



# BBS NEWS

## The British Biophysical Society Newsletter



July 2004

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Welcome to the summer edition of the newsletter. It is a busy time at the BBS. Our deadline for the BBS Medal is almost upon us, so please see page 3 for details and submit your nominations to the Chairman as soon as possible. There are also a number of BBS meetings coming up and the Committee have raised the limit of funding available for bursaries to encourage more students to attend. See page 3 for more information and page 9 for the meetings list.

The BBS Committee has become increasingly aware that applying for funding in biophysical research has become more difficult, as our interdisciplinary nature often means it is hard to find the most suitable funding body or subsection with which to apply for grants. We are campaigning on your behalf to raise these issues with the funding bodies and welcome questions from members that we can submit as part of this campaign. Please send your comments to the BBS electronically at [bbs@bbk.ac.uk](mailto:bbs@bbk.ac.uk) or in writing to any member of the Committee, whose contact details can be found on the last pages of this newsletter.

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*Please remember that we always like to hear from you, whether you've found an error or something you've liked. Please email the BBS at [bbs@bbk.ac.uk](mailto:bbs@bbk.ac.uk).*

## **BBS Main Meetings**

The main meetings are generally held over a two day period. The BBS would be interested to hear from other societies with a view to holding joint meetings. Please contact [the Secretary](#) or [the Chairman](#) in the first instance.

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## **BBS One Day Discussion Meetings**

These provide a forum for relatively informal meetings that can be held outside the normal meetings schedule of the BBS. They would be particularly appropriate for "minority interests" that might otherwise not be covered in a full meeting.

The BBS are keen to promote and provide some sponsorship for these meetings although they are expected to be largely self-financing. Rapid decisions can be made about BBS support.

The BBS committee invites members who wish to organise these meetings to propose topics to the [Meetings Secretary](#),

[Dr. G Grant](#), *Department of Chemistry, New Chemistry Laboratory, South Parks Road, Oxford OX1 3QT.*

Tel: +44 1865 275 932; Fax: +44 1865 275 905; E-mail: [guy.grant@chem.ox.ac.uk](mailto:guy.grant@chem.ox.ac.uk)

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## **BBS Lectures**

The British Biophysical Society offers sums of up to £100 to relevant student societies to organise British Biophysical Society Lectures. These are intended to enable student Biophysics/Biochemistry/Physiology/Chemistry/Physics societies to invite speakers on a biophysical theme. Enquiries and applications, together with the name of the proposed speaker, title of the lecture and a justification of the amount requested should be sent to the [Secretary](#),

**Dr Rob Cooke**, *GlaxoSmithKline, New Frontiers Science Park, Third Avenue, Harlow, Essex, CM19 5AW.*

Tel: 01279 627981 ; Fax: 01279 622790 ; E-mail: [Rob\\_M\\_Cooke@gsk.com](mailto:Rob_M_Cooke@gsk.com)

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## **BBS Bursaries**

BBS Bursaries are often available to help with the cost of travel, accommodation and registration for younger BBS members (undergraduate/postgraduate/first three years postdoc) to attend meetings associated with BBS. These will be given on a first-come first-served basis, with the amount depending on the price and duration of the meeting and the distance to be travelled, up to a limit of £200. Bursaries will be mentioned on the registration form for the meeting if available, and the signature of a supervisor will be required.

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## **BBS WWW site**

The BBS WWW site is at <http://www.cryst.bbk.ac.uk/BBS/bbs.html>.

## The British Biophysical Society Young Investigators Award 2004 - Apply Now!

The BBS Awards Committee is seeking nominations for the the British Biophysical Society Young Investigators Award 2004. The Medal will be awarded every two years for an outstanding contribution in any area of biophysics and the winner will receive a prize of £1000. The award winner will present a lecture at a BBS meeting within a year of receiving the award, with the BBS covering travel and subsistence costs for the meeting. This lecture will be published on the web site and in the newsletter. To be eligible for the award nominees must:

- normally be under the age of 35 on the 1st January 2004, although researchers returning to biophysics after a break will be considered
- be currently resident in the UK or Ireland
- have worked in the UK or Ireland in the last 5 years - the country of birth will not be considered

Nominations for the BBS Medal must be made by a member of the BBS to the [Chairman](#) by the 31st July 2004, and include the following:

