

## **6<sup>th</sup> EBSA European Biophysics Congress** **London (U.K.), July 14<sup>th</sup> – 18<sup>th</sup>, 2007**

Organized by The British Biophysical Society.

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## Welcome to the 6<sup>th</sup> European Biophysics Congress

Dear All

On behalf of the Scientific and Organising Committees, I am pleased to welcome you in London for the 6<sup>th</sup> EBSA European Biophysics Congress. This Congress is the first in our new biennial schedule of Congresses, thus marking increased interest in, and development of Biophysics in Europe and also increased international recognition of the EBSA Congress. Indeed, at the time of writing this welcome note, 886 registrations and 718 abstracts have been received, from 46 countries representing every region of the world. As my colleagues in EBSA and in the British Biophysical Society will know, I have wanted to bring the EBSA Congress to the UK for a long time. This was driven largely by the observation that relatively few UK biophysicists participated in the European Congresses, something my European spirit wanted to remedy. At least here, British scientists are well represented. We welcome them too, and hope that they will be inspired to continue to attend EBSA Congresses in the future.

Imperial College is one of the foremost British universities, celebrating this year its Centennial Anniversary. The College houses world leading departments and scientists, many of whom are biophysicists in the departments of Physics, Mathematics, Chemistry, Biochemistry, Biology and Bioengineering, and in the Medical School. You will see from your time here that the compact South Kensington Campus is ideal for the promotion of interdisciplinary collaborations, and that it benefits from being surrounded by world famous landmarks, all only a few minutes walk away. We shall however do our best to keep you here in the scientific sessions, but hope that you will take additional time to discover the area.

EBSA is the organisation that, with its journal the European Biophysics Journal, brings the European Biophysics Congresses to you. EBSA is important to European Biophysics. One of the many accomplishments of EBSA is its ability to sponsor young biophysicists through its bursaries. The 6<sup>th</sup> EBSA Congress is supporting thirty eight bursars mainly from countries where funding for attending international meetings is hard to come by.

EBSA is your organisation. Please treasure it, and help it in any way you can so that it may promote Biophysics through conferences, courses, scientific exchanges and through its Journal. Your attendance at the EBSA General Assembly on Tuesday (Great Hall, 14:00) will give you the opportunity to see how EBSA operates, to influence it through your elected national representatives, and may encourage you to become more involved in its activities. Please join the General Assembly, even if you are not a voting member. My colleagues and I are working to the best of our abilities to make sure that your stay in London is worthwhile and enjoyable, both scientifically and socially, and that the Congress marks for you a time of new collaborations, new discoveries and new opportunities. We hope you find the 6<sup>th</sup> EBSA Congress to be stimulating, thought-provoking and productive, and that you will plan to attend the 7<sup>th</sup> Congress, to be held in Genoa, Italy, on 11–15 July 2009.

*Michael A. Ferenczi*  
*Chairman, Organising Committee*  
*Vice-President, EBSA*

## EBSA Welcome

The European Biophysical Societies' Association welcomes you in London for the 6<sup>th</sup> of European Biophysics Congress.

As the President of EBSA, and on behalf of all adhering National societies, I would like to express thanks to our hosts, the British Biophysical Society and Imperial College of London. The British Biophysical Society set up a fantastic scientific program with very attractive sessions covering all aspects of Biophysics. I would like to particularly thank Prof Anthony Watts, chairman of the scientific committee, for his very strong involvement. Imperial College of London is providing its grounds, amphitheatres, rooms and open areas for the congress venue. Prof Michael Ferenczi, chairman of the organizing committee, made an incredible job in managing the entire congress organisation in a very nice and historical place.

EBSA initiated biophysics congresses in Orleans (1997), Munich (2000), Alicante (2003) and Montpellier (2005) - the first congress was before EBSA was formally constituted, but it was where EBSA was set up (See "EBSA - the early days" from Peter Bayley in this volume). The last congress was organized jointly with the International Union of Pure and Applied Biophysics and welcomed about 1300 scientists. At the time of writing, the number of already registered participants for the London congress let us believe that the 6<sup>th</sup> congress will have the same success as the 5th. This demonstrates the good health of European Biophysics and the increasing interest of interdisciplinary scientists in Mathematics, Physics, Chemistry, Biology, Medicine and Pharmacy to discuss their new discoveries in front of a very challenging audience.

