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# EBBS NEWSLETTER

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N°. 35, May, 2003

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## Note from the President

Our Society, the oldest society in the world interested in the question of Brain and Behaviour, celebrates its 35th birthday this year. In the early days, the major mission of EBBS was to promote contact and interaction among European scientists with a common interest in the study of brain mechanisms of behaviour. The early annual meetings played a very important role in bringing together investigators, young and old, for interdisciplinary exchanges long before it was 'de rigueur' and required by granting agencies.

With the proliferation of National and International Neuroscience Societies, along with more and more special interest societies, one might question the need for continued support for this old club. I see the role of our organisation changing as Neuroscience develops and becomes, itself, more cross disciplinary. Our Society should act as a strong lobbying group for maintaining and developing excellence in the field of behaviour within the context of a broad Neuroscience programme.

To achieve this our Society will continue to organise high profile, high quality meetings, as we have this year for Barcelona. We hope to continue to sponsor excellent speakers at the FENS meeting and to organise events within other large meetings, such as the highly successful debate we held at the Society for Neuroscience meeting in 2001. EBBS members are active in organisation of FENS activities, particularly concerning the FENS schools. We hope to be able to sponsor joint schools with FENS in the future. IBRO has intensified its efforts in

the field of education and training with a focus on using internet technology. They are particularly interested in developing training programmes in behavioural analyses and have asked me for help from EBBS members.

So EBBS, in collaboration with larger organisations such as society for Neuroscience, FENS and IBRO can play an important role in maintaining high standards in the field of behavioural neuroscience, particularly through the training of young investigators coming from molecular and cellular backgrounds. If you are willing to organise a training workshop, a school or a satellite event within a larger meeting on a topic of interest to EBBS, or participate in the IBRO educational initiatives, don't hesitate to contact me or any committee member for further information.

## CONTENTS OF THIS ISSUE:

Note from the President	p. 1
Minutes of the Paris AGM	p. 2
35 <sup>th</sup> EBBS Meeting in Barcelona	p. 3
EBBS Meeting in La Londe	p. 4
Nominations and Elections	p. 5
The European Diploma in Brain and Cognitive Neuroscience	p. 6
News from the membership	p. 10
Coming events	p. 11
EBBS deadlines	p. 11

With all these projects, now more than ever we need your support for a strong, dynamic European Brain and Behaviour Society. Please urge your colleagues and students to show their support as well, by becoming members of EBBS.

As a final note, I would like to congratulate Martine Ammassari-Teule on her election as Secretary. We are most fortunate to have a such enthusiastic and efficient person to perform this very difficult task

## **Minutes of the Paris 2002 Business Meeting**

The President welcomes the 18 members present. He briefly summarises the activities promoted by EBBS during this year (AGM in Marseille in joint meeting with EBPS, dinner debate in San Diego, elections). He announces the results of the postal ballot (Cttee members elected: J. Aggleton, L. Chelazzi, J. Huston, V. Brown; secretary elected: M. Ammassari-Teule) and welcomes the new officer J. Aggleton present at the meeting. He also thanks H.O. Karnath, M. Oitzl, A. Roberts and C. Sandi whose terms are ended, for their dedicated and enthusiastic commitment during the last three years.

The President reminds members that his mandate is expiring too and, before leaving his office, he wishes to thank all the colleagues for the help and co-operation given during this period.

On the behalf of the Cttee, the treasurer Albert Gramsbergen thanks Wolfram Schultz for serving the society first as Cttee member then as President. He recalls the fruitful work done at the Cttee and congratulates him on the achievements and results.

Carmen Sandi reports on progress of the Barcelona AGM. She mentions that the LOC is now fully operating and invites everybody to visit regularly the website

especially designed for the Conference (<http://www.uab.es/ebbs-2003>).

Joachim Fuster is unanimously elected Honorary Member. He will be installed in his membership during the Barcelona AGM.

The Secretary, Martine Ammassari-Teule invites the participants to reflect on new candidatures as two Cttee members (Anna Grabowska and Catherine Thinus-Blanc) will step down next year. Proposals can be sent at the e-mail address of the EBBS secretariat. She also launches a call for bids for AGM 2005.