- a letter from the nominator which summarises the nominee's principle achievements and clearly describes the context in which these meet the criteria for the award
- the nominees' current CV and list of publications, highlighting the 5 most significant
- at least two supporting letters from eminent colleagues describing the area of work undertaken and highlighting the nominees' achievements in relation to the criterion

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### Student Bursaries Raised

The BBS is keen to encourage our members to have more access to biophysics. BBS Bursaries cover travel, accomodation and registration to meetings associated with the BBS for undergraduate and postgraduate students and post-docs in their first three years. The BBS Committee have now raised the limit of these buraries to £200.

Bursary applications can be submitted for all meetings that the BBS are involved in organising and details of such meetings can be found in the newsletter (page 9 of this issue) and on the web site ([forthcoming BBS meetings](#)). Please check the web page regularly for updates of meetings. If you are more interested in something closer to home, the BBS can fund Biophysics Lectures held by student societies at their institution. For information on how to apply for both these sources of funding, see page 2 of this newsletter.

## Meet the Committee: Elizabeth Hounsell

In this issue Elizabeth Hounsell has kindly written about her career and how she has progressed to her current position as the Head of the School of Biological and Chemical Sciences at Birkbeck, University of London.

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The first science book I bought (at the tender age of 13, if I remember right) was a slim red volume "Introduction to Biophysics". This suggests that biophysics may have been more on the map in Universities then than it is now, but hopefully the BBS is succeeding in its present promotion. At the time of the book-buying I was attending a Grammar school - a term now as little known as biophysics, perhaps. Chemistry throughout my schooling was taught formally, almost by rote, but between 'O' and 'A' levels I was invited to sample the then new Nuffield approach. I remain eternally grateful for my 'strict' chemistry upbringing; it has served me well over the years, first studying for biochemistry degree with a strong chemical basis in the School of Molecular Sciences at Sussex and then a synthetic chemistry-based research project for my PhD at Imperial Cancer Research Fund, Lincoln's Inn Fields (now part of Cancer Research UK). I was registered for the latter at Queen Elizabeth College, London University. Sadly now the School at Sussex, ICRF and QEC are all things of the past. However, Biochemistry and Chemistry are still going strong at UCL and Birkbeck where I re-entered academia from 1994 and 1999, respectively. In the mean time I spent a large part of my life working for the Medical Research Council at their Clinical Research Centre (CRC at Northwick Park Hospital, Harrow).



During my PhD I first encountered NMR (yes, a 60MHz!). I also carried out some of the first studies on MS of oligosaccharides at QEC. These analytical methods took my fancy (synthesis being too hard?) so my studies on the role of protein glycosylation in tumour cells and of gastrointestinal mucins (my claim to immortal scientific fame being the discovery of different core oligosaccharide-protein regions of O-linked glycosylation) continued in analysis, immunology (in particular AIDS research) and, more recently, protein folding disorders (amyloidosis, prions, O- and N-linked chains of proteins). NMR really came of age in my studies with the arrival of the 400MHz at the National Institute of Medical Research, Mill Hill (the MRC NMR Centre) where Jim Feeney guided me through some of the darker arts of biomedical NMR. I was at this time introduced to the BBS by being asked to co-organise a conference on computer graphics of protein glycosylation, my work having encompassed from its beginnings computer graphics interpretation of NMR data, and I joined the Institute of Physics (IoP) after giving a talk on (glyco)protein folding in their celebration year, 1998. (The BBS have now adopted the model of the IoP to follow up on attendance at conferences with a direct debit form to continue to expand numbers and increase awareness.) I am also a fellow of the Royal Society of Chemistry and member of the British Society of Immunology, the Biochemical Society and the Medical Research Society, but of all the involvement in these societies I most enjoy reading the Journal of the IoP, Physics World - highly recommended. I also represent the BBS on the UK Life Sciences Federation. Thus my interests bring together analytical science and biomedicine, the interface of which is represented most succinctly by biophysics, although I am sure I didn't know that at 13 years of age. Another aspect that has stayed with me from my days at ICRF is the importance and diversity of protein glycosylation in biomedicine which has given me a very rewarding research career reaching its pinnacle this year as Chair of the International Carbohydrate Symposium (July 23rd to 27th, SECC Glasgow, also highly recommended) and being president elect of the International Carbohydrate Organisation, a post previously held in the UK once in 1978, coincidentally by the then Head of Chemistry at Birkbeck, George Overend.

