



FEPS

Federation of European Physiological Societies

FEPS NEWSLETTER

March 2006, #7

<http://www.feps.org>

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**Deadline Abstract submission for
the meeting of the Physiological Society in
London, July 5-7, 2006
<http://physoc-ucl2006.abstractcentral.com>**

March 13, 2006

Letter of the President of FEPS

Dear Colleagues,

The joint German Physiological Society – FEPS meeting in Munich is now coming very close! The excellent program with the many participants from all over Europe - and other parts of the world - promises a successful meeting. Add the thriving initiative with a special symposium arranged by the *European Young Physiologists* and the recurring Symposium on Teaching Physiology. Both activities are scheduled on Sunday, March 26 and indicate that we are on the right track to find a “European format” for annual “joint meetings” arranged by a national member Society and FEPS.

It is indeed time to plan the detailed activity calendar for the Meeting. Look for the full program at this address:

<http://physinst.web.med.uni-muenchen.de/dpg06/>.

To find the names of participants and the abstracts use the following address: <http://www.dpg-online.org/kongress/user.php>. Presently there are 1129 participants – many of them from outside Germany, and 944 abstracts. The overall view of the program – with possibilities to click into the details – is found at the following address:

http://www.dpg-online.org/kongress/user.php?target=calendar_s&fromsite=target%3Dabout

During the Munich meeting FEPS will have business meetings both of its Executive Committee and the Council – important issues at both business meetings are a better knowledge on the present teaching of physiology in European countries – at a time when Departments and Courses are changing from traditional divisions to more integrated units. How do we secure that the core curriculum remains intact – and that the students also are exposed to the developing future of our field? In the Newsletter #5 we had reports from the Physiology Teaching Workshop in Bristol. They are now uploaded on the FEPS Homepage. It is my hope that we will end up by having a “knowledge base” on physiology teaching in Europe on our Homepage.

Further initiatives to make *Acta Physiologica* the effective FEPS journal will be discussed. A broader Editorial Board covering both all fields of physiology and the European nations, and the publication of abstracts from national meetings are important issues. Obviously the next joint meeting in Bratislava is high on the agenda. It takes place September 11-14, 2007, and is a joint venture between the Slovak Physiological Society, the Physiological Society and FEPS. The deadline for Symposia proposals already passed on February 15 this year, and a subcommittee will work out a preliminary program during the Munich meeting.

Let us meet in Munich – the place to be March 26-29 !

Hans Hultborn
President of the Federation of European Physiological Societies



Joint Meeting of The German Physiological Society and The Federation of European Physiological Societies (FEPS)

Munich, March 26 - 29, 2006

Program

Program Committee

Prof. Dr. Busse, Frankfurt
 Prof. Dr. Deußen, Dresden
 Prof. Dr. Jelkmann, Lübeck
 Prof. Dr. Jonas, Freiburg
 Prof. Dr. Pfitzer, Köln
 Prof. Dr. Pott, Bochum
 Prof. Dr. Richter, Göttingen
 Prof. Dr. Misgeld, Heidelberg

Prof. H. Hultborn, Copenhagen, Denmark
 Prof. G. van der Vusse, Maastricht, Netherlands
 Prof. B. Lumb, Bristol, United Kingdom
 Prof. E. Sykova, Prag, Czech Republic
 Prof. H. Murer, Zürich, Switzerland

Program Scheme

Time	Saturday, March 25th	Sunday, March 26th	Monday, March 27th	Tuesday, March 28th	Wednesday, March 29th
8:15-10:30	10:00 Satellite Symposium New and Emerging Techniques in Electrophysiology	Young FEPS See special schedule	Symposia (SM1-SM6)	Symposia (ST1-ST6)	Symposia (SW1-SW6)
Pause					
10:45-11:45		Young FEPS See special schedule	Plenary Lecture (1)	Plenary Lecture (2)	Plenary Lecture (5)
11:45-12:30			Poster	Poster	Poster
Pause					
13:30-15:00	Satellite Symposium	5 Symposia (SS1-SS5) 4 Workshops for young physiologists (W1-W4)	Orals (7x)	Orals (7x)	Orals (7x)
15:00-15:45		See special schedule	Poster	Poster	Poster
Pause					
16:00-17:30		Young investigators	Orals (7x)	Orals (7x)	Orals (7x)
Pause					
17:45-18:45		Young investigators	Plenary Lecture (2)	Plenary Lecture (4)	Plenary Lecture (6)
18:45		Opening/Welcome	Member's Assemblies	Congress Dinner	
20:30		Party for young FEPS			