The treasurer Albert Gramsbergen reports on the membership and financial situation. A copy of the treasurer's report is attached. He re-iterates that, at present, the income resulting from membership is less than last year.

Pascale Gisquet-Verrier reports on the EBBS "dinner debate" (turned into a "debate around the drink") in San Diego. In spite of initial difficulties in contacting the local infrastructure, this event has been a success. All the announced scientists attended the debate that, in the whole, gathered more than 100 participants. Malgorza Kossuth confirms the importance of replicating this type of event to raise the international profile of EBBS. Pascale Gisquet -Verrier mentions that the formula "debate around the drink" is certainly less risky from a financial viewpoint compared to the "dinner-debate" one without diminishing the scientific impact. Nevertheless, such an event is notably time-demanding and should be probably better managed with the participation of an external sponsor. Susan Sara insists on the necessity to promote similar events in parallel with large meetings that already ensure the presence of distinguished scientists on the site.

Hans-Otto Karnath briefly reports on the next EBBS workshop (La Londe, France,

5-8 September 2002) that he is organising with AD Milner and M. Desmurget. He mentions that seventy young (less than 35) and forty senior scientists have registered while twenty two speakers will give a lecture during the workshop. The secretary remarks that this EBBS workshop is the last one in programme and launches a call for proposals

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**Planck Institut of Psychiatry, Munich, Germany) and Berry M. Spruijt (Veterinary Medicine, University of Utrecht, The Netherlands)**

2. Human Anterior Prefrontal Contributions to Cognitive Control. **Stefan Pollmann (Day Clinic of Cognitive Neurology, University of Leipzig, Germany)**

3. Basal Ganglia and Cognition. **Claudio Da Cunha (Universidade Federal do Parana, Curitiba, Brasil)**

4. Goals in Action. **Wolfgang Prinz (Max - Planck Institute for Psychological Research, Munich, Germany) and Birgit Elsner (University of Heidelberg, Germany)**

5. Advances in Understanding Hippocampal Contributions to Memory Formation. **Mike Stewart (Open University, Milton Keynes, UK) and Gernot Riedel (University of Aberdeen, UK)**

6. Cross-modal Organization and Plasticity of Brain and Behaviour in the Blind. **Josef P. Rauschecker (Georgetown University, Washington, DC, USA)**

7. Coding in the Brain: Integrative Hypotheses Revisited. **Andrzej Wróbel (Nencki Institute of Experimental Biology, Warsaw, Poland) and Reinhard Eckhorn (Department of Physics, University of Marburg, Germany)**

8. Early Life Experiences and Their Effects on the Ability to Cope with Stress. **Fotini Stylianopoulou (Athens University, Athens, Greece) and Gal Richter-Levin (University of Haifa, Haifa, Israel)**

9. Pheromones - from Genes to Behaviour. **E. Barry Keverne (University of Cambridge, U.K.)**

10. Anatomical Correlates of Conscious Perception. **Hans-Otto Karnath (University of Tübingen, Germany)**

11. Midbrain Dopamine Neurons: Functions and Regulation. **Philip Winn (School of Psychology, University of St Andrews, UK)**

12. Genes, Brain and Behavior. **Pierre L. Roubertoux (Institut de Neurosciences**

**Physiologiques et Cognitives; INPC-CNRS Marseille, France)**

13. Cerebellum: Cognition and Emotion.

**Piergiorgio Strata (Department of Neuroscience, University of Turin, Italy)**

14. Widespread Cortical Contributions to Visual Attention. **Pieter R. Roelfsema**

**(The Netherlands Ophthalmic Research Institute, Amsterdam, The Netherlands)**

## **Euro-Conference and EBBS workshop on "Cognitive and Neural Mechanisms of Visuomotor Control"**

*La Londe (France), 5th-8th September 2002*

**Organisers: A. David Milner (Durham, UK), Hans-Otto Karnath (Tübingen, Germany), and Michel Desmurget (Lyon, France)**

The conference discussed the psychological and neural mechanisms involved in the organization of perception and action in human subjects. Twenty-one talks of invited speakers and eighty-four posters, the latter mostly presented by young EU researchers, examined on a broad front the progress and prospects of research, on both healthy and brain-damaged human subjects, into the ways in which bodily movements are controlled and guided by visual information. It also evaluated the contribution of nonhuman studies of the neural substrates of visuomotor control.

