)
- Employment news: <http://www.employmentnews.gov.in/>
- Ramanujan fellowship: [http://www.serc-dst.org/ramanujan\\_felloship.htm](http://www.serc-dst.org/ramanujan_felloship.htm)
- Ramalingaswami fellowship: [http://dbtindia.nic.in/Ramalingaswamy\\_fellowships.pdf](http://dbtindia.nic.in/Ramalingaswamy_fellowships.pdf)
- CSIR distinguished and outstanding scientists: [http://www.csir.res.in/CSIR/External/Heads/aboutcsir/announcements/75\\_pos.pdf](http://www.csir.res.in/CSIR/External/Heads/aboutcsir/announcements/75_pos.pdf)

## Grants and Opportunities

**Name:** Alexander Hollaender Award  
in Biophysics

**Objective:** Awarded for outstanding contributions in biophysics. Established by Henrietta W. Hollaender in honor of her husband, Alexander W. Hollaender. Scheduled for presentation in 2010.

**Who may apply:** Any qualified candidate  
Submission deadline: September 15, 2009

**Web link:** <http://www.nasonline.org/site>

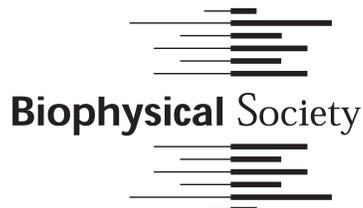
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**Name:** International Fellowships for Beginning Investigators (ACSBI)

**Objective:** To foster a bi-directional flow of knowledge, experience, expertise, and innovation between countries. Programs are intended for beginning investigators and clinicians who are in the early stages of their careers.

**Who may apply:** Eligible candidates should hold assistant professorships or similar positions at their home institutes and have at least two years of postdoctoral experience after obtaining their MD or Ph.D. degrees or equivalents.

**Submission deadline:** December 1, 2009  
**Web link:** <http://www.cancer.org>



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Biophysical Society Newsletter—August 2009

## Upcoming Events

September 6–13, 2009

*EMBO Conference—The Physics of Cells*

Dubrovnik, Croatia

<http://www.conference-service.com/cfs09-04/welcome.cgi>

September 19–November 1, 2009

*10th International Summer School on Biophysics*

Rovinj, Croatia

<http://www.irb.hr/biophysics>

October 17–19, 2009

*2nd Conference on BioMedical Engineering and Informatics*

Tianjin, China

<http://www.tjut.edu.cn/cisp-bmei2009>

October 26–30, 2009

*Physical Principles of Protein Behavior in the Cell*

Dresden, Saxony, Germany

<http://www.mpipks-dresden.mpg.de/~phppbc09/>