Biophysical Society

June 1, 2012

Dear Biophysical Society Member:

The 2012 ballot for the election of President-Elect, Treasurer, and four members of Council is enclosed. Also enclosed are biographical sketches of and statements from all of the candidates.

As you may recall, eligible voting members recently approved the restructuring of the Society's governance by eliminating the Executive Board, reducing the size of Council, and requiring Council to meet at least four times during the year to allow for more effective leadership. This change effectively empowers Council to conduct much of the business previously carried out by the Executive Board. Due to these bylaw changes, only four Society members will be elected to Council in each year, beginning in 2012.

The current slate of candidates was presented by the Nominating Committee to and approved by Council at the Annual Meeting in San Diego. The Committee worked diligently to ensure that the slate reflects the diversity of scientific interests and demographics of the Society membership. Please take a moment to familiarize yourself with the candidates before casting your vote.

The Biophysical Society, currently with over 9,300 members, continues to be a vital and growing organization, thanks in large part to the active involvement of its members. Each year, a larger fraction of the membership participates in the election process. Your participation in the election of the leaders of the Society is vital to its future. Please exercise your right to vote by casting your ballot before the August 1, 2012, deadline.

Sincerely,

Lukas Tamm
Secretary

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Duke University Medical Center

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Lukas Tamm
Early Careers
Damien Samways
Education
Richard Ludescher
International Relations
Felix Goñi
Minority Affairs
Luis Marky
Professional Opportunities for Women (CPOW)
Rajini Rao
Membership
Erin Sheets
Publications
Da-Neng Wang
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11400 Rockville Pike, Suite 800, Rockville, MD 20852 P: (240) 290-5600
F: (240) 290-5555 E: society@biophysics.org W: www.biophysics.org

2012 Nominees for President-Elect

(Vote for One)

Dorothy Beckett

PhD

Department of Chemistry & Biochemistry
Center for Biological Structure & Organization
University of Maryland

Research Interests: Allosteric modulation of protein function, linked equilibria, protein:protein, protein:nucleic acid interactions, thermodynamics, kinetics, transcription regulatory circuits.

Education: AB, Chemistry, Barnard College, 1980; PhD, Biochemistry, University of Illinois Urbana-Champaign, 1986; Postdoctoral Associate, Biochemistry/Biophysical Chemistry, MIT/Johns Hopkins University, 1986–90.

Summary of Professional Experience: Assistant Professor, Biochemistry, UMBC, 1990–1996; Associate Professor, Biochemistry, UMBC, 1996–1999; Associate Professor, Biochemistry, University of Maryland College Park, 1999–2002, Full Professor, 2002–present.

Awards, Honors and Activities: NRSA Postdoctoral Fellow; DuPont Young Investigator: 1993–1996; Charter Member, BBCA Study Section, NIH, 2000–2004; Associate Editor, *Protein Science*, 2009–present; Co-Chair, Biopolymers Gordon Research Conference, 2010; Editorial Advisory Board, *Biochemistry*, 2010–present.

Biophysical Society Activities: Member since 1990; Molecular Biophysics Subgroup, Chair, 2002; CPOW, Chair, 1997–2003; Council 2000–2003; Executive Board, 2001–2003; Annual Meeting Program Committee, 2000–2003; Nominations Committee Chair 2003–2004; Member Services Committee Chair, 2007–2011; Society Secretary, 2007–2011.

Personal Statement: During the past 22 years my membership in the Biophysical Society has immeasurably enhanced my scientific life. Most significantly, because of the breadth of scientific interests of Society members, I have learned an enormous amount of exciting science. Additionally, I have had limitless opportunities to contribute to and benefit from the Society through my participation in virtually all levels of Society activities, most recently as Secretary. My extensive BPS experience, which has involved interactions with members at career levels ranging from student to established investigator, has provided me with an appreciation of the diverse needs and concerns of BPS members.

As Society president my highest priority will be to promote continued scientific excellence in the Annual Meeting, the Society-sponsored thematic meetings, and *Biophysical Journal (BJ)*. Intimately coupled to this scientific excellence is the necessity to maintain the Society's fiscal health. This fiscal health is in large part due to the steady expansion of Society membership, which has grown from approximately 4,000 to over 9,000 members over the past 22 years. A challenge that accompanies this growth is ensuring that members continue to regard the Biophysical Society as a scientific home. Coupled to the increased membership are broadening Society demographics and scientific interests. Active participation in Society activities by the membership requires that this breadth be acknowledged at all levels including scientific meetings, the *BJ* Editorial Board, Society governance and committee activities. Indeed, the Society can exploit the membership's broad ranging scientific interests to encourage cross-fertilization between disparate fields through support of interdisciplinary thematic meetings, special issues of *BJ* and the Annual Meeting symposia. The membership's significant international component (>30%) should also be reflected in Society activities through mechanisms such as facilitating meeting attendance through travel grants, sponsoring thematic meetings at international venues and enhancing international representation on committees and in Society governance. Long-term Society participation by Student and Early Career members can be promoted through creative professional development programs and encouragement of participation in Society committees. Finally, the Society's advocacy for support of basic research and scientific literacy through the activities of the Public Affairs Committee should continue to be an important component of Society efforts.