Plenary lectures: speakers and topics

Monday	Tuesday	Wednesday
Plenary lecture (1) <i>Prof. Hannah Monyer, Heidelberg, Germany</i> Gabaergic interneurons and the role of inhibition in the brain	Plenary lecture (3) FEPS Lecture <i>Prof. Francois Verrey, Zurich, Switzerland</i> New epithelial amino acid transporters	Plenary lecture (5) <i>Prof. Ferdinand LeNoble, Maastricht/Paris, the Netherlands, France</i> Neural genes in branching morphogenesis and vascular development
Plenary lecture (2) <i>Prof. Avril Somlyo, Charlottesville, USA</i> Signaling by G-proteins, Rho-kinase and protein phosphatase to smooth and non-muscle myosin II	Plenary lecture (4) <i>Prof. López-Barneo, Seville, Spain</i> Oxygen sensing and ion channel function	Plenary lecture (6) Winner of the Dubois-Reymond Award (tba)

List of Symposia and Symposia speakers Munich 26-29, 2006

Sunday, March 26, 2006

	<i>Symposia Titles</i>	<i>Chairmen/ Proposers</i>	<i>Speakers</i>	<i>Title Topic</i>
SS1	Innovative methods in Teaching Physiology - Experiences with Problem Based Learning (FEPS)	Snoeckx	Luc Snoeckx Carlo di Benedetta Gillian Maudsley Anne Custers To be confirmed Mascha Verheggen	Teaching Physiology via Problem Based Learning. An introduction The pros and contras in our experience for implementing the PBL and COE methodology in traditional Medical Schools Tutoring medical students in a problem-based curriculum : roles and realities How do students experience PBL as a vehicle for learning Physiology The relation between computer technology and PBL How can we reliably evaluate knowledge acquired via PBL
SS2	Purinergic mechanisms in muscle nociception	Ellrich	Alan North Ulrich Hoheisel Eike D. Schomburg Jens Ellrich	Purinergics and peripheral pain mechanisms Excitatory effects of ATP on muscle afferents Spinal sensorimotor control and purinergics P2X receptors and neck muscle pain
SS3	New insights in cerebellar physiology	Kolb	Christopher H. Yeo Steve A. Edgley Dagmar Timmann Matthias Maschke Hans-Peter Thier	Cerebellar function in motor memory formation Information processing in cerebellar cortex Cerebellum and Cognition Influence of cerebellar dysfunction on motor learning. The cerebellar basis of motor learning
SS4	Gas channels in membranes	Gros	WF Boron R Kaldenhoff H Ehmke/ME Blank JP Cartron G Gros/ V Endeward	Role of aquaporin 1 for CO ₂ permeation across the luminal membrane of the rat kidney proximal tubule The tobacco aquaporin NtAQP1 is a membrane CO ₂ pore with physiological functions Evidence for transport of molecular CO ₂ across the red cell membrane by aquaporin 1 and AE1 Rhesus proteins constitute a pathway for gaseous NH ₃ Contribution of aquaporin 1 and Rh proteins to the CO ₂ permeability of the human red cell membrane
SS5	Cardiovascular Genomics	Raizada	Andrew Baker Robin Davisson Julian Paton David Paterson Mohan Raizada	Viral vectors for cardiovascular gene therapy Physiological genomics of the cardiovascular system Central cardiovascular control and neural gene transfer NO and cardiac functions Gene therapy for hypertension
W1	Quantitative PCR			To be announced
W2	RNA Interference			To be announced
W3	Stem Cells			To be announced
W4	Career Planning			To be announced

