



## NEWSLETTER 2019

### # 12 – December

- ✓ Calls for Positions [CfPo]
- ✓ Congresses [CONGR]
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- ✓ EBSA News associated with  
biophysics [Ebsa]
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SIBPA [bySIBPA]



**[by SIBPA] Lettera del Consiglio Direttivo SIBPA**



18 dicembre 2019

Care Socie, cari Soci,

si chiude un anno di intensa attività per SIBPA, che ha visto la nostra Società impegnata in numerose iniziative volte a promuovere la ricerca in campo biofisico e tese a sostenere la formazione di giovani ricercatori e la loro partecipazione a convegni scientifici.

Anche nel 2020 l'attività di SIBPA proseguirà con le sue iniziative istituzionali, che saranno come sempre pubblicizzate sul nostro sito web e tramite l'invio della newsletter periodica. In particolare, cogliamo l'occasione per ricordare che il prossimo anno il congresso della Società si svolgerà a Parma, dal 7 al 9 luglio. L'edizione 2020 si terrà, per la prima volta, in modo congiunto a quello della Società Italiana di Fotobiologia (SIFB). L'evento cade, inoltre, nell'anno in cui Parma sarà capitale italiana della cultura e ospiterà numerosi eventi a carattere culturale, sia riservati al grande pubblico, sia di tipo specialistico. La sede del convegno sarà l'Aula Magna dell'ateneo parmense, situata all'interno della sede storica dell'Università.

Tra le iniziative volte a valorizzare il lavoro dei giovani ricercatori in campo biofisico, teniamo a ricordare il premio "Gianfranco Menestrina", per la miglior tesi di laurea, e il premio "Antonio Borsellino", per la migliore tesi di dottorato, che verranno assegnati in occasione del congresso SIBPA. Il bando relativo uscirà a breve.

Il Consiglio Direttivo SIBPA invia a voi e alle vostre famiglie i migliori auguri di buone feste e di un sereno e proficuo 2020.

Il Consiglio Direttivo

Paolo Bianchini  
Silvia Caponi  
Vincenzo Martorana  
Carlo Musio (past President)  
Valeria Maria Rondelli

Antonella Sgarbossa  
Francesco Spinozzi  
Lorenzo Stella  
Massimo Vassalli (Segretario tesoriere)  
Cristiano Viappiani (Presidente)

[by SIBPA] [CONGR] Congresso Nazionale congiunto SIBPA-SIFB 2020



Convegno congiunto  
**SIBPA - SIFB 2020**

7-9 luglio 2020  
Università di Parma



**Società Italiana di  
Biofisica Pura e Applicata  
XXV Congresso Nazionale  
SIBPA 2020**

**Società Italiana di  
Fotobiologia  
Congresso Annuale  
SIFB 2020**

## Topics

Molecular Biophysics

Cell and tissue Biophysics

Systems Biophysics/ Environmental  
Biophysics

Light -responsive materials

Light and human health

In vitro photodynamic investigations:  
focus on antimicrobial and  
antitumoral strategies

Applied Photobiology and Biophysics

Photobiology and Biophysics at the  
nanoscale

Optical and spectroscopic methods  
applied to Biology and Medicine



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[sibpa-sifb2020.unipr.it](http://sibpa-sifb2020.unipr.it)

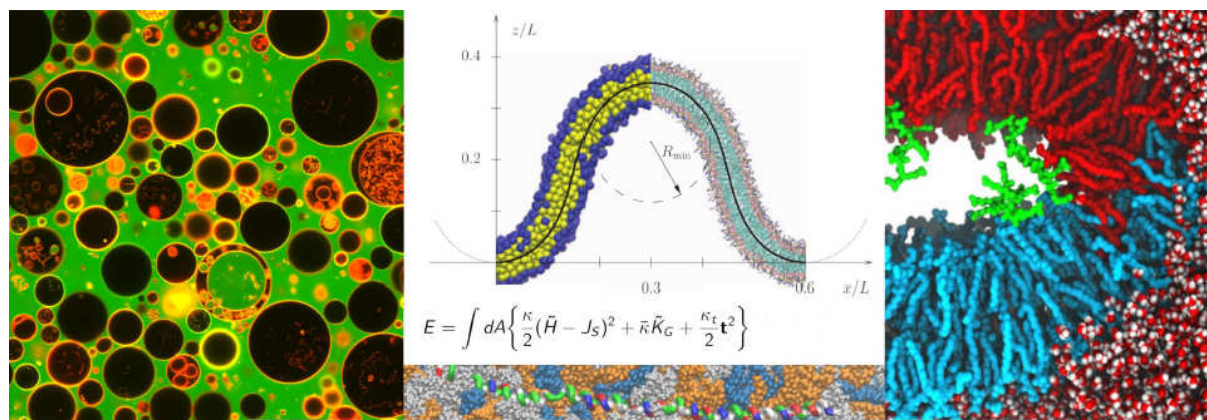
**[CfPO] [Ebsa] 100Postdoc and PhD positions - Biomembrane Remodeling : Multiscale Simulation and Theory**