Ultimately, the Biophysical Society's success depends on the membership's investment in its activities. A conversation that I had with one of my BPS friends at the recent Annual Meeting exemplifies the importance and benefits of member participation. In the course of the conversation my friend thanked me for encouraging him to propose a member-organized platform session on his favorite scientific topic for the Annual Meeting program. The Program Committee accepted the proposal, the resulting session was a great success, and my friend's satisfaction with the experience will sustain his interest in contributing his ideas and efforts to the Society. Continued development of mechanisms for member participation in combination with effective advertisement of these opportunities will guarantee a vibrant future for the Society.

Rajini Rao
PhD

Professor of Physiology,
Director, Graduate Program
in Cellular & Molecular
Medicine
The Johns Hopkins University

Research Interests: Ion transporters in human health and disease. Cellular and molecular mechanisms in calcium signaling, salt and pH homeostasis, and vesicle trafficking.

Education: BS Biology and Chemistry, Mount Carmel College, Bangalore, India 1983; PhD Biochemistry, University of Rochester School of Medicine, 1988; Postdoctoral Fellow and Associate, Genetics, Yale University School of Medicine, 1988–1993.

Summary of Professional Experience: Assistant Professor 1993–1998, Associate Professor 1998–2004, Professor 2004–present, Department of Physiology, The Johns Hopkins University School of Medicine; Director, Graduate Program in Cellular and Molecular Medicine, The Johns Hopkins University School of Medicine, 2008–present.

Awards, Honors and Activities: Program in Biology and Medicine Fellowship, 1984–1985; Elon Huntington Hooker Graduate Fellowship in Chemistry, 1987–1988; Walter Bloor Award for Excellence in Biochemistry, 1989; James Hudson Brown/Alexander B. Coxe Postdoctoral Fellowship, 1988–1989; American Heart Association Postdoctoral Fellowship, Connecticut Affiliate 1990–1991; American Cancer Society Junior Faculty Award, 1994–1997; Nico Van Uden Lecturer at the 21st Annual SMYTE in Bonn, 2003; Keynote speaker, Pan American Plant Membrane Biology Workshop, 2006; Teacher of the Year Award, Graduate Student Association of Johns Hopkins School of Medicine, 2009; Johns Hopkins Professors Award for Excellence in Teaching in Preclinical Sciences, 2009; Hans Prochaska Memorial Lecture Award from Johns Hopkins MSTP/MD-PhD Program, 2009; Conference Organizer and Chair for the Mid-Atlantic Yeast Conference, 2000, 20th Annual SMYTE, 2002, and FASEB Summer Research Conference on Transport ATPases, 2010; Regular Member of Cardiovascular Physiology and Pharmacology Study Section of the National American Heart Association, 2001–2003; Regular Member, NIH Study Section on Physical Biochemistry/Biophysics of Biological Membranes, 2002–2006; College of CSR Reviewers of NIH, 2010–present; Editorial Board Member, *Journal of Biological Chemistry*, 2003–2008; 2011–present.

Biophysical Society Activities: Member since 1996; Council 2006–2009; Executive Board 2007–2008; CPOW Member 2006–2009, Chair, 2009–present; Nominating Committee Chair, 2009, Member, 2010; Annual Meeting Session Chair for *Ion Motive ATPase*, 1996, 2000, 2001.

Candidate's Statement: When a postdoctoral fellow in my group recently asked me why I was a member of the Biophysical Society, my response was immediate: "Because I think like a biophysicist." Over the years, I have explored many approaches to research that span the spectrum of biochemistry, genetics and physiology but my underlying thought processes are always rooted in the quantitative and mechanistic principles of biophysics. The Society meeting has become an annual pilgrimage, not to be missed for the scientific breakthroughs, cutting edge technology, collegial gatherings and mentoring opportunities. If I were President, it would be just another way to serve, and returning some small part, the favor. While the Biophysical Society enjoys unprecedented growth in membership and financial good health, the same cannot be said of the scientific endeavor within the US and elsewhere. Economic downturns have squeezed funding to a historic low, public confidence in research is poor, science education is politicized, while unfounded skepticism undermines environmental issues of global importance. The Society must add its collective voice in pushing back against these threats by supporting open source publication, outreach and education. As individuals, each of us should share the responsibility to engage, educate and advocate for science. I would encourage more real time blogs and podcasts at the Annual Meeting, an evening symposium open to the public, curation of scientifically accurate information on biophysics through online resources (e.g., Wikipedia), and greater outreach through social network platforms (Twitter, Facebook and Google+).The Society should facilitate and expand political action to more effectively influence science policy and funding. Thematic meetings should continue as an important mechanism for the Society to reach our international members. I am passionate about increasing diversity: of geography, gender and generation. We can and should improve upon becoming more inclusive, while retaining scientific excellence. I believe we already put in excellent effort in seeding interdisciplinary research and career development through workshops, panels and minisymposia at the Annual Meeting. These could be extended through more articles in the Society newsletter, which should have a stronger online presence. For *Biophysical Journal* to continue its impressive upward trajectory we need to expand incentives for our membership to submit their best science to the Society journal. It would be my pleasure and honor to take stewardship of the Society on your behalf.

2012 Nominees for Treasurer

(Unopposed)

Paul H. Axelsen

MD

Professor of Pharmacology, Biochemistry and Biophysics, and Medicine
University of Pennsylvania

Research interests: Protein-lipid interactions, molecular recognition and structure-based drug design, protein misfolding and amyloidogenesis.

Education: BS, Biochemistry, University of Minnesota, 1978; MD, Mayo School of Medicine, 1982 (University of Washington, 1981–1982).

