SIBPA
Società Italiana di Biofisica Pura e Applicata
fondata nel 1973

Member Society of
EBSA
Biophysics in Europe

NEWSLETTER 2019

11 – November

- ✓Calls for Positions [CfPo]
- ✓Congresses [CONGR]
- ✓Conferences/Meetings [CONF/MT]
- ✓Workshops/Symposia [WS/SY]
- ✓Courses and Schools [CS]
- ✓Call for papers/applications [CfP/A]
- ✓EBSA News associated with biophysics [Ebsa]
- ✓Media (communication) [MC]
- ✓Events sponsored a/o supported by SIBPA [bySIBPA]

[by SIBPA] XXIV International School of Pure and Applied Biophysics SIBPA-IVSLA

NEW APPLICATION DEADLINE December 6th, 2019

The XXIV International School of Pure and Applied Biophysics, jointly organized by the Italian Society for Pure and Applied Biophysics (SIBPA) and the Venetian Institute of Sciences Letters and Arts (IVSLA), will focus on **Applications of X-rays and Neutron Scattering in Biology** and will be held at the magnificent Venetian Institute of Sciences Letters and Arts (IVSLA), 27-31 January 2020, Venice, Italy.

All info at https://tiny.cc/BiophysicSchool-2020 for program, registration and updates

Scattering techniques based on X-rays and neutrons have proven to be two of the most powerful techniques for studying biological structures. At the interface between Biology, Physics and Chemistry, the school will survey recent advances of X-rays and neutrons techniques to probe the properties of biological structures, from both static and dynamic view-point. Combining theoretical and application lectures, the school will introduce the following topics: The physics of scattering, Neutron production and neutron facilities, X-ray production and X-ray facilities, Reflectometry, Small-angle Scattering, Crystal and powder diffraction, Inelastic scattering, X-ray absorption fine structure (XAFS), Imaging, XFEL in biology. Of note, in addition to lectures, **a visit to the ELETTRA synchrotron** in Triest will allow students to perform practical activities in state-of-art instruments.

An amazing blend of top level lecturers ready for lessons, seminars and student interactions in the unique scenario offered by Venice in Winter.

Invited teachers:

Heinz Amenitsch (Graz, Austria)
Fabio Bruni (Rome, Italy)
Trevor Forsyth (Keele, United Kingdom)
Giovanna Fragneto (Grenoble, France)
Achille Giacometti (Venice, Italy)
Irene Margiolaki (Patras, Greece)
Paolo Mariani (Ancona, Italy)
Claudio Masciovecchio (Triest, Italy)
Silvia Morante (Rome, Italy)
Maria Grazia Ortore (Ancona, Italy)
Alessandro Paciaroni (Perugia, Italy)
Valeria Rondelli (Milan, Italy)
Daniela Russo (Grenoble, France)
Giorgio Schirò (Grenoble, France)
Francesco Spinozzi (Ancona, Italy)
Francesco Stellato (Rome, Italy)
Giuliana Tromba (Triest, Italy)
Beatrice Vallone (Rome, Italy)
Martin Weik (Grenoble, France)
Joseph Zaccai (Grenoble, France)

Lessons will be held in the magnificent Palazzo Franchetti,
https://www.youtube.com/watch?v=-Lwff6AX5wE

See you in Venice in January

Paolo Mariani, Maria Grazia Ortore, Francesco Spinozzi (Polytechnic University of Marche, coordinators of the School)
Giorgio M. Giacometti (IVSLA and University of Padua, director of the School)

[by SIBPA] Nanoengineering for Mechanobiology 2020

Dear Scientist,
this message is to advertise the upcoming Nanoengineering for Mechanobiology (N4M) symposium, to be held from 22 to 25 March 2020 in Camogli, a fishermen village on the Italian coast (look at the venue here: https://www.cenobio.it). You can find all the details for the conference on-line at http://2020.mechanobiology.eu , including the running list of keynote speakers ; if you are curious about the origin and spirit of the meeting, have a look at the editorial of the special issue of Biophysical Reviews dedicated to the first 4 editions of the symposium: https://doi.org/10.1007/s1255
The deadline for submitting contributions and to qualify for early bird registration is **November 30**.
Please note that N4M is proud to be an EBSA-sponsored event. EBSA is supporting 2 bursaries for attendance for students and early career researchers interested in the conference and currently based in the EU area. Full details can be found on the EBSA website (http://ebsa.org/portal/bursaries#bursaries) and the application has to be done through the conference website (http://2020.mechanobiology.eu/#studentsupport).
We hope to see you there; feel free to contact us if you have any questions,
The organizing committee,
Massimo Vassalli, Aldo Ferrari, Silvia Caponi

[CfPO] [Ebsa] Research Associate in Single Molecule Biophysics at King's College London