I will open a new group at the faculty of Mathematics and Physics in Charles University, Prague starting this January. I have a postdoctoral position to offer - this position will be focused on molecular dynamics simulations in combination with continuum models. (Helfrich etc.) The final aim is the construction of a toolkit for the description of biomembrane remodeling induced by proteins and other complex adsorbates. An alternative possible project is semiconductors in membranes. In this project molecular dynamics simulations are combined with advanced electronic structure calculations to improve the spectroscopic sensitivity of nanoparticles in membranes.

Applications of PhD students are also welcome.

Prospective students need to register by **31.12.2019**. Starting time for the programme is March 2020. All PhD projects deal with biomembrane remodeling, its multiscale simulation and theoretical aspects.

Applications to either: [allolio@karlin.mff.cuni.cz](mailto:allolio@karlin.mff.cuni.cz) or [allolio@fh.huji.ac.il](mailto:allolio@fh.huji.ac.il) .  
Christoph Allolio



**PhD and Postdoc Positions Available - March 1, 2020**

in the new PRIMUS group at the Mathematical Institute of Charles University  
**Theory of Biomembranes - Molecular Simulation Group**

The group offers interdisciplinary research projects centered on the theoretical modeling of **biomembranes** and their interactions. Our approach combines

- ▷ Molecular Simulations
- ▷ Continuum Theory
- ▷ Electronic Structure
- ▷ Biophysical Models

with experimental data from international collaboration partners. Together we will create a new framework to improve the modeling of biomembranes and apply it to the important questions in biomedical research. For more information contact the PI: Christoph Allolio - [allolio@fh.huji.ac.il](mailto:allolio@fh.huji.ac.il)

**[CfPO] PhD studentship offer at DZNE (Amin Lab), Dreseden, Germany**

I am Hayder Amin, in April 2018, I started my research laboratory at the German Center for Neurodegenerative Diseases (DZNE) in Dresden, Germany. Having done my PhD in Italy, I witnessed the fascinating science and culture in the details of daily life. I would wish to have it happening in my lab to inspire other young scientists. Therefore, I am currently recruiting a PhD student, and I would highly appreciate your support in disseminating the job advert within the Society (nationally and internationally, if possible). My lab is looking for a motivated, talented PhD student for **developing and implementing advanced electrophysiological methods**. The job advert can be found on the below links.

Thank you in advance for your time and support, and I would highly appreciate your kind feedback,

DZNE website: <https://jobs.dzne.de/en/jobs/40456/phd-studentship-fmd-electrophysiological-methods-for-deciphering-large-scale-activity-dependent-neuroplasticity-8022201911>

Naturejobs: <https://www.nature.com/naturecareers/job/phd-studentship-fmd-electrophysiological-methods-for-deciphering-largescale-activitydependent-neuroplasticity-german-center-for-neurodegenerative-diseases-within-the-helmholtz-association-dzne-712429>

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**[CfPO] [Ebsa] Postdoctoral Research Associate in Computer Simulation of interfacially adsorbed antibody molecules (Imperial College London, Univ Manchester and Astra Zeneca)**

The Department of Chemistry at Imperial College London is looking to employ a Postdoctoral Research Associate to work in the research project “Computer Simulation of interfacially adsorbed antibody molecules”. This research is part of a collaboration with the Department of Physics at the University of Manchester and Astra Zeneca.