Summary of Professional Experience: Postdoctoral fellowships, Mayo Graduate School of Medicine, 1982–1987; Staff Scientist, Mayo Graduate School of Medicine, 1987–1993; Assistant, Associate, and Full Professor (with tenure), Departments of Pharmacology, Biochemistry and Biophysics, and Medicine, University of Pennsylvania, 1993–present; Visiting Scholar, Weizmann Institute of Science, 1992–1993; Visiting Scholar, University of Colorado, 2008–2009.

Awards, Honors and Activities: BS *Summa cum laude*, 1978; Joseph Collins Foundation Scholar, 1979–1982; General Mills Clinician Scholar, 1988; Lucille P. Markey Scholar in Biomedical Science, 1989–1995; Zenith Fellows Award, Alzheimer's Association, 2006–2008; Distinguished Faculty Award, University of Pennsylvania Graduate Group in Pharmacological Sciences, 2010.

National Scientific Activities: Physical Biochemistry Study Section 1999 & 2004; Pharmacology, Biophysics, and MD-PhD Training Study Section 1999–2003; Biophysical Sciences Special Study Section for Member Applications, 2000; Bioterrorism & Therapeutics, Biodefense and Emerging Infectious Diseases Study Section, 2002–2003; Biophysics and Biophysical Chemistry Study Section 2004, Biochemistry and Biophysics of Membranes Study Section, 2006–2009; Biophysics of Neural Systems Study Section, 2007; College of CSR Reviewers, 2010–present; National Scientific Advisory Council, American Federation for Aging Research, 2008–present.

Biophysical Society Activities: Society Member since 1986; Chair, 1998 Annual Meeting workshop; Chair, Membrane Structure and Assembly Subgroup, 2002; Program Committee, 2003–2004; *Biophysical Journal* Editorial Board, 2004–2010; Council, 2005–2008; Executive Board, 2007–2009; Chair, Nominating Committee, 2008; Finance Committee, 2009–present; attended, every national meeting since 1990 (including Kansas City!).

Candidate's Statement: The Biophysical Society is strong and vigorous in these tough economic times because its leadership has remained focused on its core purposes: the promotion of scientific discovery and the exchange of ideas through meetings, publications, and education. As treasurer of the Society, I would place highest priority on maintaining this focus.

2012 Nominees for Council

(Vote for Four)

Nathan Baker

PhD

Chief Scientist for Signature Science, Pacific Northwest National Laboratory

Research Interests: Computational biophysics and physical chemistry; biomolecular solvation and electrostatics; nanomaterial-biological interactions; applied mathematics and scientific computing.

Education: BS, Chemistry, University of Iowa, 1997; PhD, Physical Chemistry, University of California San Diego, 2001; Postdoc, Computational Biology, University of California San Diego, 2001–2002.

Summary of Professional Experience: Assistant Professor, Dept. of Biochemistry and Molecular Biophysics, Washington University in St. Louis School of Medicine, 2002–2006; Associate Professor with tenure, Dept. of Biochemistry and Molecular Biophysics, Washington University in St. Louis School of Medicine, 2006–2010; Chief Scientist for Signature Science, National Security Directorate, Pacific Northwest National Laboratory, 2010–present.

Special Accomplishments: Howard Hughes Medical Institute Predoctoral Fellow; Alfred P Sloan Research Fellow; American Chemical Society Hewlett-Packard Junior Faculty Excellence Award; Editor-in-Chief for *Computational Science and Discovery*; Fellow, American Association for the Advancement of Science.

Biophysical Society Activities: Society member since 2001; Early Careers Committee, 2004–2007; Program Committee, 2005–2008; CPOW, 2007–2010; Nominating Committee, 2009–2010; *Biophysical Journal* Editorial Board, 2008–2011; Public Affairs Committee, 2010–present.

Other Scientific Societies: Fellow of the American Association for the Advancement of Science; member of American Chemical Society, American Physical Society, and Society for Industrial and Applied Mathematics.

Candidate's Statement: The Biophysical Society has played an important role in my career development, being the professional society closest to my research interests and offering numerous opportunities for involvement and engagement. In the current troubling research climate, the Society has a responsibility and opportunity to work even harder to continue to recruit talented junior scientists to careers in biophysics. Growth in biophysics will be driven not only by traditional areas of research but also through engagement with emerging fields such as nanotechnology. If elected, I will work to strengthen and grow the Society's efforts to engage scientists from diverse disciplines and demographics in biophysical research.

Shelagh Ferguson-Miller

PhD

Professor of Biochemistry & Molecular Biology, Michigan State University

Research Interests: Membrane protein structure and function; molecular mechanism and regulation of energy transduction in cytochrome c oxidase using crystallography, spectroscopy and biochemistry/molecular biology.

Education: BS, Physiology & Biochemistry, University of Toronto, 1964; MA, Biochemistry, University of Toronto; PhD, Biochemistry, University of Wisconsin Madison, 1971; Postdoctoral Fellow, Biochemistry, Oxford University UK, 1971–1972; Postdoctoral Fellow, Research Associate, Northwestern University, 1972–1978.

Summary of Professional Experience: Assistant Professor, 1978–1982; Associate Professor 1982–1987; Professor, 1987–present; Chair, 2003–2008, Biochemistry & Molecular Biology, Michigan State University; University Distinguished Professor, 1997–present.