The conference demonstrated that processes of perception and action in humans constitute a rapidly advancing area of research, made possible through a happy marriage of neuroscience methodologies with behavioural measurement technologies. The talks and posters included studies of brain-damaged individuals and functional neuroimaging studies, electrophysiological studies of the properties of visually-activated neurones in animals, studies that measured goal-directed and exploratory limb movements in 3 dimensions with fine spatial and

temporal resolution using optoelectronic recording systems, as well as studies that were based on the accurate measurements of eye movements. The forum also critically looked at processes subserving the perception of objects in extra-personal space and the organisation of motor responses, such as reaching by limb movements, orientation or locomotion. Some papers concentrated on the ongoing integration of multisensory information contributing to the generation of dynamic and updated spatial representations of the changing environment. A further question discussed was whether the internal representation of space involved in these processes is a unitary system or rather includes a number of discrete components. Overall the meeting offered a number of valuable new insights into the mechanisms underlying the psychological and neural mechanisms involved in the organization of perception and action in human subjects. A special issue of *Experimental Brain Research* based on the Conference is being prepared for publication by Springer-Verlag, Heidelberg, Germany, and we are confident that it will constitute an important landmark in this field of research.

The meeting gained significantly from the atmosphere provided through the meeting site. The conference took place in La Londe near the medieval town of Hyères in the South of France. The conference centre was ideal to keep people together in small groups so that stimulating discussions were carried on throughout the meeting. It also guaranteed an almost ideal mixing between the young investigators at the PhD/MD or post-doctoral level (coming mostly from European countries), and the leading scientists in the field.

No doubt, that in particular the young EU scientists, benefited tremendously from the critical and enthusiastic discussions during the meeting.

**Speakers were:**

**RA Andersen:** Sensorimotor transformations in posterior parietal cortex.

**F Binkofski:** Acting in the peripersonal mirror space – a combined lesion and PET.

**D Boussaoud:** The fronto-striatal system and visuo-motor learning.

**E Brenner:** Coping with visuo-motor delays.

**B Bridgeman:** Limits of the sensorimotor branch of the visual system.

**JC Culham:** Human neural substrates of visually-guided grasping.

**M Desmurget:** Basal ganglia mediate the planning of movement amplitude.

**C Galletti:** Visuomotor functions of the medial parieto-occipital cortex.

**M Gentilucci:** Object motor representation and language.

**MA Goodale:** Grasping the past and the present: When does visuomotor programming occur?

**M Jeannerod:** Investigating the mechanisms of self-recognition.

**RS Johansson:** Vision in control of manipulation.

**H-O Karnath:** Goal-directed and exploratory behaviour in patients with spatial neglect.

**AD Milner:** Perception and action in neglect and extinction.

**M Matelli:** Anatomical organization of the dorsal visual stream.

**RE Passingham:** Imaging pathways from vision to action.

**M-T Perenin:** Automatic and deliberate spatial behaviour in patients with optic ataxia and unilateral neglect.

**G Rizzolatti:** Action and perception: the three visual system hypothesis.

**Y Rossetti:** Immediate versus delayed reaching tasks in optic ataxia: What happens during the delay?

**AM Wing:** Take a hold of yourself! study.

*Hans-Otto Karnath*

## **The European Diploma in Cognitive and Brain Sciences (EDCBS)**

### **An international and interdisciplinary postgraduate program**

International activities and interdisciplinary approaches in research are both well-respected and sought-after features in today's scientific world. And there actually are many advantages that come with researchers who can at the same time look across national and disciplinary boundaries. But how do we enable them to do this, when restraints in their time budget, their integration into a hard-working and highly disciplined laboratory, and also financial limitations make it so difficult for them to gain knowledge about other disciplines and also make the personal contacts which are so vital for future co-operation?

