



ASPEN CENTER FOR PHYSICS

2013 WINTER CONFERENCE

ON

BIOPHYSICS

January 6 – 11, 2013

Sunday through Friday evening, inclusive

SINGLE MOLECULE BIOPHYSICS

This will be the 7th biennial workshop on Single Molecule Biophysics (SMB) held at the Aspen Center for Physics (ACP), building on a successful conference series begun in 2001. The SMB meeting highlights recent progress in the field of single molecule biophysics on both its experimental and theoretical frontiers. Topics vary somewhat every year. Biological systems covered in past meetings have included mechanoenzymes (myosin, kinesin, dynein, ATP synthase, flagellar motors), nucleic acid-based enzymes (polymerases, topoisomerases, helicases, etc.), nucleic acids (DNA & RNA), and aspects of molecular physiology (folding/unfolding, binding, signaling, and other biostructural changes). Featured experimental techniques have included fluorescence, optical trapping, magnetic tweezers, scanned-probe microscopy, and super resolution microscopy. The workshop traditionally admits a mixture of experimentalists and theorists. Biologists and physicists with either newfound or longstanding interests in biophysics are encouraged to apply: all levels of accomplishment are welcome. The meeting features a lively mix of students and professors. The SMB workshop has been oversubscribed in the past, so higher priority will be assigned to applicants presenting important new findings who commit to remain for the duration of the meeting. In the event of oversubscription, a limit of two representatives from each participating scientific group or collaboration will be adopted. We will attempt to award each group or collaboration one short talk based on the applications submitted. All attendees are also invited to present posters. Prospective participants should submit the following:

A short abstract (<200 words) of the proposed contribution along with a title, names, and affiliations of any co-authors. Abstracts will be ranked and used as a basis for admission.

- Indicate if you wish the abstract to be considered for a talk: otherwise, a poster presentation will be assumed
- Indicate that you intend to attend the full meeting, if accepted. If a partial attendance is necessary, please be sure to state the reason.

In years past, funds have been raised to help defray a portion of the expenses for junior participants, or for those traveling a very long way. Fund-raising continues and we intend to maintain this tradition. In addition, one junior applicant will receive a merit-based scholarship award from a special endowment fund for the ACP Winter Meetings.

Application deadline is October 15, 2012

Please complete your application at: jila.colorado.edu/smb

ORGANIZERS:

Steven Block, Stanford University
Thomas Perkins, JILA

The Aspen Center for Physics is committed to a significant participation of women and under-represented groups in all of its programs.

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