Awards, Honors, and Activities: American Heart Association Research Program and Evaluation Committee, 1994–1998; Chair Gordon Research Conference on Protons and Membrane Reactions, 1996; Chair Gordon Conference on Bioenergetics, 1997; Gordon Research Conferences Selection & Scheduling Committee,1999–2001; NIH NIGMS Council (2003–2007), American Association of Biochemistry & Molecular Biology (ASBMB) Council, 1999–2002; ASBMB Nomination and Publications Committees, 2004–2007; NIH Merit award (2000–2010); Fellow of the American Society for the Advancement of Science, 2008; Michigan Association of Governing Boards Outstanding Faculty Award, 1998; Distinguished Faculty Award, Michigan State University, 1996; University Distinguished Professor 1997–present.

Biophysical Society Activities: Society Member since 1981; Biophysical Society Bioenergetics Subgroup Executive Committee 1983–1986, 1999–2001, 2007–2010; Fellow of the Biophysical Society, 2010; Anatrace Membrane Protein Award, Biophysical Society, 2011.

Candidate's Statement: The Biophysical Society is a dynamic and growing organization that fosters a critically important interface between physical and biological sciences, which provides a stimulating environment for mutual education and generation of new ideas and new techniques. The Subgroup model has been particularly effective in broadly engaging the membership in achieving the goals of the Society and will be key to our future development. I have benefited greatly from being a part of the Society and would like to help it continue to flourish.

2012 Nominees for Council

Betty J. Gaffney
PhD

Professor,
Department of Biological Science
Florida State University

Research Interests: Biophysics of unsaturated lipids and enzymes related to them, especially lipoxygenase; magnetic resonance of paramagnetic biomolecules (EPR, metals, spin labels); chemical biology.

Education: BS, Chemistry, Stanford University, 1961; PhD, Chemistry, Stanford, 1966; Postdoc, Chemistry, Tohoku University, Sendai, Japan, 1966–1968; Research Associate, Stanford, 1968–1973.

Summary of Professional Experience: Assistant Prof, Chemistry, Johns Hopkins University, 1974; Associate Prof, Chemistry, Johns Hopkins, 1977; Prof, Chemistry, Johns Hopkins, 1982; Prof, Biological Science, Florida State University, 1996–present.

Special Accomplishments: NIH Postdoc Fellowship, 1966–1967; Varian Associates Postdoc 1968; NIH Res Career Development Award, 1975–1980; NIH BBCB Study Section, 1979–82, 1994–99, Chair 1997–99; Chair, Co-Chair of Gordon Conference Magnetic Resonance in Medicine & Biology, 1990–1992; Plenary Lecture, 9th International Conference on Prostaglandins & Related Compounds, 1994; Council, International Society for Magnetic Resonance, 2001–2010.

Biophysical Society Activities: Society member since ~1974; *Biophysical Journal* Editorial Board 1982–1988, 2007–2013; Publications Committee, 1986–1989, Chair 1989; BPS representative on FASEB Publications Committee 1992–1998, Chair 1994–1996; Fellow of the Biophysical Society, 2009.

Candidate's Statement: Symposia of past Annual Meetings of the Society are summarized in the front of the 2011 Membership Directory: a fantastic list! My own career has been strongly influenced by the meetings and participation in committees of the Society. Clearly past Council members fully met the charge of the Bylaws "to determine the policies for the good of the Society and the science it represents." I would like to put my time in now to maintain that tradition. Every age has special challenges in identifying and disseminating the best science. For instance keeping Annual Meetings affordable, and providing a personal touch for poster authors, especially new presenters, are among current challenges that especially interest me. Council can contribute to public policy on science education and funding by emphasizing the many cost-saving research techniques that originated with biophysics innovation.

Ruben L. Gonzalez, Jr.
PhD

Associate Professor,
Department of Chemistry
Columbia University

Research Interests: Molecular mechanism and regulation of protein synthesis by the ribosome; approaches include single-molecule fluorescence microscopy, fluorescence spectroscopy, and biochemistry.

Education: BS, Chemistry, Florida International University, 1995; PhD, Chemistry, University of California Berkeley, 2000; Postdoctoral Fellow, Structural Biology/Applied Physics, Stanford University, 2005.

Summary of Professional Experience: Assistant Prof, Dept of Chemistry, Columbia University, 2006–2011; Associate Prof, Dept of Chemistry, Columbia University, 2011–present.

Special Accomplishments: Cum laude, Florida International University, 1995; American Cancer Society Postdoctoral Fellow 2001–2005; Burroughs Wellcome Fund Career Award in the Biomedical Sciences 2004; NSF Career Award, 2007; Member, NSF Prokaryotic Molecular and Cellular Biology Review Panel, 2007–2011; American Cancer Society Research Scholar Award, 2008; Distinguished Columbia Faculty Award, 2009; Faculty Member, Faculty of 1000, 2010; Member, American Cancer Society RNA Mechanisms in Cancer Review Panel, 2010–present; Camille Dreyfus Teacher-Scholar Award, 2011; Editorial Board, *J Mol Biol*, 2012–present

Biophysical Society Activities: Society member since 1999; Reviewer, *Biophysical Journal*, 2006–present; Members of my research group and I regularly attend and present at the Annual Meeting.

Other Scientific Societies: The RNA Society, American Cancer Society, American Chemical Society, American Association for the Advancement of Science.