The European Diploma in Cognitive and Brain Sciences (EDCBS) is an effort aiming at exactly this problem. Twenty doctoral students from nine different countries will meet at four different occasions during the years 2003 and 2004. All four sessions will last for two weeks, with two modules per session. The participants will have sufficient opportunities to work with, and make friends with, colleagues from various other countries, because the group is not going to change during these two years. All twenty participants are in their first or second year of Ph.D. work when the EDCBS is starting, and they all are interested in learning about other disciplines. When selecting these twenty participants from more than sixty applications, the EDCBS Committee had in mind, besides outstanding academic qualifications, the goal to form a group with a variety of scientific interests and fields represented, and also wide geographic distribution.

The four sessions will take place in March and October, 2003, and March and October 2004. Each session will offer one module focussing on a FUNCTION (e.g.

Memory, Language, Attention...), and one module focussing on a METHOD (e.g. Neuropsychology, Animal Research, Brain-imaging....). The goal of the EDCBS program is to provide all participants with first-hand knowledge about the state-of-the-art in the various fields taught, but also to offer training of "soft skills", such as giving presentations and working in teams. To ensure this, international groups of teachers have been put together for all modules. These teachers are going to lecture and to lead group-work for the students. Group work leading to presentations by students plays an important role in the structure of the EDCBS. For each module there will be three experienced researchers acting as senior teachers and one junior teacher (typically a recent post-doc and oftentimes a participant in the first EDCBS class of 2000/2001).

It must be mentioned that the EDCBS has one more major goal: By giving young Ph.D. students this training and opportunity, it is hoped that later in their careers they will play an important role in developing curricula and teaching programs which again focus on interdisciplinary approaches and international groups of participants. So, apart from building networks for future research co-operation, there is also another objective, probably one that needs more time to come true, but one that is equally important for the development of an academic world that actually encourages future students to broaden their views, both academically and personally.

Not only participants and teachers of the EDCBS are international groups, but also the Organizing Committee. Six researchers have taken on the responsibility to organise the program, watch over its quality, and select participants. These six persons are Irene Daum (Bochum), Harold Bekkering (Nijmegen), Manuel Carreiras (Tenerife), Leonardo Chelazzi (Verona), Rolf Möller (München), and Jan Theeuwes

(Amsterdam). All committee members are also going to organise at least one of the modules, and some will actually act as teachers, too. Most of the technical organization as well as financing about one half of the budget is the task of the Hanse-Wissenschaftskolleg (HWK or Hanse Institute for Advanced Study, <http://www.h-w-k.de>) in Delmenhorst, Germany. Fostering interdisciplinarity and special attention for the needs and training of young scientists are two of the main tasks of the HWK. The Institute also will host three of the four sessions, the remaining fourth session will take place at Manuel Carreiras' Universidad de la Laguna (<http://www.ull.es>) in Spain. The whole programme has been made possible through generous support from the Volkswagen Foundation in Hannover. (<http://www.volkswagenstiftung.de>). Detailed information can be obtained from the six committee members and from the Hanse Institute, where Wolfgang Stenzel is responsible for all organizational aspects (E-Mail: [wstenzel@www.h-w-k.de](mailto:wstenzel@www.h-w-k.de)).

Application requirements, schedules, and other information about the current course can also be found on the EDCBS website <http://www.nici.kun.nl/EDCBS/index.htm>

*Hanse-Wissenschaftskolleg and Wolfgang Stenzel*

## **Nominations and Elections**

The mandate of two committee members – Anna Grabowska and Catherine Thinus-Blanc – will expire this year at the EBBS business Meeting in Barcelona and two new officers have to be elected.