## BBS Annual General Meeting

The BBS AGM was held during the Nacon VI meeting in Sheffield on the 5th April. The AGM was convened at 2-00 pm, but was not quorate. In accordance with the rules of the society the meeting was delayed for 15 minutes and then proceeded with those members present. The first business was the approval of the minutes from the BBS AGM held in April 2003. Reports were submitted by the Chairman and Secretary. The Treasurer's Report was submitted and the audited accounts were presented. The next piece of business was the election of Honorary members. Louise Johnson and David Trentham were proposed and duly elected (see below). There was no need to elect new officers for the Committee as these posts remain the same. Finally, there was no other business and the meeting was quickly drawn to a close.

As soon as the date for the next AGM is settled it will be reported in this newsletter. The BBS aims to arrange for the AGM to take place at a BBS meeting where hopefully there will be members of the society attending. Please come along and let us know your thoughts!

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## Election of Honorary Members

The BBS is pleased to announce that Louise Johnson and David Trentham have been elected as Honorary Members. Honorary members of the BBS are persons of distinction in science who have contributed to the advancement of biophysics. They do not pay the BBS subscription, but have the voting rights of ordinary members. Honorary members are recommended for election by the BBS committee, who always welcome suggestions.

### **Louise Napier Johnson**

For a long time there was only one text book to have if you wanted to learn protein crystallography. Blundell and Johnson's volume of the same name enjoyed many years as the definitive text on the subject. It is hard to believe therefore, that when Nature interviewed Louise Johnson on her appointment as Life Sciences Director for the new Diamond Light Source in 2004, she described how, as a student, she didn't feel that she could make a contribution in physics.

After her undergraduate years at University College London, she moved to the Royal Institution (RI) in 1962 where she obtained her PhD. At this time the RI was a hive of crystallographic activity. Sir Lawrence Bragg, the Director, had enticed several well known crystallographers to the RI to set up a protein crystallography lab. In 1965 David Phillips, Tony North, Colin Blake and colleagues solved the structure of lysozyme to 2Å, building on work by Roberto Poljak. As the first enzyme structure solved, and only the second protein, this work was highly exciting for the field. Yet more was to come. Johnson then solved the structure of lysozyme with two inhibitors, N-acetylglucosamine and tri-N-acetylglucosamine, and it was the combined efforts of this team that led to an understanding of enzyme mechanism. A short spell as a postdoc in the Biophysics Department at Yale was followed by a move to Oxford, where she was a lecturer in biophysics until 1990. For a while Johnson held the record for the largest protein structure solved (glycogen phosphorylase) and became involved in projects that examined how molecules are controlled in biological systems, still a theme of her research today. Still at Oxford today, she is the David Phillips Professor of Molecular Biophysics and her research focuses on the regulatory proteins of the cell cycle. And while crystallography is still the main technique used in her group, it is often complemented by other biochemical and biophysical techniques. She now splits her time between her research at Oxford and her Directorship at Diamond. In 1990 Johnson was elected as a FRS and last year she was recognised in the New Years Honours List for her services to biophysics and was made a Dame Commander of the Order of the British Empire.

## Election of Honorary Members (cont.)

### David Rostron Trentham

While David Trentham is widely acknowledged as an expert in muscle biophysics, his contribution to the field has also been in the development of techniques that have pushed the boundaries. Trained as a chemist at the University of Cambridge, the synthesis of novel biological compounds has been a common theme in his research. In his early days at the University of Bristol he used transient kinetic techniques to study elementary processes in catalysis of several enzymes in solution, particularly glyceraldehyde-3-phosphate dehydrogenase, and it was during this time that he developed methods using oxygen isotopes that have become an invaluable tool for enzyme mechanistic studies.