Candidate's Statement: As scientists strive to quantitatively understand biology at ever-increasing resolution, the Society will play critical roles in supporting this undertaking, training the next generation of biophysicists to execute this work, and communicating the importance of this pursuit to society. I have benefitted tremendously from membership in the Society throughout my graduate, postdoctoral, and faculty careers and it would be an honor for me to give back to the Society by serving as a Councilor. If elected, I would focus on: (i) developing the most cutting-edge programs possible for the Annual Meetings; (ii) promoting career-development resources, particularly those that help bridge the undergraduate, graduate, and faculty careers of the youngest biophysicists, and (iii) supporting initiatives to educate the public on the contributions that biophysical research is making towards solving some of the world's most pressing scientific problems.

Jason M. Haugh
PhD

Professor of Chemical & Biomolecular Engineering, North Carolina State University

Research Interests: Regulation of signal transduction networks in mammalian cells; cell adhesion, motility, and directed cell migration; assembly of signaling complexes; live-cell fluorescence microscopy; computational modeling and analysis.

Education: BS, Chemical Engineering, North Carolina State University, 1994; PhD, Chemical Engineering, M.I.T., 1999; Postdoc, Duke University Medical Center, 1999–2000.

Summary of Professional Experience: Assistant Professor, 2000–2006, Associate Professor, 2006–2010, and Professor, 2010–present, Department of Chemical & Biomolecular Engineering, North Carolina State University.

Special Accomplishments: Valedictorian, North Carolina State University, 1994; NSF Graduate Fellow, 1994–1997; Camille & Henry Dreyfus New Faculty Award, 2000; NSF CAREER Award and Presidential Early Career Award for Scientists and Engineers, 2002; Office of Naval Research Young Investigator Award, 2003; Camille Dreyfus Teacher-Scholar Award, 2005; co-instituted and -chaired the first International Conference on Biomolecular Engineering, 2007; served on the Modeling and Analysis of Biological Systems NIH study section, 2007–2011; Organizing Committee, Carolina Biophysics Symposium, 2007–present.

Biophysical Society Activities: Society member since 2000; *Biophysical Journal* Editorial Board, 2007–present; regular contributor and reviewer of articles in the Journal.

Other Scientific Societies: American Society for Cell Biology, Biomedical Engineering Society.

Candidate's Statement: I am grateful for the opportunity to run for Council and to serve the Society in this important way. I published my first paper in *Biophysical Journal*, and as my laboratory has drawn upon an increasing number of disciplines, biophysics has remained at the core. As a Council member, I would strive to maintain the momentum that has been gained through steady growth of the Society in membership and meeting attendance. I would hope to contribute ideas to further enhance the multi-disciplinary profile of the Society as a bridge between mechanistic and theoretical biology, and I would advocate for initiatives to reach out to junior scientists, who are being drawn in increasing numbers to quantitative biology under the banners of systems and synthetic biology.

Matt Lang
PhD

Associate Professor, Department of Chemical & Biomolecular Engineering Vanderbilt University

Research Interests: Molecular and cellular machinery, functional measurement of biological parts, single molecule biophysics, instrumentation development.

Education: BS Chemistry, University of Rochester, 1992; PhD, Chemistry, University of Chicago, 1997; Postdoctoral associate positions: UC Berkeley/LBNL, Princeton University, Stanford University, 1998–2002.

Summary of Professional Experience: Associate Professor, Department of Chemical & Biomolecular Engineering, Vanderbilt University, 2010-present; Associate Professor, Departments of Biological Engineering and Mechanical Engineering, M.I.T., 2008–2010; Assistant Professor, Departments of Biological Engineering and Mechanical Engineering, M.I.T., 2002–2008.

Special Accomplishments: NSF Career Award, 2007; Frontiers of Engineering Speaker, National Academy of Engineering, 2007; W.M. Keck Career Development Professor in Biomedical Engineering, 2003–2006, M.I.T.; Jane Coffin Childs Postdoctoral Fellowship, 1999–2002, Stanford University; Chemistry Department Ombudsperson, 1995–1997, University of Chicago; Student body president, 1991–1992, Dr. W.W. and Maude V. Flagg Award, 1992, University of Rochester.

Biophysical Society Activities: Society member since 1999; Motility Subgroup member. I have served by reviewing abstracts and organizing poster and talk sessions for past meetings. Members of my lab and I regularly attend and present at the national meetings. I have sponsored many new members to the Society.

Candidate's Statement: I am honored to be nominated to serve on the Biophysical Society Council. I will work to maintain the outstanding impact the society has had on its members. The BPS meetings provide important opportunities for interaction among colleagues, such as reunions among institution affiliations, lab groups and research communities. I will work to more formally nucleate these activities to increase both social and scientific interactions among colleagues. The BPS meeting has a particularly vibrant poster session, uniquely fostering interactions between new members and senior investigators. I will work to strengthen these mentoring and networking opportunities at the poster sessions.

Juliette Lecomte

PhD

Professor,
Biophysics Department
Johns Hopkins University

Research Interests: Determinants of protein stability, structure and dynamics in solution; heme protein structure, function, and evolution; NMR spectroscopy.

Education: BS, Chemistry, Université de Liège, Belgium, 1977; MS, Chemistry, Carnegie-Mellon University, 1980; PhD, Chemistry, Carnegie-Mellon University, 1982; Postdoctoral Associate, Chemistry, University of California, Davis, 1983–1987.

Summary of Professional Experience: Assistant Professor, Dept of Chemistry, Penn State University, 1987–1993; Associate Professor, Dept of Chemistry, Penn State University, 1993–2007; Professor, Dept of Chemistry, Penn State University, 2007; Professor, Dept of Biophysics, Johns Hopkins University, 2007–present.