I would also like to thank scientists from less-favoured European countries where science and travel to conferences is not easy, but who made a special effort in coming to London, despite the congress costs which we tried to reduce as much as possible. In this sense, the EBSA committee awarded about 40 fellowships for Ph.D. students and young scientists to ensure their attendance at the congress. Most of these fellowships were given to scientists coming from countries where science is still developing. Despite the excellence of all young scientists asking for support, we unfortunately could not give a

grant to everyone. We would also like to thank National Societies which also provided financial support to some of their members for coming to London. We are also indebted to those societies who are now organizing their National congress every even year to favour the participation to the European congress held every odd year.

EBSA is trying to go further and enhance exchange of young scientists among countries or favour the organization of international schools in Biophysics. I am convinced that EBSA and the European Union can make a fantastic job in promoting Biophysics, not only to academic but also to industry and all people from Europe.

EBSA's strength comes from the strength of the adhering National societies, that is to say, from your own enthusiasm for interdisciplinary sciences. The future of European Biophysics depends on your personal participation which I hope will get stronger and stronger as EBSA also grows.

I wish you a very exciting congress in London.

Bordeaux, France, 29<sup>th</sup> April 2007

*Erick J. Dufourc*  
*President of EBSA*

## THE EUROPEAN BIOPHYSICS JOURNAL AND THE 6TH EBSA/BBS EUROBIOPHYSICS CONGRESS

The European Biophysics Journal is the publication voice of EBSA which holds the copyright for the Journal, and is published by Springer. We have enjoyed a long and highly co-operative interaction with Springer, and I am delighted that they have been so supportive of the 6<sup>th</sup> EBSA Congress by co-sponsoring it and supporting some of the Plenary lectures and requirements needed for such an event. Sabine Schreck, Peter Butler and Sabine Taeger, under Dieter Czeschlik are a great team to work with, not only in getting the abstract book, a citable supplement to the Journal, prepared, but over the years in production and management of EBJ - their drive to grow the journal is now paying off with our target of becoming a monthly journal almost realized. The financial contribution of EBJ through its publication to all the congresses is vital and important, and it is a pleasure to be involved with this result of the Journal's activity.

Special mention must also be made for Eric Quiniou, whose superb software (developed for the last congress in Montpellier) and unending devotion to getting the final .pdf files ready for publication, have made everyone's input, from abstract submission by participants right through to publication and cataloguing, so painless and easy. We very much hope to use this approach again for subsequent EBSA congresses.

Since this now biannual event does generate new interest in EBJ, I would like to thank Mike Ferenczi and the British Biophysical Society on behalf of the Editorial Board of EBJ for their efforts over the last two years to get this congress off the ground, and so widely advertised to produce such a tremendous participation in numbers. This has been done with not insignificant sacrifice to research and personal activity, for the benefit of the community, and as such this amount of effort is difficult to appreciate until one is immersed in it personally. Mike and his local colleagues, especially John Seddon at Imperial College and Rob Cooke at Harlow for sponsorship responsibilities, have worked tirelessly at every detail of the congress, and we wish it every success.

The origin and connection between EBSA and EBJ are reported here by Peter Bayley, in a short commentary which I hope can be expanded upon at some stage, to provide a history of EBSA and its activities. We hope to see the relationship between EBSA and the Journal continue to develop to mutual benefit, to encourage more submissions of highest quality papers from a wider constituency and to help promote the further devel-

opment of EBJ within a European and international arena. Already submissions from Asia, Australasia and the Americas are increasing, as is the participation of scientists from these countries at these congresses, so we are now becoming more international as time goes on. We have editors from all continents, to recognize this fact, and we encourage papers and submissions from everywhere. In addition, we are embracing new methods and approaches, in particular single molecule studies (somewhat emphasized at this congress), and all areas of bionanotechnology.