Monday, March 27, 2006

	Symposia Titles	Chairmen/ Proposers	Speakers	Title Topic
SM1	Purinergic transmission in the nervous system	Verkhatsky	A. North, A. Verkhatsky H. Zimmermann Peter Illes O. Krishtal A. Nistri	Unitary purinergic EPSCs in cortical neurones Nucleotide signalling in adult neurogenesis Purinoreceptors in neuropathology P2X receptors as targets for opiates and cannabinoids Molecular physiology of P2X receptors
SM2	The mouse model for investigation of motor control in health and disease	Schomburg	Jens Ellrich Bror Alstermark Ole Kiehn Eike D. Schomburg	Long term depression of nociceptive reflexes in mice In vivo recordings of bulbospinal excitation in adult mouse forelimb motoneurons Physiological, anatomical, and genetic identification of CPG neurones in the developing spinal cord of the mouse Fatigability of spinal motor reflexes in the SOD1-G93A mouse – a model for ALS
SM3	The hypoxia response : from mussel to man	Gassmann	Doris Abele Thomas A. Gorr Roland Wenger Max Gassmann Joachim Fandrey Patrick Maxwell	The hypoxia response in mud clam and fish Drosophila and Daphnia in hypoxia The molecular response to hypoxia in mammals Hypoxia, HIF, Epo and excessive erythrocytosis Imaging hypoxia in mammalian cells The impact of HIF and CAIX in tumorigenesis
SM4	Cardio-mechano electric feedback: from pipette to patient	Kohl	Gerrit Isenberg Jean-Luc Balligand André Klebér Uli Schotten Peter Kohl	Effects of different modalities of mechanical stimulation (stretch, compression) on ion handling in cardiac myocytes and non-myocytes Endogenous Nitric Oxide mediates regulation of cardiac contractility and Ca ²⁺ responses to stretch Mechanical effects on cardiac action potential propagation Role of mechanical factors in initiation and sustenance of atrial fibrillation Mechanical interventions for initiation and termination of ventricular tachyarrhythmia
SM5	Alveolar fluid transport: new insights into lung edema and injury	Kübler / Mairbäurl	Heimo Mairbäurl Stuart Wilson Thomas Jonassen Ardeschir Ghofrani	Alveolar fluid transport and the resolution of pulmonary edema Ion channels regulating alveolar fluid transport Adaptation of alveolar fluid transport in congestive heart failure Impaired alveolar fluid clearance in acute lung injury
SM6	Development of the cardio-vasc. system: plasticity through genetic and environmental factors	Dragon	Rob Poelmann Carlos E. Blanco Bernd Pelster Bernd Fleischmann	Development-related changes in the expression of shear stress responsive genes in the developing cardiovascular system of chicken embryos. Effect of prenatal hypoxia on cardiovascular function of the adult Developmental plasticity of the cardiovascular system; blood distribution of the zebrafish incubated under hypoxic conditions in vivo. Embryonic stem cell-derived pacemaker and cardiomyocytes.