Biophysical Society Activities: Society member since 1986; Biophysical Society Dayhoff Award judge, 1997; Annual Meeting Platform Organizer, 1998; New Faculty Career Lunch Moderator, Annual Meeting, 2004; IDP subgroup 2007–present; regular attendee of Annual Meeting.

Other Scientific Societies: American Association for the Advancement of Science, American Chemical Society, American Society for Biochemistry and Molecular Biology, Protein Society.

Candidate's Statement: The Biophysical Society fulfills its mission to encourage development and dissemination of knowledge in biophysics in many effective ways. Activities that are vital to the future of the field inside and outside the United States include assisting young scientists as they begin a career in biophysics, reaching out to a broad audience of scientists and non-scientists, and maintaining excellence in all Society sponsored events and publications. I would consider it a privilege to serve the Society in the capacity of Council member and contribute to its efforts in those directions. I would endeavor to expand the range of topics in the program of the Annual Meeting and intensify public affairs as well as mentoring activities.

Amy Lee

PhD

Associate Professor,
Departament of Molecular Physiology & Biophysics,
Otolaryngology-Head and Neck Surgery, and Neurology
University of Iowa

Research Interests: Regulation of voltage-gated Ca^{2+} channels, Ca^{2+} signaling and cell regulation, EF-hand Ca^{2+} binding proteins, mechanisms of cardiac and neuronal excitability.

Education: BS, University of Michigan, 1990; PhD, Neuroscience, University of Virginia, 1998; Postdoctoral Associate, Dept. of Pharmacology, University of Washington, 1998–2002.

Summary of Professional Experience: Assistant Professor, Dept. of Pharmacology, Emory University, 2002–2008; Associate Professor, Depts. of Molecular Physiology & Biophysics, Otolaryngology-Head and Neck Surgery, and Neurology, University of Iowa, 2008–present.

Special Accomplishments: Eric Lothman Award for Outstanding Achievement in Neuroscience, University of Virginia, 1997; PhRMA Foundation Research Starter Award, 2002; Co-organizer, Ion Channels Course, Cold Spring Harbor Laboratories, 2009–2010; Carver Foundation Research Program of Excellence Award, 2011; Member, NTRC study section, 2011–present; *Molecular Pharmacology* Editorial Board, 2012–present.

Biophysical Society Activities: Society member since 2011.

Other Scientific Societies: Society for Neuroscience, 1996–present; Association for Research in Otolaryngology, 2008–present.

Candidate's Statement: I am honored to be nominated for membership on the Biophysical Society Council. The Society plays important roles in stimulating the fields of quantitative biology through the annual and thematic meetings, public affairs involvement, and career development/training. As a Council member, I would work to maintain the excellent track record of the Society in these endeavors and to provide fresh insights into key areas. In particular, I would encourage new initiatives within the Society for career development of women and minorities. In addition, I would promote the use of new technology such as interactive poster displays to enliven the Annual Meeting. Finally, I would strongly advocate on behalf of the Society for interdisciplinary funding initiatives such as those between NIH and NSF that will exploit science at the interface of the life and physical sciences in the development of innovative treatments and cures for human disease.

2012 Nominees for Council

Crina Nimigean

PhD

Associate Professor of Physiology and Biophysics in Anesthesiology, Associate Professor of Biochemistry, Weill Cornell Medical College

Research Interests: Molecular mechanisms of ion channel function. Approaches: electrophysiology, X-ray crystallography, isothermal titration calorimetry, biochemistry on ion channels in nanodiscs.

Education: BS/MS, Physics, University of Bucharest, 1995; PhD, Physiology and Biophysics, University of Miami, 1999; Postdoctoral Associate, Biochemistry, Brandeis University, 2000–2005.

Summary of Professional Experience: Assistant Professor in Physiology and Membrane Biology, University of California at Davis, 2005–2008; Assistant Professor of Physiology and Biophysics in Anesthesiology, Weill Cornell Medical College, 2008–2011; Associate Professor of Physiology and Biophysics in Anesthesiology, Weill Cornell Medical College, 2011–present.

Awards, Honors and Activities: Romanian National Scholarship Award, 1990–1995; TEMPUS Fellowship Award, 1995; American Heart Association Florida Affiliate Predoctoral Fellowship, 1998–2000; Margaret Dayhoff Award, 2010; Councilor, Society of General Physiologists, 2011–2013; Irma T. Hirschl Career Scientist Award, 2011–2016; Editorial board, *Journal of General Physiology*, 2012.

Biophysical Society Activities: Biophysical Society member since 1997; Membrane Biophysics Subgroup, since 2009; Permeation and Transport Subgroup, since 2009; Chair of the Permeation and Transport Subgroup, 2010–2011; I have attended every meeting since 1997, and members of my lab attend every meeting and present their research.

Other Scientific Societies: Society for Neuroscience, Society of General Physiologists, American Chemical Society, New York Academy of Science, American Association for Advancement of Science.

Candidate's statement: I am very grateful for the opportunity to run for the Biophysical Society council. If I am elected I will continue supporting the high quality programs and presentations at the Annual Meeting and attempt to refresh and expand the program by recruiting participation of a larger number of scientists from outside of the United States. I will also try to advocate for a program to foster the growth and scientific expansion of young scientists from countries with less of a tradition in biophysical research and fewer resources.