On a final personal note as chair of the scientific committee for the congress, I would like to acknowledge the enthusiasm and continued support of not only the EBSA Executive Committee, but also of the British Biophysical Society. I have tried to devolve the important decisions of topics and participation in those sessions to the individual chairs and co-chairs, and have attempted to take an even and democratic stance so as to reflect exactly what the community wants to hear about. I hope this has worked well, but without the support of the two groups behind me, this would have been much more of an onerous task, one which has actually been most enjoyable and rewarding, if not somewhat stressful at times of the various deadlines. I hope the programme and its content has something for everyone, and that one of the main reasons for such congresses, namely establishing new interactions, is fully grasped, in particular by the younger community.

*Anthony Watts*

*Managing Editor, EBJ*

*Chair, Scientific Committee*

## Some useful EBJ information

### *Handling times for papers*

The Oxford office is now averaging a time of 4–8 weeks between receipt of a paper and the first decision to an author about their paper for 85 % of all submitted papers (as a matter of course, every paper is acknowledged immediately upon receipt in the office). In addition, on receipt of corrected proofs by the publisher, the paper is published on the web (in On-Line First) within 10–21 days with a citable DOI (document identifier) number. Any further delays in publication are usually associated with seeking and receiving suitable reviewer comments, as well as authors' delays in revising papers in response to reviewers' comments.

### *Electronic submission*

From May 15 2003, all material (papers, letters, reviews, techniques) have been submitted electronically, by logging on to <http://ebj.manuscriptcentral.com/>. Reviewing and editorial work is performed from here, and authors can track their papers directly. In addition, the Journal is pleased to support the Congress by the publication of this volume of Abstracts, each section of which has been reviewed by the conference organisers.

### *Journal development and submission numbers*

The Editorial Board is making a special effort to increase the size of the Journal and its publishing frequency, by encouraging colleagues to submit their best work to the Journal in the form of EBJ Invited Reviews, original Research Articles, and as Biophysics Letters. The purpose of Biophysics Letters is to provide a means for the rapid publication of significant new findings and concepts in Biophysics, with accelerated publication available for work which is basically acceptable in the submitted form, and which meets the Journal's normal high standards of rigour and originality.

Over the last 3 years, we have seen a major growth in the number of submissions, more than doubling since October 2002 until now, with very significant numbers from the Pacific Rim and the Australian Biophysics Society, in particular. This upturn has resulted from, it is assumed, in the new interest in biophysics and the recent decisions to fund "interface" science at the boundaries of physics, biology and chemistry. In particular, we have seen a major influx of papers describing single molecule detection and bionanotechnology, areas we are pleased to support.

### *Reviews*

EBJ is currently soliciting short, well-balanced contemporary reviews covering any area of biophysics. The reviews editor is Gordon Roberts, who should be approached initially (through [ebj@bioch.ox.ac.uk](mailto:ebj@bioch.ox.ac.uk)) with suggestions and ideas for review topics and authors.

### *Special Issues*

On occasion, EBJ publishes Special issues, usually of about 10 papers or more each. These can either be themed in specific areas, or cover a major national biophysics conference or event. Potential special issue editors should contact the managing editor with a proposal well before the conference or event takes place. All articles are reviewed in the same way as for regular papers, and editors should be aware that papers are treated this way in order to maintain the quality of the Journal, and some papers may be rejected for publication after the review process.



## EBSA - the early days

It is more than 25 years since the stirrings of the movement which led to the establishment of the European Biophysical Societies' Association. Prior to that time, there had been one European Biophysics Congress in Baden (in 1971) on nuclear medicine and radiation oncology, co-sponsored by the Austrian Society for Biophysics and IUPAB, and published in the Verlag der Wiener Medizinischen Akademie. This event appears to predate the wider adoption of the newer developing areas of Biophysics with which we are nowadays familiar. By the end of the 70's decade, several specialist meetings had been held between the existing national Biophysical Societies on a range of molecular and structural subjects distinct from the medical physics disciplines. From one of these, a joint meeting of the Biophysical Societies of Belgium, Germany and the Netherlands, held in Aachen in October 1980, a proposition emerged to create a more formal and wider Federation or Association of related European Societies. As a result an invitation was issued by the German Biophysical Society for a preliminary meeting in Frankfurt in November 1981 that was attended by representative officers of the Belgian, British, Danish, German, Italian, Netherlands, Swedish and Swiss Biophysical Societies (or corresponding subgroups). The representatives were Drs. Clauwaert (B), Bayley (GB), Michelsen (DK), Kreutz (D), Müller-Broich, Chairman (D), Rüterjans (D), Strom (I), Versprille (NL), Greve (NL), Ehrenberg (S) and Wüthrich (CH). The concept of the European Biophysical Societies Association was unanimously confirmed and was duly accepted by the national Member Societies.