In 1977 Trentham moved to the University of Pennsylvania as the Edwin Chance Professor of Biochemistry and Biophysics, where he was to develop his work on the ATP mechanisms of myosin and actomyosin that he started at Bristol. At the time muscle experiments were limited by the diffusion of ATP through the muscle fibre, but Trentham developed a technique of rapid ATP generation within muscle fibres that meant for the first time biochemical and physiological measurements could be measured on the millisecond time scale. In 1984 he moved to the National Institute for Medical Research at Mill Hill where he took up the position of Head of the Division of Physical Biochemistry. He continued his research on the molecular basis of muscle contraction, including the use of new methods to look at protein domain movements in their natural environment. Simultaneously he applied his expertise in photolabile compounds to the study of other biologically important molecules.

In 2003 Trentham retired from the NIMR, and his contribution to biophysics was celebrated with a BBS scientific meeting held in London on the 'Mechanisms of Movement in Cells and Muscle'. David Trentham was awarded the Biochemical Society Colworth Medal in 1975 and elected as a FRS in 1982.

*(Adapted from the EBSA website)*

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## Honorary Members

R D Preston (1981) *	AF Huxley (1992)	J Walker (1999)
J Randall (1981) *	HE Huxley (1992)	P.Harrison (2000)
J Kendrew (1982) *	A Klug (1992)	R. Simmons (2000)
M Perutz (1982) *	R Pain (1992)	K Holmes (2001)
DD Eley (1982)	D Phillips (1992) *	D Blow (2001) *
RD Keynes (1988)	P Walker (1992)	S Brenner (2003)
Lord Adrian (1992) *	DR Wilkie (1992) *	R Henderson (2003)
E R Andrew (1992) *	M Wilkins (1992)	O Kennard (2003)
HF Gutfreund (1992)	RJP Williams (1992)	L Johnson (2004)
AL Hodgkin (1992) *	ACT North (1999)	D Trentham (2004)

\*These honorary members are sadly deceased

## Changes in the BBS Committee

We are sad to announce that Steve Harding is stepping down from his position on the Committee. Steve is one of the longest serving members of the Committee, having been involved for 11 years, and at one stage held the office of Honorary Meetings Secretary. A loyal member of the BBS, Steve has always been an active member of the Committee and has organised meetings for the BBS on topics such as 'The Solvation/Hydration Problem in Solution Biophysics' (2000) and 'Intermolecular Associations in 2D and 3D' (2003). We would like to thank Steve for all his work over the years and wish him all the best in the future.

Full details of the Committee can be found on pages 15 and 16 of this newsletter.

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## Obituary: David Blow

The BBS are saddened to announce that David Blow died in June aged 72. David was elected as an honorary member of the BBS in 2001 for his outstanding work in protein crystallography. The following has been taken from the obituaries written by Michael Rossmann and Guy Dodson that appeared in the Guardian on the 25th June. The full article can be found at: <http://www.guardian.co.uk/obituaries/story/0,3604,1246945,00.html>

"When he[David] returned to Cambridge in 1959 - at Perutz's invitation - he was given desk space in the same small room that I was already sharing with two other visitors, so, whenever David or I sat down, we invariably bumped into each other. We quickly established a close friendship and intellectual collaboration. Over the next five years, we wrote a series of papers together which were to form the rudiments of much of protein crystallography, though we had little idea of the developments that would take off with exponential growth in the mid-1980s. It was David's initiative to study chymotrypsin, a digestive enzyme. For a number of years, we did this work together, solving many of the technical problems that led to later success. That work came to fruition with a paper in Nature in 1964, two years after I left Cambridge for America. In the world of biology, David is probably best known for his contribution to the discovery of the catalytic mechanism of serine proteases, of which chymotrypsin is an example."

*Michael Rossmann*

"David Blow was a kind and unpretentious person who accomplished a great deal, never sought recognition of his own achievements, yet ensured that his colleagues received their proper credit. He was a hugely admired and influential member of the community of structural biologists. His development of the rotation and translation functions, or molecular replacement, in a remarkably happy - and brilliantly effective - collaboration with Michael Rossmann, was a major conceptual advance in crystallographic thinking. Integrity and moral clarity were among his most admirable qualities, and his advice was freely given and invariably to the point. He brought fun to crystallography - for example, the model he and Rossmann used to illustrate the arrangement of molecules in a crystal consisted of 16 baby shoes, all tiny, left-footed and the same size, the purchase of which required a resolutely straight face."