David Rueda

PhD

Associate Professor, Department of Chemistry Wayne State University

Research Interests: Molecular mechanisms of RNA folding and splicing, DNA replication and deamination; approaches include fluorescence spectroscopy and single molecule microscopy.

Education: Diploma, Chemical Engineering, EPF Lausanne, 1997; PhD, EPF Lausanne, Physical Chemistry, 2001; Postdoctoral Fellow, Biophysics, University of Michigan, 2001–2005.

Summary of Professional Experience: Assistant Professor, Department of Chemistry, Wayne State University, 2005–11; Associate Professor, Department of Chemistry, Wayne State University, 2011–present.

Special Accomplishments: Ciba Award for Best Diploma, 1997; Swiss SNF Postdoctoral Fellow, 2001; NSF CAREER award, 2008; Liberal Arts and Sciences Teaching award, 2010; Future of Biophysics Burroughs Welcome Fund Symposium Speaker, 2011; Visiting Faculty Fellow, University of Kyoto, 2011; Outstanding Junior Faculty award, Wayne State Academy of Scholars, 2011; A. Paul Schaap Faculty Scholar, 2011.

Biophysical Society Activities: Society member since 2005; Platform session chair, 2009, 2010; Laboratory members and I attend the Annual Meeting regularly.

Other Society Activities: Co-organizer, Michigan RNA Society Meeting, 2006; Platform session chair, RNA Society Meeting, 2009; Co-organizer, Rustbelt RNA Meeting, 2009, 2010; Focus symposium organizer, American Physical Society March Meeting, 2010.

Candidate's Statement: Over the past decade, the Biophysical Society has provided a unique environment for my group members and myself to grow and develop as biophysicists. I am grateful for the opportunity to run for Council because it gives me the possibility to give back in return. As a Council member, I will devote my efforts into not only maintaining the high quality of our Annual Meeting, but also fostering smaller regional meetings, which play crucial roles in student professional development. I will also help strengthen and expand existing Society efforts to include young scientists from underrepresented minorities and mentor their scientific growth. It will be a great honor to serve the Society as Council member.

Vinzenz Unger

PhD

Professor,
Department of Molecular Biosciences,
Northwestern University

Research Interests: Structure and function of membrane proteins and membrane-associated scaffolds; current focus is on mechanisms of cellular copper uptake and membrane remodeling; approaches include electron cryomicroscopy, biochemistry, cell biology, and in vivo imaging.

Education: Diploma, Biochemistry, University of Tübingen, Germany, 1981; PhD, Biochemistry, Cambridge University/MRC-LMB, England, 1995; Postdoc; Scripps Research Institute, La Jolla, 1998.

Summary of Professional Experience: Group Leader, Department of Structural Biology, MPI for Biophysics, Frankfurt, Germany 1998–2000; Assistant Professor 2000–2004 and Associate Professor 2005–2009, Department of Molecular Biophysics and Biochemistry, Yale; Professor, Department of Molecular Biosciences, Northwestern University, 2010–present.

Special Accomplishments: American Heart Association Postdoctoral Fellow, 1996–1998; Hellman Fellow, 2000–2004; Robert Leet and Clara Guthrie Patterson Trust Fellow, 2001–2003; NIDA Cutting Edge Research Awards, 2003–2005 and 2008–2010; Recipient of Searle Leadership Fund of Northwestern University, 2009; NIH BBM study section, 2011–present.

Biophysical Society Activities: Society Member since 1998; Exocytosis & Endocytosis Subgroup member; Permeation and Transport Subgroup member; I and members of my laboratory have attended most BPS meetings over the past 10 years.

Other Scientific Societies: American Society for Biochemistry and Molecular Biology.

Candidate's Statement: Having been a member for over decade I am excited about the opportunity to run for Council and to give back to a Society that has enriched my professional path for many years. Being extremely passionate about education and teaching, I would strive to further enhance mentoring of students/postdocs and to build support networks for young biophysics faculty. I am also interested in strengthening the Society's outreach efforts and to increase its presence in secondary education. At the programmatic level, my main interest lies in promoting ties of biophysics with other disciplines and to advocate for increased support of fully integrated science.

Antoine van Oijen

PhD

Professor
Zernike Institute for Advanced Materials
University of Groningen,
The Netherlands

Research Interests: Development and use of single-molecule techniques to study DNA replication, DNA repair, viral fusion, and membrane transport.

Education: MSc, Physics, Leiden University, the Netherlands, 1996; PhD, Physics, Leiden University, the Netherlands, 2001; Postdoc, Dept. of Chemistry and Chemical Biology, Harvard University, 2001–2004.

Summary of Professional Experience: Postdoc, Dept. of Chemistry and Chemical Biology, Harvard University, 2001–2004; Assistant Professor, Dept. of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, 2004–2010; Full Professor, Zernike Institute for Advanced Materials, Groningen University, the Netherlands, 2010–present.

Special Accomplishments: Human Frontier Science Program postdoctoral fellowship, 2002; National Science Foundation CAREER Award, 2006; Armenise-Harvard Junior Faculty Award 2006; Searle Scholar, 2007; American Cancer Society Research Scholar, 2008; Dutch Society for Biochemistry and Molecular Biology award for most promising young biochemist, 2011; Vici Award Dutch Science Foundation, 2011; ERC Starting Grant, 2011; Scientific advisory board Ion Torrent Systems; Editorial board *BMC Biophysics*, *Cell Reports*.