Tuesday, March 28, 2006

	<i>Symposia Titles</i>	<i>Chairmen/ Proposers</i>	<i>Speakers</i>	<i>Title Topic</i>
ST1	Blood vessels and nerves: common signals and pathways in development	NN	DG. Wilkinson HG. Augustin NN EB Pasquale	Diverse roles of eph receptors and ephrins in the regulation of cell migration and tissue assembly EphB receptors and ephrinB ligands: regulators of vascular assembly and homeostasis to be announced Eph receptors in the adult brain
ST2	Calcium handling in normal and diseased heart	Sipido	Andrew Trafford Peter Vangheluwe Natal van Riel Andras Varro Laszlo Ligeti	Adapting the systolic calcium transient to the influences of age and day length. The critical role of SERCA2 affinity in the regulation of calcium handling and cardiac function Computational analysis of disturbed calcium handling in the intact heart Calcium handling and cardiac arrhythmias Calcium handling in the diabetic heart
ST3	GABA and epilepsy	Köhling	Kai Kaila Matthew Walker George Kostopoulos Marco de Curtis	KCC2 and CA7 and their role in epilepsy Tonic activation of GABA receptors and epilepsy Functional differentiation along the axis of the hippocampus and its relevance for epileptogenesis Parahippocampal circuits and epileptogenesis
ST4	Mechanisms of glia axon communication and nervous system repair	Hülsmann	Arthur Butt Michael Sereda Eva Sykova Jacqueline Trotter Norbert Weidner	Calcium signalling in NG2-expressing glia Genetic defects of myelination: molecular pathogenesis of hereditary neuropathies (CMT1A) Glia, stem cells and biomaterials - working together to repair spinal cord injury NG2-expressing cells in glial-axonrecognition and myelination. Cell-contact mediated axonal regeneration in the injured spinal cord.
ST5	Molecular mechanisms operating in the normal and diseased proximal tubule: new insights and perspectives	Devuyst	Heini Murer / Carsten Wagner Olivier Devuyst / Pierre Courtoy Erik I. Christensen Thomas Willnow / Anders Nykjaer	Transport of amino acids, phosphate, and organic cations/anions in the proximal tubule Endocytosis in the proximal tubule: Insights from mouse models of renal Fanconi syndrome Lysosomal storage and Fabry disease Multiligand receptors-derived strategies to prevent aminoglycoside-induced nephrotoxicity
ST6	Physiology and biophysics of KCNQ potassium channels	Friedrich	Holger Lerche Guiscard Seeborn Thomas Jentsch Jacques Barhanin Álvaro Villarreal Michael Schwake	The retigabine interaction site of KCNQ channels KCNQ1 kinetics and influence of the beta subunit KCNE1 Insights into systems biology of KCNQ channels Gain-of-Function Mutations of KCNQ1 and KCNE2 in familial atrial fibrillation ? Mechanisms underlying KCNQ2/3 heteromeric potassium M-channel potentiation? Interaction of antiepileptic drugs with KCNQ channels?

Wednesday, March 29, 2006

	Symposia Titles	Chairmen/ Proposers	Speakers	Title Topic
SW1	Versatility of intracellular signalling pathways: From receptor to network plasticity	Ponimaskin	Stefan Offermanns Nevin Lambert Guillermina Lopez-Bendito Evgeni Ponimaskin Weiqi Zhang	Mouse models for study G-protein-mediated signalling GABAB-receptor and IRK interactions GRCRs in developing brain New signaling pathways mediated by 5-HT receptors GABAB-receptor signalling in postnatal development
SW2	Cardiac physiology and pathophysiology in transgenic mice	Suleiman	K. Zacharowski D. Escande K. Willecke Chris Jackson Costanza Emanuelli	Knock-out mice and the role of cardiac Toll-like receptors Mouse models of cardiac arrhythmias and conduction defects Expression and function of connexins in mouse heart Cardiac characteristics of ischaemically diseased mouse heart Cardiovascular pathology of kallikrein-kinin system in mouse
SW3	Aldosterone and vascular function	Skott	Martin Wehling Michael Gekle Hans Oberleithner Ole Skøtt Allan D. Struthers	Rapid effects of aldosterone on vascular function Aldosterone signaling mechanisms: the role of EGFR. Aldosterone and endothelial cell function; lessons from the atomic force microscope. Rapid effects of aldosterone on renal afferent arterioles. Effects of aldosterone blockade on endothelial function in patients; type 2 diabetes and heart failure
SW4	Chloride channels: structure function disease	Schwarz	Thomas Jentsch Michael Pusch Anselm A. Zdebik Alessandro Sardini Sheppard David N. Sheppard	Introduction and overview about CIC channels Biophysics and molecular pharmacology of Cl ⁻ -transporting CIC proteins. Chloride-Proton exchanger mediated by CIC Proteins Cell volume-regulated chloride channels CFTR: from physiology to clinic
SW5	Amino acid transporters: expression regulation and physiological role	King	Hari Hundall Ellen Closs David Thwaites Hannelore Daniel Matthias Brandsch	Sensing and signalling mechanisms underlying the regulation of the System A amino acid transporter in response to changes in amino acid availability Regulation of cationic amino acid transporters (CATs) PAT1 (SLC36A1) and the SLC36 family of proton coupled amino acid transporters Peptide transporters in E. coli and C. elegans: what can we learn from them? Transporters for proline and proline-containing peptides
SW6	Calcium Signalling	Garaschuk/ Parekh	Arthur Konnerth Ole Petersen Jose Lopez-Barneo Anant Parekh Franz Hoffmann	Synapses/ Calcium and Neurotransmitter release Calcium Oscillations, Calcium Waves and the Pancreas Calcium Signalling and Hypoxia Store-operated Channels and Cell Signalling Calcium Channels