*Guy Dodson*

## Biofizz

*BioFizz takes a brief look at matters biophysical. If anything catches your eye that you think would interest other biophysicists, please email [bbs@mail.cryst.bbk.ac.uk](mailto:bbs@mail.cryst.bbk.ac.uk).*

### **Carl-Ivar Brändén (1934-2004)**

We are sad to see that Carl-Ivar Brändén died in April. Over the years his work focused on the structure-function relationships of the enzymes alcohol dehydrogenase and Rubisco, and the determination of the structures for both these proteins led to greater understanding of their respective mechanisms. Brändén also spent much of his time searching for general principles of protein structures, and he was engaged in this sort of bioinformatics in his last years at the Karolinska Institute in Sweden. Indeed, for the majority of younger biophysicists he is probably best known for the popular textbook that he co-authored with John Tooze, "Introduction to Protein Structure". As well as his research interests though, Brändén was involved in science policy. He served on many scientific advisory committees, and sat on the editorial boards for several journals including the Quarterly Review of Biophysics. In 1993 he started the journal Structure with Wayne Hendrickson. He will be sorely missed by his friends and colleagues.

### **Scientific Publications: Free for all?**

On a more general note, the publication this month of the Government's Science and Technology Select Committee report on the issues of scientific publication could affect all scientists. While research output is increasing and the prices of scientific journals are going up, the budgets for libraries are on the decline. There are several issues here. One is that it can simply be difficult for researchers to obtain articles that relate to their own field of expertise. Another is that the Government has an interest in ensuring that the public money invested in scientific research results in some form that benefits the public. Yet, according to the report, the profit margins of the scientific, technical and medical publishers remain remarkably high in comparison to the rest of the publishing industry and that there is a concern that the financial benefits from the Governments' investment end up in the pockets of the publishers' shareholders. One solution to the problem is Open Access - that the published output of scientific research should be available without charge to everyone. This report covers many of the issues, and recommends urgent intervention by the Government. The recommendations include: that all UK higher education institutions establish institutional repositories on which their published output is stored and from which it can be read online, free of charge; that Research Councils and Government funders make it mandatory that their funded researchers deposit a copy of their articles in this way. The report emphasises though that this is only a short term solution and that there might be a case for introducing author-pays publishing as a method of Open Access. This operates as it sounds: the author or their research funder pays to publish their article in a journal. The articles are still peer reviewed and selected for publication as in the current procedure. However the journal is then distributed free of charge, primarily on the internet, or sometimes in paper form. So we may well be seeing a shake-up of the whole publication procedure in the not so far distant future. The full report can be found on the Government's website:

<http://www.publications.parliament.uk/pa/cm200304/cmselect/cmsctech/399/39902.htm>

### **SeeingScience**

The Council for the Central Laboratory of the Research Councils (CCLRC) have just launched a teaching resource aimed at children between the ages of 11-14 (Key Stage 3). The website, which includes lesson plans, is divided into sections including those of Life and Light. This later section focuses on how a synchrotron works and how it can be used as a tool for a variety of science. Visit <http://www.seeingscience.cclrc.ac.uk/Home/> for more information and a free CD-ROM.