There have been four nominations for the committee (H. Forssberg, Georg Goldenberg, Ignacio Morgado-Bernal, A. Wrobel) The autobiographical sketches of the candidates are below:

*Hans Forssberg is professor in Neuroscience at Karolinska Institutet (KI) and Neurologist-*

*in-Chief at the Department of Neuropediatrics at Astrid Lindgren Children's Hospital in Stockholm. He recently completed a three year period as Dean of Postgraduate studies at KI and is Vice Chairman for the European Academy of Childhood Disability (EACD). Forssberg did his PhD training with Sten Grillner studying locomotion and other complex motor behaviours in the spinal cat. His main interest has since been the neural control of motor skill development in children, particularly in children with various neurodevelopmental disorders. Recently his research has become more directed towards studies on executive functions, on the neural circuits controlling these functions (with fMRI) and on the relation between executive dysfunctions and alterations in the monoamine transmission (with PET) in children with neurodevelopmental disorders*

*Georg Goldenberg was born 1949 in Vienna. He studied medicine and was trained as a neurologist in Vienna with stages in Paris (1983, with Francois Lhermitte and Jean Louis Signoret) and Aachen (1985, with Klaus Poeck). Habilitation in 1986 on "Neurological Basis of Visual Imagery". Since 1995 he is head of the Neuropsychological Department of Bogenhausen Hospital in Munich which is concerned with rehabilitation of brain damaged patients. He is associate editor of "Neuropsychologia" and "Cortex". His has published papers and chapters on visual imagery, visual agnosia, anosognosia, memory disorders and apraxia and a (German) textbook on neuropsychology. In the last years his main research interests were disorders of imitation and of use and tool and objects. He has collaborated in functional imaging studies but the emphasis of his work is on the cognitive neuropsychology of brain lesions in man.*

*Ignacio Morgado-Bernal is Professor of Psychobiology in the Autonomous University of Barcelona, Spain. After research training in the University of Bochum (Germany) with Juan D. Delius, he was a pioneer in initiating*

*Behavioral Neuroscience research in Spain. He has taught Physiological Psychology from 1975 and he was one of the founders of the first laboratory of experimental Psychobiology in his university, which, in turn, was one of the first in Spain as well. From 1980 he has co-ordinated a group of researchers working on modulation of memory consolidation (brain electrical stimulation, intra-cranial self-stimulation, paradoxical sleep, adrenaline) in rats. He has received awards from the Spanish Society of Psychology (1982) and the Science Museum of Barcelona (1985). As scientific advisor of "Editorial Ariel" (one of the main Spanish Publishing Co.) he has strongly contributed to the diffusion of Behavioural Neuroscience in Spain. He has been director of the Psychobiology Department at the Autonomous University of Barcelona (1998-2000) and he is the president of the local committee for the organisation of the 2003 EBBS AGM in Barcelona.*

*Andrzej Wróbel (b. 1946) is a professor at the Nencki Institute of Experimental Biology in Warsaw, Poland. He began his studies of the brain and behaviour under the guidance of Prof. Jerzy Konorski and devoted his research to sensory systems. At the onset of his career Prof. Wróbel's interests were primarily devoted to the functional connectivity of the visual system. Currently he is involved in research concerning the cognitive mechanisms regulating brain function. The research is aimed at understanding the rules governing the functionality of the visual and somatosensory systems in behavioral situations. His research is primarily based on electrophysiological recording techniques and neuroinformatic methods of analysis applied to activity of recognized neuronal networks in the behavior of animals and human subjects. Together with other colleagues he founded the Polish Neuroscience Society (and served as its president in 1995-97). He has also organized neuroinformatic activity in Poland as a representative of the Polish Government at the OECD Science Forum (1996-2002). He*

*chaired two EBBS symposia (1997 and 2003) and co-organized five other international neuroscience congresses. For the past four years he also holds the academic position of professor in the field of neuroscience. He is co-author of three neuroscience textbooks and editor of many others. From 1990 to 2002 he was Editor in Chief of Acta Neurobiologiae Experimentalis (ANE), the quarterly journal of brain research, and is currently on the editorial boards of five neuroscientific journals (including two internationally published – the ANE and Neuroinformatics). In 2002 he was elected Department Director of Neurophysiology at the Nencki Institute.*