The group of Prof. Sergi Garcia-Manyes in the Department of Physics at King's College London is seeking a highly motivated individual with a PhD in Physics, Biophysics, Physical Chemistry or related disciplines with an interest in working on mechanobiology from the single molecule perspective.
The candidate will work on the development and application of two force spectroscopy single molecule techniques (atomic force microscopy and magnetic tweezers) to unravel the dynamics under force of several proteins that are physiologically exposed to mechanical forces.
See here for full details: https://www.jobs.ac.uk/job/BWJ360/research-associate
Closing Date: 1st December 2019
Contact: sergi.garcia-manyes@kcl.ac.uk

[CfPO] [Ebsa] 100% PhD position in Computational Biophysics, Molecular Dynamics

A 100% PhD position is available in Saarbrücken, Germany, as part of the Innovative Training Network "PROTON" funded by the Marie Skłodowska-Curie Actions. Please find the job announcement here: https://www2.daad.de/deutschland/promotion/phd/en/13306-phdgermany-database/?detail=3598
Prof. Dr. Jochen Hub, Theoretical Biophysics Group, Dept of Physics, Saarland University Campus E2 6, Zi. 4.11, 66123 Saarbruecken, Germany, https://biophys.uni-saarland.de/

[CfPO] [Ebsa] Postdoc position in computational biochemistry/biophysics at University of Gothenburg

Dear All,
I am looking for a talented postdoc to join my research team. To apply, please follow the link below.
In computational biochemistry/molecular modelling group, we investigate mechanisms of failures in transcriptional control, coupled to individual genetic variants, which trigger cancers. We use a variety of in silico approaches from classical MD to AI, as well as develop new tools. To find out more details and apply, follow the link:
https://www.gu.se/english/about_the_university/job-opportunities/vacancies-details/?id=5062

Dr. Anna Reymer, Researcher, team leader
Computational biochemistry group, Department of chemistry and molecular biology, University of Gothenburg, Box 462, 405 30 Göteborg, Sweden

---

[CfPO] [Ebsa] Postdoctoral Position: Biophysics of Membrane Polypeptides or Fibers

The laboratory **Membrane Biophysics and NMR at the University of Strasbourg** has an opening for a postdoctoral position with experience in using biophysical techniques for the analysis of peptides and proteins associated with membranes or with fibers. The aim of the project is to reveal the structural determinants that define lipid recognition in membranes and to characterize changes in structure, dynamics, oligomerization and topology of the protein as well as the lipids during recognition. Another ongoing project is the structural investigation of peptide fibers with strong nucleic acid and lentiviral transfection potential.
Candidates should have good experience in biophysical methods used during the investigation of membranes. Techniques of the laboratory include biomolecular solid-state NMR, solution NMR approaches, optical methods, light scattering, ITC, peptide synthesis and/or the biochemical production of proteins. The candidate should have good knowledge of some of these techniques, particularly searched after a experts in MAS solid-state NMR of polypeptides. S/he should have an interest in working in a highly interdisciplinary, international and collaborative environment. The project and position are funded by a three-year grant from the French National Agency for Research (ANR). The University of Strasbourg chemistry, life sciences and structural biology departments have excellent scientific records, with a multitude of collaborations world-wide.
Strasbourg is a very nice city on the French side of the Rhine river, at the border to Germany, with easy access to nearby mountains (Vosges, Black Forrest, Alps). Being in the heart of Europe it takes only short train rides to multiple destinations of scientific and/or touristic interest.
Candidates should send their CV, publication list and contact info for three references to:

Prof. Burkhard Bechinger, bechinger@unistra.fr www-chimie.u-strasbg.fr/~rmnmc www.icfrc.fr/en/

[CfPO] 3 Brain, Sales Representative, Genova, Italy

3Brain AG
Einsiedlerstrasse 30
8820 Wädenswil
Zürich, Switzerland

Sales Representative

THE COMPANY

3Brain is a young, fast-growing, dynamic company focusing on brain technologies, one of the most fascinating research and business sectors with multiple applications and impacts on human life. 3Brain's mission is to provide state of the art technology to support life science research and improve human health. In particular 3Brain develops, manufactures and distributes high-quality instruments based on our patented CMOS multi-electrode array, a high-resolution neuro-electronic chip. The company is headquartered in Switzerland nearby Zurich, has a SW R&D office in Italy, and has installed its products in laboratories and pharma companies worldwide also thanks to its network of distributors covering among others US, Canada, China and Japan.