## BBS Meetings

### ● Applications of BioCalorimetry (ABC IV)

**Date:** 31 August - 3 September, 2004

**Venue:** Budapest, Hungary

**Organised by:** John Ladbury

**WWW:** <http://www.microcalorimetry.com/abc4>

### ● Biophysical Chemistry 2004: Ligand-Protein Interactions

**Date:** 6-8 September 2004

**Venue:** Edinburgh, Scotland

**Hosts:** BBS and RSC

**Organisers:** Malcolm Walkinshaw

**WWW:** <http://www.icmb.ed.ac.uk/biophyschemconf/>

### ● Recent Advances and Applications of Solid-State NMR: from Superconducting Physics to Molecular Biology

**Date:** 14-15 September, 2004

**Venue:** Warwick, UK

**Organised by:** Solid State NMR Group

**WWW:** <http://www.phys.warwick.ac.uk/nmr/conference.html>

**BBS Sponsored Lecture:** Hartmut Oschkinat, FMP, Berlin, Germany

### ● Enzymology and Protein Science: A symposium to mark the retirement of Prof. Richard Perham FRS

**Date:** 30 September, 2004

**Venue:** Cambridge, UK

**Organised by:** Alan Berry and Florian Hollfeder

**WWW:** [http://www.bioc.cam.ac.uk/perham\\_symp/index.html](http://www.bioc.cam.ac.uk/perham_symp/index.html)

**BBS Sponsored Lecture:** Prof. Stan Oppella, University of California, San Diego, USA

### ● Protein Dynamics and Function- Methods and Results

**Date:** 4-6 January 2005

**Venue:** University of Leicester, UK

**Hosts:** BBS, Inorganic Biochemistry Discussion Group & RSC Peptide and Protein Group

**Organisers:** Emma Raven, Nigel Scrutton & Gordon Roberts

**WWW:** <http://www.ibdg.org.uk/>

## Other Biophysics Meetings

### [The 5th International Conference on Biological Physics](#)

**Date:** 23-27 August, 2004

**Venue:** Gothenburg, Sweden

**Organised by:** IUPAP, Swedish Physical Society (Section for Biological Physics), IUPAB, European Physical Society (Division of Living Systems)

**WWW:** <http://fy.chalmers.se/icbp2004/>

### [7th European Biological Inorganic Chemistry Conference \(Eurobic7\)](#)

**Date:** 29 August - 2 September, 2004

**Venue:** Garmisch- Partenkirchen, Germany

**Organised by:**

**WWW:** <http://www.uni-dortmund.de/eurobic7/index.htm>

### [Genomes to Systems](#)

**Date:** 1-3 September, 2004

**Venue:** Manchester, UK

**Organised by:** The Consortium for Post-Genome Science

**WWW:** [http://www.postgenomeconsortium.com/conference\\_2004/index.html](http://www.postgenomeconsortium.com/conference_2004/index.html)