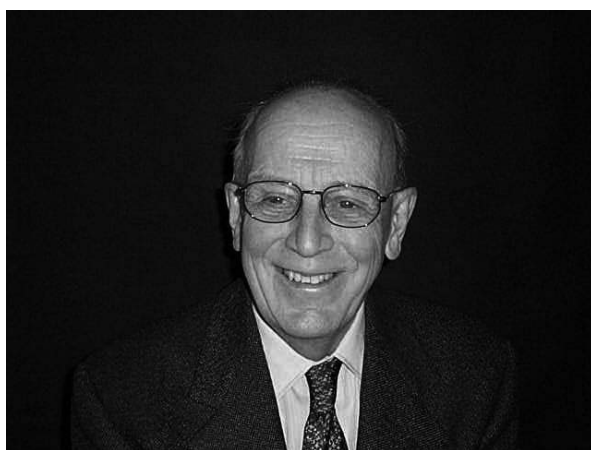
At the Frankfurt meeting, the future aims of the Association were agreed in outline, namely to promote scientific contacts and co-operation with the organisation of joint meetings, initially on specialised biophysical subjects, and with open access to members of all adhering Societies. The priorities were to establish a formal European body, eligible for financial and other support. The question of a Journal associated with EBSA was also proposed as an eventual objective. An acting Executive Committee was constituted under the presidency of Prof. Anders Ehrenberg (Stockholm) with Prof. W. Kreutz (Freiburg, Vice President), Dr Julius Clauwaert (Wilrijk, Secretary) and myself as mem-

bers. The task was to work towards the formal organisation of EBSA, to be confirmed during the IUPAB Congress in Bristol in July 1984, at the first meeting of the Council (or General Assembly) to which representatives of all the European societies would be invited.

The next years saw considerable co-operative activity between members Societies with many joint specialist meetings that were also publicised through the EBSA Newsletter. In addition, several pre-existing national groups were formalised, and new Biophysical Societies were created. EBSA also had an educational brief, and the Netherlands biophysical community led the way with the organisation of postgraduate Biophysics courses open to the community. Early 1984 saw the emergence of the European Biophysics Journal (EBJ) as a publication of Springer-Verlag, being the continuation of their journal *Biophysics of Structure and Mechanism*, of which Professor Hennig Stieve of Julich was the founding Editor. The new title of the journal was eventually adopted after some local difficulties due to the coincidence of the initials of the provisional name 'European Journal of Biophysics' (that had been mooted as early as 1980 in Aachen) with another Springer Verlag journal of the same EJB acronym. The issue was eventually settled in discussion with Professors Tom Goodwin and Prakash Datta representing FEBS and Gordon Roberts and myself representing the European Biophysics Journal, (EBJ). Over what became a memorably convivial lunch, the issues of identity and spheres of activity were amicably resolved. The new format of the EBJ appeared in mid-1984 published by Springer "in collaboration with the European Biophysical Societies' Association". For many years the Journal carried the 'EBSA Calendar of Events', compiled assiduously by Dr Clauwaert, who also produced the Newsletter on a regular basis. He was also a major contributor to the evolution of proposals for the EBSA Statutes, conceived, with the benefit of advice from officers of existing comparable supranational professional bodies to 'keep it simple', but with precision and flexibility. At times it seemed as though we were taking on a Herculean task equivalent to the foundation of an outpost of the European Community. Hopefully, we succeeded in keeping bureaucracy at bay. The EBSA logo dates from 1984, and in researching this article I found what appears to be the original 'doodle' for it, transformed into a thing of beauty by Stephen Martin, my long-term colleague who also provided assistance and outstanding support for the Journal throughout my time as its Managing Editor.