Program for young FEPS

8:30-8:35	Opening EYPS		
8:35-9:15	Keynote Lecture: Atherosclerotic Plaque Rupture, Esther Lutgens		
9:15-10:15	Oral 3x		
Pause	Poster set up		
10:45-11:25	Keynote Lecture: VEGF in Neurological Disease, Diether Lambrechts		
11:25-12:05	Oral 2x		
Pause	Lunch Moderated Poster Session I.		
13:30-14:30	I. Quantitative PCR (Biorad)	II. RNA interference (Invitrogen)	III. Stem Cells
Pause	Moderated Poster Session II.		
16:00-17:30	Young Investigator Award 4x		
Pause			
17:45-18:45	Young Investigator Award 4x		
18:45-....	Welcome Reception EYPS Award Ceremony		
20:30-...	EYPS Party		

Joint Meeting
of
The Slovak Physiological Society
and
The Physiological Society
and
The Federation of European Physiological Societies



BRATISLAVA, September 11-14, 2007

Dear colleagues,

We are delighted to invite you to this Joint Meeting in the capital of Slovakia.

With your help, suggestions and participation the most rapidly developing areas and hot topics in Physiological Sciences will be adequately represented in plenary lectures, symposia, and open oral & poster presentations. Prompted by the overwhelming success of the European Young Physiologists Symposium in Munich, a special symposium will be organized by and for young European scientists. You will be informed on registration, abstract submission and hotel reservations soon. We hope you will enjoy the science presented at the Joint Meeting and the friendly atmosphere in Bratislava, as well as its history, cultural life and beauty.

On behalf of the local organizers, Vladimír Strbák

Meeting of the Physiological Society hosted by University College London

London, July 5-7, 2006

Dear Colleagues,

We are pleased to announce that abstract submission for the next meeting of The Physiological Society being hosted by University College London from 5 to 7 July 2006 is now open.

Please visit our website for further details <http://meetings.physoc.org/ucl/>

We would be grateful if announcements could be made to your individual membership lists and would gratefully accept reciprocal web links.

All Special Interest Groups are active for this meeting. 16 symposia, three workshops and 7 Plenary/Prize Lectures have been scheduled with space for over 130 oral communications, posters and demonstrations.

A preliminary programme overview may be downloaded from <http://meetings.physoc.org/ucl/PreliminaryProgrammev1.pdf> and all symposia have now been finalised.

We look forward to welcoming you to London in July 2006.

With best wishes

Nick Boross-Toby
Head of Events

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The International Union of Physiological Sciences: IUPS Editorial

Akimichi Kaneko and Ole H. Petersen

Physiology 21:2-, 2006. Doi:10.1152/physiol.00061.2005

You might find this additional information useful...

Medline items on this article's topics can be found at <http://highwire.stanford.edu/lists/artbytopic.dtl> on the following topics:

Medicine .. Scientific Councils

Updated information and services including high-resolution figures, can be found at:

<http://physiologyonline.physiology.org/cgi/content/full/21/1/2>

Additional material and information about *Physiology* can be found at:

<http://www.the-aps.org/publications/physiol>

This information is current as of January 29, 2006

EDITORIAL

Akimichi Kaneko, IUPS President; Ole H. Petersen, IUPS Sec. General
physiol.00061.2005

PHYSIOLOGY 21:2, 2006; 10.1152/

The International Union of Physiological Sciences IUPS Editorial

This is the first of a newly established series of IUPS Editorials in *Physiology*. We thank the Editor-in-chief, Walter Boron, for this opportunity to inform the readers of *Physiology* about the activities of the International Union of Physiological Sciences (IUPS).

The most important recent IUPS event was the 35th International Congress of Physiological Sciences held in San Diego, California, from 31 March to 5 April, 2005. This Congress had many new features, including a very successful series of tracks covering some of the most important current physiological themes. As part of Experimental Biology, there were ample opportunities to benefit from and participate in events organized by friendly neighboring subjects and for members of these other societies to see what physiologists had to offer. With more than 10,000 registered participants, this gave unprecedented exposure to physiological research at a time when this subject is undergoing a major revival.