### [Developing Concepts for Systems Biology](#)

**Date:** 3-6 September, 2004

**Venue:** St Hugh's College, Oxford, UK

**Organised by:** The International Study Group for BioThermoKinetics

**WWW:** <http://mudshark.brookes.ac.uk/BTK>

### [5th New England Biolabs Meeting on Restriction/Modification](#)

**Date:** 4- 8 September, 2004

**Venue:** Bristol, UK

**Organised by:** B. Connolly, M. Szczelkun, D. Dryden

**WWW:** <http://www.bch.bris.ac.uk/staff/szcz/RM2004.html>

### [Membrane Transport Proteins](#)

**Date:** 3-8 October, 2004

**Venue:** Les Diablerets, Switzerland

**Organised by:** GRC

**WWW:** <http://www.grc.uri.edu/04sched.htm>

### [Congress on Peptide-Membrane Interactions](#)

**Date:** 9-12 October, 2004

**Venue:** Belgium

**Organised by:** Centre de Biophysique Moléculaire Numérique

**WWW:** <http://www.fsagx.ac.be/bp/congress.htm>

## Other Biophysics Meetings cont.

### [BioDigital 2004](#)

**Date:** 13-15 October, 2004

**Venue:** Freiberg, Germany

**Organised by:** IBC Life Sciences & Messe Freiburg GmbH & Co. KG

**WWW:** <http://www.biodigital.de/>

### [NanoMed 2004: 4th International Workshop on Biomedical Applications of Nanotechnology](#)

**Date:** 14-15 October, 2004

**Venue:** Berlin, Germany

**Organised by:**

**WWW:** <http://www.cc-nanochem.de/Aktuell.htm>

### [Functional Genomics: Exploring the Edges of Omics](#)

**Date:** 16-19 October, 2004

**Venue:** EMBL-Heidelberg, Germany

**Organised by:** EMBL/EMBO

**WWW:** <http://www.embl.de/conferences/Omics04/>

### [EMBO Practical Course on Solution Scattering from Biological Macromolecules](#)

**Date:** 29 October - 5 November, 2004

**Venue:** EMBL Hamburg Outstation

**Organised by:** D. Svergun and R. Willumeit

**WWW:** <http://www.embl-hamburg.de/workshops/2004/embl>

### [3rd Portuguese-Spanish Biophysics Congress](#)

**Date:** 29 October - 1 November, 2004

**Venue:** Lisbon, Portugal

**Organised by:** Portuguese Biophysical Society and Spanish Biophysical Society

**WWW:** [http://www.itqb.unl.pt/congress\\_biophysics/](http://www.itqb.unl.pt/congress_biophysics/)

### [EMBO Conference on Structures in Biology](#)

**Date:** 10-13 November, 2004

**Venue:** EMBL-Heidelberg, Germany

**Organised by:** EMBO

**WWW:** <http://www.embl-heidelberg.de/conferences/StructBiol04/>

### [1st International Conference on Environmental, Industrial and Applied Microbiology \(BioMicroWorld 2004\)](#)

**Date:** 13-16 December, 2004

**Venue:** Badajoz, Spain

**Organised by:** A. Mendez-Vilas (chairman)

**WWW:** <http://www.formatex.org/biomicroworld2004/index.htm>

## **Other Biophysics Meetings Cont.**

### [Regional Biophysics Meeting 2005](#)

**Date:** 16-20 March, 2005

**Venue:** Terme Zreče, Slovenia

**Organised by:** Slovenian Biophysical Society

**WWW:** <http://www.drustvo-biofizikov.si/biophysics2005/>

### Molecular Pharmacology

**Date:** 8-13 May, 2005

**Venue:** Il Ciocco

**Organised by:** Gordon Research Conferences

**WWW:** <http://www.grc.uri.edu/05sched.htm>

### [Viruses and Cells](#)

**Date:** 15-20 May, 2005

**Venue:** Il Ciocco

**Organised by:** Gordon Research Conferences

**WWW:** <http://www.grc.uri.edu/programs/2005/viruses.htm>

### [Evolving Methods in Macromolecular Crystallography](#)

**Date:** 19-25 May, 2005

**Venue:** Erice, Italy

**Organised by:** Director: R. Read

**WWW:** <http://www.crystalice.org/2005.htm>

### [Biophysical Chemistry Meets Molecular Medicine](#)

**Date:** 1-4 June, 2005

**Venue:** Sesimbra Beach, Portugal

**Organised by:** Miguel Castanho, on behalf of CERC3

**WWW:** <http://www.ycw.fc.ul.pt/>

### [The Protein World. Proteins and Peptides: Structure, Function and Organization](#)

**Date:** 2-7 July, 2005

**Venue:** Budapest, Hungary

**Organised by:** FEBS and IUBMB

**WWW:** <http://www.febs-iubmb-2005.com/>

### [Molybdenum and Tungsten Enzymes](#)

**Date:** 10-15 July, 2005

**Venue:** Queen's College, Oxford, UK

**Organised by:** Gordon Research Conferences

**WWW:** <http://www.grc.uri.edu/programs/2005/molyb.htm>

## Other Biophysics Meetings Cont.

● **Immunochemistry and Immunobiology**

**Date:** 7-12 August, 2005

**Venue:** Queen's College, Oxford

**Organised by:** Gordon Research Conferences

**WWW:** <http://www.grc.uri.edu/05sched.htm>

● **60th Harden Conference: Inositol Phosphates and Lipids - Regulation and Functions**

**Date:** 13-19 August, 2005

**Venue:** Ambleside, Lake District

**Organised by:** Biochemical Society

**WWW:** <http://www.biochemistry.org/meetings/programme.cfm?meetno=H60>

● **XX Congress of the International Union of Crystallography**

**Date:** 23-31 August, 2005

**Venue:** Florence, Italy

**Organised by:** IUCr

**WWW:** <http://www.iucr2005.it/>

● **15th International Biophysics Congress (IUPAB) & 5th European Congress of Biophysics (EBSA)**

**Date:** 27 August - 1 September, 2005

**Venue:** Montpellier, France

**Organised by:** EBSA & IUPAB

**WWW:** <http://www.iupab.org/>

● **11th Congress of the European Society for Photobiology (ESP)**

**Date:** 3-8 September, 2005

**Venue:** Aix Les Bains, France

**Organised by:** ESP

**WWW:** [http://www.pol-us.net/ESP\\_Home/Congresses/2005-aix](http://www.pol-us.net/ESP_Home/Congresses/2005-aix)

● **The Structure and Function of Large Molecular Assemblies**

**Date:** 9-18 June, 2006

**Venue:** Erice, Italy

**Organised by:** Director: M. Rossmann

**WWW:** <http://www.crystalerice.org/2006.htm>

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