July 1984 also saw the 8th IUPAB Biophysics Congress in Bristol at which the EBSA General Assembly witnessed the attendance of 8 adhering member societies, with new applications from Israel and France, and observers from Bulgaria, Hungary, Norway, Poland, Romania, Spain, USSR and Yugoslavia., most of whom successfully joined EBSA soon afterwards. The acting group was confirmed to continue as the EBSA Executive Committee under the President and Vice-president. Both Prof Kreutz, and Prof Müller-Broich, two successive chairmen of the German Biophysical Society, made notable contributions in the earliest days, with their encouragement of the EBSA concept and with their assistance in ensuring its establishment.

The subsequent activities of the Association have involved the promotion of numerous EBSA Workshops and Meetings. Notable amongst these events was the First EBSA Workshop in 1986 at Saltsjöbaden near Stockholm. This was hosted by the Swedish Biophysical Society, under the chairmanship of Anders Ehrenberg, strongly supported by colleagues from the Karolinska Institute.. This meeting also had an unexpected or suspected external observer : an unidentified submarine was thought to be patrolling the adjacent waterway ; speculation grew that it was a delegation of Russian Biophysicists taking a short cut to the meeting. However, no international incident developed, thanks, not for the first time in EBSA affairs, to the exercise of Anders' calming influence and his dignified presence.



Anders Ehrenberg : First President of EBSA (1984) : a recent photograph, courtesy of colleagues at the Karolinska Institute, Stockholm.

This workshop also set the precedent of the appearance of reviewed papers from the meeting in the first volume of the ‘Springer Series in Biophysics’ entitled ‘Protein Structure, Dynamics and Function’. Other EBSA-supported workshops in the series were Vol 3 : ‘Cytoskeletal and extracellular proteins’, (Eds. J.Engel, U.Aebi) from the meeting in Gwatt in 1988, and Vol 7 : ‘Patterns in protein sequence and structure’ (Ed : W.R.Taylor) from an EBSA-EMBO meeting in Heidelberg in 1989. This series lapsed, but has recently been relaunched by the publishers in 2006.

The time up to the mid 1990’s was marked by a continuum of specialised meetings and workshops, largely at the initiative of the Member Societies, since at that stage, EBSA itself lacked any significant source of revenue or other financial support for promoting meetings. The period was marked by the EBSA General Assembly held at the IUPAB Congresses in Jerusalem (1987), Vancouver(1990), Budapest (1993) and Amsterdam(1996). A major change in the affairs of EBSA occurred as a result of discussions held in 1995 with the publishers, Springer Verlag, so that ownership of the European Biophysics Journal was initially shared jointly between the two parties, and reverted to EBSA in 2000. This required a full revision of the original Statutes, coincident with the setting up of EBSA as a UK Charity, with consequent financial advantages and responsibilities. Membership of the Executive Committee was expanded, and regular meetings instituted peripatetically in different countries : in London, the Novartis (CIBA) Foundation has become a frequent venue.

The ownership of the Journal has provided a continuing financial base for EBSA, allowing an expansion of activities, and the development of the Congresses. The first EBSA European Biophysics Congress in 1997 held in Orleans, and organised by the French Biophysical Society, with Paul Vigny as chairman, established the working principles of future Congresses. These determined that they should be funded jointly by EBSA and one of the Member Societies who would carry a large responsibility with EBSA representatives for planning, and by providing co-chairmen in all sessions, for the management and presentation of the scientific programme. Most important has been the principle to make the Congress as accessible as possible to younger scientists by way of limiting registration and boarding expenses where practical, and with the possibility of providing bursaries to enable students to be full participants. The EBSA General Assembly (comprising the representatives of the Member Societies), is now routinely held

during the Congress itself.