Biophysical Society Activities: Society member and regular participant of Annual Meetings since 2001; Co-chaired several platform sessions; I consider the Biophysical Society as the perfect meeting for the members of my lab, not only to attend and learn, but also to present and build up a professional network.

Candidate's Statement: My career has benefitted tremendously from the many great opportunities provided by the Biophysical Society to my research group and me. I am thankful for the chance to run for the Biophysical Society Council and I am looking forward to devote time and energy to help support the Society and facilitate its further strengthening as a wonderful professional organization. In particular, I am interested in enhancing the role of the Annual Meeting as a platform for young scientists in the graduate and postdoctoral stages of their career to establish a professional network. Further, I would like to strengthen the important role of the Society and its Annual Meeting in helping scientists from countries in which research and education is done under challenging societal and economic conditions.

Bonnie Ann Wallace

PhD

Professor of Molecular Biophysics, Birkbeck College, University of London, United Kingdom

Research Interests: Circular Dichroism Spectroscopy and Synchrotron Radiation Circular Dichroism Spectroscopy—Development of Methods and Applications; Structure and Function of Membrane Proteins.

Education: BS, Chemistry, Rensselaer Polytechnic Institute, 1973; PhD, Molecular Biophysics and Biochemistry, Yale University, 1977; D.Sc., Biological Crystallography, University of London, 1995; Postdoctoral Associate, Biological Chemistry, Harvard University, 1977–1979; Postdoctoral Associate, MRC-Laboratory of Molecular Biology, Cambridge, 1979.

Summary of Professional Experience: Assistant, then Associate Professor, Dept of Biochemistry and Molecular Biophysics, Columbia University, 1980–1986; Professor of Chemistry and Director, Center for Biophysics, Rensselaer Polytechnic Institute, 1986–1992; Reader, then Professor, Dept of Crystallography, Birkbeck College, University of London, 1992–present.

Awards, Honors and Activities: Sigma Xi; Phi Lambda Upsilon; Jane Coffin Childs Fellow, 1977–1979; Irma T. Hirschl Career Scientist Award, 1980; First Annual Dayhoff Award of The Biophysical Society, 1985; Camille and Henry Dreyfus Teacher-Scholar Award, 1986; Fogarty Senior Fellowship, 1990; Fellow, Royal Society of Chemistry, 1993; BSG Prize of the British Crystallographic Association, 1994; Fellow, American Association for the Advancement of Science, 1999; Fellow, Institute of Biology, 2001; Interdisciplinary Prize of the Royal Society of Chemistry, 2009; AstraZeneca Award of The Biochemical Society, 2010.

Biophysical Society Activities: Society member since 1977 (I have attended all but 2 meetings of the Society since then); National Council, 1983–1986; Chairman, Nominating Committee, 1987; National Council, 1991–1994; International Relations Committee, 1997–2003; Organizer, Membrane Protein Workshop, 2010.

Candidate's Statement: In the many years since I moved my lab to the UK, I have maintained my involvement with the Society. I believe the Biophysical Society is the premier international organization in biophysics today, and must continue to play an important role in the communication of breaking edge science, and in the promotion, teaching and recognition of biophysics worldwide. I especially believe it is important to involve both national and international students and postdocs in the activities of the Society, as they are not only its future but the future of biophysics research and teaching worldwide.

Thorsten Wohland

Dr. ès sc./PhD

Associate Professor, Departments of Biological Sciences and Chemistry National University of Singapore

Research Interests: Development of fluorescence tools for quantitative biological measurements; fluorescence correlation and single molecule spectroscopy and related methods; membrane proteins and signal transduction; peptide membrane interactions; cell membrane organization.

Education: Pre-diploma in Physics Technical University of Darmstadt, 1991; Diploma in Physics (equiv. MSc) University of Heidelberg and European Molecular Biology Laboratory 1995; Dr. ès sc. (equiv. PhD) Swiss Federal Institute of Technology at Lausanne, 2000; Postdoctoral Fellow, Stanford University, 2000–2002.

Summary of Professional Experience: Research Scientist, Institute of Inhalation Biology, GSF-Research Center for Environment and Health, 1996–1997; Assistant Professor, Dept. Of Chemistry, National University of Singapore, 2002–2008; Associate Professor, Dept. of Chemistry, National University of Singapore, 2008–2011; Associate Professor, Depts. of Biological Sciences and Chemistry, National University of Singapore, 2012–present.

Special Accomplishments: NATO Travel Scholarship Award, 1999; Postdoctoral Scholarship, Swiss National Science Foundation, 2000; Alexander von Humboldt Fellowship, 2009; Outstanding Scientist Award, Faculty of Science, NUS, 2009; NUS Graduate School Teaching Commendation Award 2009/10.

Biophysical Society Activities: Society member since 1999; member of Biophysical Fluorescence and Nanoscale Subgroups; I have attended most of the Biophysical Society meetings since joining and my group members are regular participants.

Other Scientific Societies: Singapore Biophysical Society (founding member) since 2010.

Candidate's Statement: The Biophysical Society and its activities and publications have been an important part in my own career development. It would be a privilege to serve on the Council and help other scientists to benefit from the society and its activities as I did. I would be particularly interested in helping younger scientists to further their career path within biophysics, in creating stronger ties with other biophysical societies, in particular in Asia where I am situated but also in other regions, and help organize and stimulate focused biophysical society meetings. I am also very interested in keeping the *Biophysical Journal* the publication of choice for biophysicists in the future with its constructive review process, and its strong emphasis on a broad biophysical content ranging from method development to applications in biology.