**The mandate of the President, Susan Sara, will expire next year and a new President-elect has to be chosen. Two candidates, presently members of the EBBS committee, have been nominated: John Aggleton and Stéphanie Clarke. Their autobiographical sketches are below:**

*John Patrick Aggleton has been Professor of Cognitive Neuroscience at the School of Psychology, Cardiff University, Wales since 1994. He obtained a D.Phil. degree in 1980 at the University of Oxford working under the supervision of Dr Richard E. Passingham. Successively, he has been visiting fellow at the Laboratory of Neuropsychology of the National Institute of Mental Health in Bethesda under the directorship of Dr M. Mishkin, and then lecturer/senior lecturer at the University of Durham UK. During his career, he has focused on the neurobiology of emotion, memory and mental dysfunction with a specific attention devoted to the role of the amygdala and related temporal lobe and diencephalic areas in distinct forms of memory (recognition, episodic, working memory). This research has been conducted in various animal species as well as in humans. As head of a productive research group, he has used a variety of approaches including selective brain lesions, pharmacological manipulations, and gene expression imaging. He is the author of numerous scientific publications (articles, book chapters and books), and currently a*

member of the editorial board of the following journals (*European Journal of Neuroscience*, *Behavioral Neuroscience*, *Neuropsychologia*, *Brain Research Bulletin*, and *Neuroscience and Biobehavioral Reviews*). He has been a member of the EBBS since 1990.

**Stéphanie Clarke** is Professor and Head of Neuropsychology at the Medical Faculty in Lausanne. She received her medical training in Lausanne and received the "Henri-Ed de Cérenville" prize for her doctoral thesis on the development of callosal connections. She later started work on the human cerebral cortex making use of the Nauta's method to trace the callosal connections in man and defining thus anatomically visual areas. Her current's work concerns the functional organisation of the human auditory cortex and combines different approaches. Anatomical studies using histochemical staining methods and tracing of neural connections helped to identify several putative auditory areas outside the primary auditory cortex. Activation studies in normal subjects and neuropsychological studies in patients with focal lesions demonstrated two distinct processing pathways the *What* and *Where* aspects of sound analysis. S. Clarke is a long-standing and enthusiastic EBBS member. In 1999, she co-organised (together with A. Grabowska and M. Regard) the rather successful EBBS workshop "Hemispheric specialisation and compensatory brain strategies in brain disorders" (Monte Verita, Switzerland), in 2000 the FENS symposium "Processing in Human auditory cortex", and in 2001, during the last EBBS Meeting in Marseille, the symposium "Parallel and hierarchical processing in human audition". S. Clarke is member of the Swiss Society for Neuroscience Council.

**Elections are carried out by postal ballot to be returned by July 30**

## News from EBBS membership

EBBS is delighted to welcome the following news members:

Adlam Anna-Lynne, London, U.K.  
Bach Laura, London, U.K.  
Baldeweg Torsten, London, UK  
Baydas Giyasettin, Elazig, Turkey  
Bekisz Marek, Warsaw, Poland  
Belayev Maxim,  
Belton Emma, London, U.K.  
Bethus Ingrid, Bordeaux, France  
Blaszczyk Janusz W., Warsaw, Poland  
Broks Paul, Plymouth, U.K.  
Cherninskyj Andrij, Kiev, Ukraine  
Christoff Kalina, Cambridge, U.K  
Coutureau Etienne, Bordeaux, France  
Cybulska-Klosowicz Anita, Warsaw, Poland  
Ennaceur Abdelkader, Sunderland, U.K.  
Ferry Barbara, Strasbourg, France  
Frith Chris, London, U.K.  
Goodall Glyn, Bordeaux, France  
Groves Duncan, St-Andrews, UK  
Guillazo-Blanch Gemma, Barcelona, Spain  
Hjaltason Haukur, Reykjavik, Iceland  
Hogan Alexandra, London, U.K  
Horvitz Jon, Columbia University, U.S.A.  
Hutcheson, Daniel, Cambridge, U.K.  
Karagiannopoulos Athanasios, Athens, Greece  
Knoch Daria, Zürich, Switzerland  
Lawrence Andrew, Cambridge, UK  
Lillywhite Leasha Michelle, London, U.K  
Marcar Valentine, Zurich, Switzerland