The further evolution of the Congress programme shows the strong support from individual Societies in taking on this organisational task. From 1997 to the present this has involved (in sequence) the French, German, Spanish, French (in collaboration with IUPAB) and British societies. EBSA has continued to grow steadily since its formal inception in 1984, and now has some 25 member societies (see [www.ebsa.org](http://www.ebsa.org)). It will be heading for the celebration of its 25<sup>th</sup> anniversary in 2009 at the 7<sup>th</sup> European Biophysics Congress in Genoa. This event will be organised by the Italian Society, and is keenly anticipated.



Three original EBSA Executive Committee members in London in 2002 (Heinz Rüterjans, Peter Bayley, Paul Vigny), planning the Munich congress. Photo courtesy of Laszlo Matyus, Secretary, 2001 - 2007.

It goes without saying that the developments outlined above reflect the commitment and determination of a large number of colleagues acting both for EBSA and for the European Biophysics Journal. I would most specifically like to recognise those who have served so valiantly on the successive EBSA Executive and EBJ Editorial Boards and Committees, as well as the previous Congress Chairmen. These individuals, and a huge number of their close colleagues, have succeeded in producing the EBSA European Biophysics Congress with consistent regularity since 1997. My personal thanks go to Anders Ehrenberg, Jürgen Engel, Rudolf Rigler, Julius Clauwaert, Erich Sackmann, Guiliano Colombetti, Philippe Devaux, Fritz Parak, Sandor Damjanovich, Paul Vigny, Heinz Rüterjans, Lennart Nilsson, Laszlo Matyus, Bernat Soria, Erick Dufourc and Michel Kochoyan for all they have contributed. And special thanks and appreciation to Manuel Cortijo, former President of EBSA 1993-96, for his unwavering leadership

and support through the uncertain but definitive months when the EBJ was seeking to become independent; also to the existing Executive Committee for their continuing commitment to EBSA, and to Tony Watts, my successor as Managing Editor of the EBJ who has brought the Journal into the electronic age with great verve and efficiency; and especially to Mike Ferenczi for his former key role as Treasurer of EBSA, acting with great competence to ensure the financial survival of EBSA through the all-important period of the Congresses since 1997. His enduring enthusiasm for the European concept, and his practical determination are perfectly characterised in bringing to full fruition this impressive 6<sup>th</sup> European Biophysics Congress at Imperial College, London. To all these, and many unmentioned here by name, my very grateful thanks for your support and friendship over the years in all these ventures, and likewise to everyone involved in contributing to the success of the present Congress.



EBSA Executive Committee in Pisa in 2005, hosted by Giuliano Colombetti in the Hotel Santa Croce convent, planning the London 2007 and Genoa 2009 congresses. Photo courtesy of Laszlo Matyus, Secretary, 2001 - 2007.

Biophysics, as its name indicates, is a wonderful and unique conjugation of diverse scientific subjects, often demanding in both its methods and materials, and hugely fertile in its impact in advancing human knowledge and practical applications. To those committed to seek a quantitative description and understanding of biological systems and their components, it is also extremely rewarding in practice. The advent of biotechnology, together with the recent development of nano-scale experimentation, is creating a remarkable scientific revolution. This promises an exciting future for the subject, to which, hopefully, a thriving EBSA will continue to make an enthusiastic and significant scientific contribution. I hope that this Congress will enable the personal contacts

and inspire the collaborations particularly amongst younger Biophysicists in order to provide impetus for such developments. And I offer my best wishes for the future growth and development of EBSA and its member Societies.

Finally, on a lighter note, reflecting the conviviality that has consistently perfused the activities of this Association throughout its existence: as well as being a hard discipline, Biophysics can also be great FUN, as demonstrated at the last Congress, with two of the Officers pictured in typical Gallic style.



Michel Kochoyan (Chairman) and Erick Dufourc (EBSA President) free-wheeling, post-reception, at the 5<sup>th</sup> Congress in Montpellier, 2005 (photo: pmb).