More info: http://www.3brain.com/about.html

JOB DESCRIPTION

3Brain is looking for a full-time sales representative for its office in Genova, Italy. The candidate will focus on the European market and will provide support to 3Brain's distributors in other areas. The candidate will promote and sell 3Brain's products to research labs and pharma companies.
Main tasks will include:

- Customer acquisition with cold calling, webinars, on-site visits, demos and contract negotiation
- Identifying new clients and customer segments
- Supporting distributors by abroad, on-site meetings with distributors' potential customers
- Supporting marketing activities by participation at international congresses and trade shows
- Calculating client quotations and administering client accounts
- Providing product education and after-sales support services including customer care, consulting, application support

REQUIRED QUALIFICATIONS

- Fluency in English
- Bachelor/Master/PhD degree in biology/bio-engineering/biophysics
- Experience with electrophysiology instruments, such as patch-clamp or, better, Multi Electrode Array technology
- Extroverted and performs well in social engagements with excellent communication and relationship skills
- Availability to travel worldwide for short periods (conferences, meetings, demos, etc.)
- Initiative, independence and ability to communicate and work effectively with other team members in a multicultural and international environment

ADDITIONAL QUALIFICATIONS

- 2+ years of experience in sales or proven track record

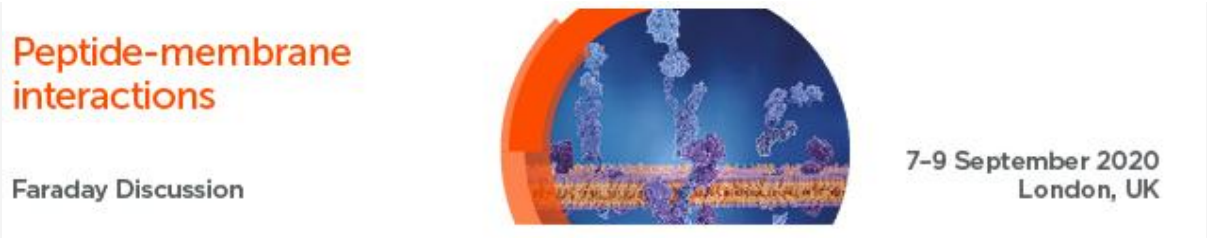
WHAT WE OFFER

- A dynamic and stimulating work environment in a young, emerging company
- Possibility of professional growth
- Training and incentives to sales
- Flexible work hours

To apply send an email with CV and short motivation letter to info@3brain.com, subject: sales representative - IT

+41 81 327 08 6 • info@3brain.com • www.3brain.com

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



Royal Society Faraday Discussion meeting: **http://www.rsc.org/events/detail/37143/peptide-membrane-interactions-faraday-**

Please note that the deadline for submission of Oral Abstracts is Monday 2nd December 2019.

The meeting will cover all aspects of how peptides as macromolecules interact with membranes; from basic theoretical considerations embodied in computational models, wet experimental studies of model systems through to living membranes and synthetic biology applications. Thus, the questions we will address bridge the divides between aspects of the fundamental physical chemistry of macromolecular polyelectrolytes and cell biology as well as drug development and synthetic biology

We believe that a FD meeting will be a great format to consolidate and develop this entire field, with the unique dialectical emphasis of the Faraday meeting promoting a level of focus on key questions whilst allowing a sense of context to be retained that other meetings do not meet.

We would like strongly to encourage you to submit a paper for consideration for presentation at the meeting. The nature of the meeting format requires pre-circulation of the papers to the participants for discussion at the meeting. We are keen, therefore, to ensure the highest quality of science is represented at the meeting. Following the meeting the papers and the discussion will be collected together into a single volume (as with previous meetings eg : https://pubs.rsc.org/en/content/ebook/978-1-84973-688-6)

John Seddon, Imperial College London.

[CS] [Ebsa] EBSA Course on Problems and Methods in Membrane Biophysics (Fuenterrabia / Hondarribia, Spain, June 2020)

EBSA is continuing its Advanced Courses on Biophysics, and due to popular demand, this is 6th of the series focusing on PROBLEMS AND METHODS IN MEMBRANE BIOPHYSICS.
This 5-day advanced course is for PhD students, post-docs and young scientists.
The registration includes full accommodation (housing and meals) and is heavily subsidised by EBSA to ensure widest possible participation.
The number of participants is limited to 40, with preference given to graduate students.

Organizers:: Alicia Alonso, Felix M. Goni, Anthony Watts

For further details, please see: https://biophysics.wixsite.com/bilbao

---

[WS/SY] [Ebsa] Workshop announcement and invitation, COMPUTER SIMULATION AND THEORY OF MACROMOLECULES 2020

Due to the continuously high and rising demand for discussing recent advances in biomolecular simulation, we will organise the 'Computer Simulation and Theory of Macromolecules' workshop again in 2020. We cordially invite you and in particular your students and postdocs to participate.
The workshop aims to promote exchanges between the biomolecular theory and simulation communities of Germany and its neighboring countries. To this end, considerable time is planned for discussions during meals and the poster session.

The workshop will take place from April 3-4, 2020 at the Monastery Huenfeld.
For further information, please refer to https://www.mpibpc.mpg.de/grubmueller/huenfeld

Unfortunately, we are not able to refund expenses for travel or accommodations. But we can offer affordable accommodations and meals starting at € 110,- to make it easier for students, graduate students and postdocs to attend.

Please register by February 4, 2020 at https://www.mpibpc.mpg.de/grubmueller/huenfeld/registration

Volkhard Helms, Helmut Grubmüller

[Newsletter closed on 25/11/2019]