This post will focus on the investigation of interaction of antibody molecules with surfaces of different compositions, including polymers and inorganic surfaces. The successful candidate will implement models of antibodies and surfaces and use these in molecular dynamics computer simulations to investigate conformational changes in the biomolecules. Further, the simulations will be used to support neutron reflectivity experiments and will be expected to contribute to the development of software for the neutron reflectivity characterization of antibodies at liquid and solid interfaces.

Further information and the application procedure can be found in the link:

<https://www.imperial.ac.uk/jobs/description/NAT00561/research-associate-computer-simulation-interfacially-adsorbed-antibody-molecules>



**[WS/SY] [Ebsa] Faraday Discussion: Peptide-Membrane Interactions (London, UK, September 7-9, 2020)**

Dear Colleague,

The deadline for registration and abstract submission of the XXII. Annual Linz Winter Workshop in Linz, Austria (held from January 31st until February 3rd, 2020) has been extended to **December 15th, 2019**.

The workshop will focus on biological single molecule research and nano-science, and include force and optical microscopy/spectroscopy techniques. It is the aim to provide a common platform for industry and academia.

List of confirmed participating companies:

Bruker, Nanosurf, NT-MDT, Cytosurge, Polypure, Oxford Instruments, NanoAndMore, Lumicks, Recendt, Postech, Lumicks;

Program:

Friday, January 31st, 7.00 pm: Get together and Registration.

Saturday, February 1st: Talks and Poster Sessions, Evening: City Tour & Dinner.

Sunday, February 2nd: Talks and Poster Sessions, Evening: Conference Reception.

Monday, February 3rd: Talks continued until 6 pm.

We will also arrange a skiing day in the Austrian alps on January 31st, and a Winter School for young scientists and new-comers from January 28th until January 30th.

Confirmed Speakers:

Plenary Speaker:

Hermann Gaub (LMU, Munich)

List of confirmed invited speakers:

David Alsteens (UCLouvain)

Toshio Ando (Univ. Kanazawa)

Dario Anselmetti (Univ. Bielefeld)

Mitchell Doktycz (ORNL)

Yves Dufrene (UCLouvain)

Ulrike Endesfelder (MPI Marburg)

Georg Fantner (EPFL, Lausanne)

Laura Finzi (Emory Univ.)

Marco Fritzsche (Univ. Oxford)

Ricardo Garcia (CSIC, Madrid)

Gabriel Gomila (IBEC, Barcelona)

Rainer Hillenbrand (NANOGENE)

Stefan Jakobs (Univ. Göttingen)

Alexander Jesacher (MedUniv. Innsbruck)

Eric Lesniewska (Univ. Burgundy, Dijon)

Hongbin Li (UBC Vancouver)

Mervyn Miles (Univ. Bristol)

Pierre-Emmanuel Milhiet (INSERM)

Joon Won Park (Postech, Pohang)

Shivprasad Patil (IISER, Pune)

Steve Presse (Arizona State Univ.)

Matthias Rief (Tech. Univ. Munich)

Simon Scheuring (Cornell Univ.)

Ulrich Schmid (TU Vienna)

Thomas Schmidt (Univ. Leiden)

Wesley Wong (Harvard Univ.)

Sebastian Wood (Natl. Phys. Lab., UK)

Liming Ying (Imp. Coll. London)

We would very much look forward to your coming. Further information and registration is available at <https://www.jku.at/institut-fuer-biophysik/veranstaltungen/linz-winterworkshop/>

Sincerely yours,  
Peter Hinterdorfer & Gerhard Schütz  
Conference Chairs

**[CONF/MT] [Ebsa] Faraday Discussion: Peptide-Membrane Interactions (London, UK, September 7-9, 2020)**

I would like to invite you to the XXI Conference of the International Society for Biological Calorimetry (ISBC) that will be organized on June 10-12, 2020, in Vilnius, Lithuania, where application of calorimetry in biotechnology, health, environmental, food, and other sciences will be discussed. If you would like to give an oral presentation, please submit a preliminary title of your talk in December. For more information and to submit an abstract (before February 15, 2020) and register (before March 15, 2020) please see [www.biocalorimetry.org](http://www.biocalorimetry.org).

Sincerely,  
Daumantas

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*[Newsletter closed on 18/12/2019]*