*Peter Bayley*  
*Managing Editor, European Biophysics Journal 1984-1999*  
*President of EBSA 1990-1993*  
*NIMR, London NW7 1AA, U.K.*  
*mailto:pbayley@nimr.mrc.ac.uk*

# Satellite Meetings

## **Neutrons in Biology**

Rutherford Appleton Laboratory, Oxfordshire, U.K., 11–13 July 2007.

Contact: Cameron Neylon (nib2007@rl.ac.uk)

## **Young Biophysicists Satellite Meeting**

Imperial College, London, U.K., 14 July 2007.

Contacts : Alison Rodger (a.rodger@warwick.ac.uk)

MOAC@warwick.ac.uk

## **Ion Channels**

Town Hall, Leeds, U.K., 13–14 July 2007.

Contact: Denis Wray (d.wray@leeds.ac.uk)

## **Visit to Diamond Synchrotron**

Chilton, Didcot, Oxfordshire, U.K., 19 July 2007.

Host : Professor Dame Louise Johnson

Contacts: Mike Ferenczi (m.ferenczi@imperial.ac.uk)

## **Computational Biophysics: linking experiment and theory**

Imperial College, London, U.K., 19 July 2007.

Organisers: Phil Williams

Charlie Laughton

Chris Grindon

Sarah Wilsey

Contact: Chris Grindon (chris@ccpb.ac.uk)





Congresses of the

## **EUROPEAN BIOPHYSICAL SOCIETIES' ASSOCIATION**

1<sup>st</sup> EUROPEAN BIOPHYSICS CONGRESS, 1971, BADEN, AUSTRIA  
2<sup>nd</sup> CONGRESS, 1997, ORLEANS, FRANCE  
3<sup>rd</sup> CONGRESS, 2000, MUNICH, GERMANY  
4<sup>th</sup> CONGRESS, 2003, ALICANTE, SPAIN  
5<sup>th</sup> EBSA / 15<sup>th</sup> IUPAB / SFB CONGRESS, 2005, MONTPELLIER, FRANCE  
6<sup>th</sup> CONGRESS, 2007, LONDON, UNITED KINGDOM

for your diary

## **7<sup>th</sup> CONGRESS, 2009, GENOA, ITALY**

**July 11 – July 15, 2009**

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8<sup>th</sup> congress will be in 2011 (see <http://www.ebsa.org/> for venue and dates)

# EBSA Bursaries

**Awarded to:**

Andrushchenko, Valery, *Czech Republic*  
Aranovich, Alexander, *Israel*  
Ayvazian, Naira, *Armenia*  
Bensikaddour, Hayet, *Belgium*  
Bogdan, Diana, *Romania*  
Borowik, Tomasz, *Poland*  
Brazhe, Alexey, *Russian Federation*  
Brazhe, Nadezda, *Russian Federation*  
Capitanio, Marco, *Italy*  
Certal, Ana Catarina, *Portugal*  
de Luchi, Daniela, *Spain*  
Deghoyan, Anush, *Armenia*  
Dubrovin, Evgeniy, *Russian Federation*  
Finogenova, Olga, *Russian Federation*  
Flicker, Karlheinz, *Austria*  
Gilead, Sharon, *Italy*  
Golovkin, Michael, *Russian Federation*  
Graczer, Eva, *Hungary*  
Henriques, Sonia, *Portugal*  
Herrera, Elena, *Spain*  
Iftime, Adrian, *Romania*  
Ioffe, Valeriya, *Ukraine*  
Isvoran, Adriana, *Romania*  
Karachevtsev, Maksym, *Ukraine*  
Kopach, Olya, *Ukraine*  
Korkutan, Selma, *Turkey*  
Krupenina, Natalia, *Russian Federation*  
Minakova, Jane, *Ukraine*  
Miszta, Adam, *Czech Republic*  
Moisescu, Mihaela, *Romania*  
Nikolova, Biliana, *Bulgaria*  
Polyanichko, Alexander, *Russian Federation*  
Rodionova, Natalia, *Russian Federation*  
Shvorina, Lena, *Russian Federation*  
Sokolenko, Elena, *Russian Federation*  
Tourleigh, Yegor, *Russian Federation*  
Trchounian, Armen, *Armenia*  
Zamaraeva, Maria, *Poland*