Mayo Willy, Bordeaux, France  
 Mirza Naheed, Ballerup, Denmark  
 Mouly Anne -Marie, Bron, France  
 Nordby Trine, Barcelona Spain  
 Obonsawin Marc, Strathclyde, U.K  
 Pollmann Stefan, Leipzig, Germany  
 Redolar-Ripoll Diego, Barcelona, Spain  
 Richter-Levin Gal, Haifa, Israel  
 Rowan Allison, London, U.K  
 Salmond Claire Helen, Cambridge,  
 Sanchez-Vives, Maria, Alicante, Spain  
 Scalera Giuseppe, Modena, Italy  
 Shameem Ejaz Syed, Karachi, Pakistan  
 Spruijt Berry, Utrecht, The Netherlands  
 Surget Alexandre, Tours, France  
 Slawinska Urszula, Warsaw, Poland  
 Swiejkowski Daniel, Warsaw, Poland  
 Tadayyoni Gholamreza, Iran  
 Vafaei Abbas A., Semnan, Iran  
 Vale-Martinez Anna, Barcelona, Spain  
 Whiting Bryony, London, U.K  
 Zandbergen Thijs, Utrecht The  
 Netherlands

Encourage your colleagues to support behavioural neuroscience within the European Neuroscience community by becoming members of EBBS. Submit online application via the EBBS website. [www.ebbs-science.org](http://www.ebbs-science.org)

## Coming events

### EBBS Prefrontal Cortex Workshop

The School of Psychology at the University of St Andrews will host a one-day EBBS workshop and Gala Dinner on Wednesday

June 25th in honour of Professor Patricia Goldman-Rakic, who is receiving an honorary degree from the University. The topic of the workshop is:

#### The Prefrontal Cortex.

Speakers include, S. Granon, R. Kesner, R. Passingham, T.W. Robbins, A.C. Roberts and J.Wallis.

Registration is free, contact Duncan Groves ([dag1@st-and.ac.uk](mailto:dag1@st-and.ac.uk)) for further details and to register.

### EBBS Business Meeting in Barcelona

The EBBS Business meeting is already scheduled on Thursday 18, at 19.30. Please, come to this meeting to be informed on the administration and the objectives of our Society, and to provide the committee with your comments and suggestions !

### 6<sup>th</sup> IBRO Congress, Prague, 10-15 July 2003

The next - that will also be the last - IBRO Meeting will be held next year in Prague. For more information, contact the IBRO website; <http://www.ibro.2003.cz>

### EBBS deadlines

#### Barcelona Meeting:

Late online registration: September 16<sup>th</sup> 2003

#### Elections:

Postal ballot to be returned by July 30th

**European Brain and Behaviour Society (EBBS)**

EBBS is a society designed to promote the exchange of information between European scientists interested in the relationships of brain mechanisms and behaviour. Membership is open to all European scientists, and Associate

Membership is available for non Europeans. Annual subscription rates for Ordinary and Associate member is 50 Euro – and for Retired and Student members 25 Euro.

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**European Brain and Behaviour Society Membership Application Form**

(the applicant is reminded that the Society has agreed “that its aim should be broad in the sense that all neurosciences may be represented, but restricted in the sense that they shall be included only if there is a demonstrable interest in the relationship of those fields to behaviour”).

*Address:*

*Electronic mail:*

*Fax:*

Please enclose your curriculum vitae and publication list.

*Name:*

Fields of interest to the Society:

**Present post:**

N.B. Students should include a letter from their supervisor in order to qualify for reduced membership fees

**Date  
Signature**

Applications should be sent to the secretariat of EBBS:

Martine Ammassari-Teule  
Istituto di Neuroscienze - CNR  
Laboratorio di Psicobiologia e Psicofarmacologia  
IRCCS Fondazione S. Lucia  
306 Via Ardeatina  
00179 Rome ITALY

Online applications can also be sent via the EBBS website: [www.ebbs-science.org](http://www.ebbs-science.org)