The 35th IUPS Congress in San

Diego provided a much needed replenishment of IUPS resources. We therefore have good reasons to be very grateful to the American Physiological Society (APS), not only for organizing a superb scientific event, but also for helping the IUPS rebuild our finances so that we may again plan major initiatives. As described in the 2004 and 2005 IUPS Newsletters (<http://www.iups.org>) the scientific program for the San Diego Congress was generated by the IUPS International Scientific Program Committee (ISPC) in cooperation with the APS under the chairmanship of Walter Boron. Walter did a fantastic job for which IUPS is extremely grateful.

The San Diego Congress also represented the crowning achievement of IUPS President Allen Cowley, Jr. Allen was an outstanding President, responsible for a major restructuring and streamlining of the Union's Commission Structure, which did much to facilitate the scientific programming process for the San Diego Congress.

During the San Diego Congress, the IUPS council (for composition see the

IUPS web site mentioned above), chaired by Akimichi Kaneko, who at the General Assembly in San Diego was elected to succeed Allen Cowley as IUPS President, met several times and a number of important decisions were made. The following three are perhaps of particular significance:

1) A Long-Range Planning Committee (LRPC) was established under the chairmanship of Denis Noble, who served as IUPS Secretary General from 1993 until 2001, when Ole Petersen took over. Denis has since completed the composition of this key committee. We are grateful to Denis, Allen Cowley, Cecilia Hidalgo, and Yasunobu Okada for taking on this task. The committee will present its report, making recommendations on future IUPS activities, as well as their resource implications, to the IUPS Council when it meets again in 2007. The LRPC is now seeking opinions from member societies and/or individuals on the future of the physiological sciences, the organization of IUPS, IUPS meetings, finance, relations with the International Council for Science (ICSU), the United Nations Educational, Scientific and Cultural Organization (UNESCO), International Brain Research

Organization (IBRO), and other international organizations, as well as on public relations. We are very interested in receiving opinions from a wide range of the scientific community. Anyone wanting to comment on these issues should write to Denis Noble via the IUPS Secretariat in Paris (e-mail: suorsoni@infobiogen.fr) before 15 May 2006.

2) Council also elected a committee to come forward with specific plans for an Africa Initiative. Tony McKnight is chair with Ann Sefton and David Oyebola as members. The Committee is expected to develop a strategy to be presented to a funding agency to culminate in a major workshop in Africa in four years. Council has allocated seed money to get this potentially important initiative under way.

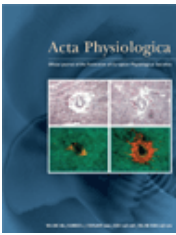
3) After four years of working with the Commission Structure established by the 2001 Council elected in Christchurch, New Zealand, it was

decided to make some adjustments. Based on the experience of planning for the San Diego Congress, it was felt desirable to have a new Commission on Molecular and Cellular Biology. The two Commissions that had previously dealt with various aspects of the neurosciences were merged into one consolidated Neurobiology Commission. The new Commission Chairs are listed on our web site.

Although it may seem early, planning for the 2009 IUPS International Congress of Physiological Sciences is already under way. The 36th International Congress of Physiological Sciences will be held in Kyoto, Japan, from 27 July to 1 August 2009. The IUPS ISPC has already been established. The (international) members elected by IUPS are: Yung Earm, South Korea; Malcolm Gordon, USA; John Hall, USA; Cecilia Hidalgo, Chile; Hans Hoppeler, Switzerland; Peter Hunter, New Zealand; Caroline McMillen, Australia; Ole Petersen, UK;

Quentin Pittman, Canada; Irene Schulz, Germany; Ann Sefton, Australia; and Curt Sigmund, USA. Akimichi Kaneko, Japan, as IUPS President, Yoshihisa Kurachi, Japan, as Chair of the Local Scientific Program Committee, and Pierre Magistretti, Switzerland, as 2nd IUPS Vice-President, are Ex Officio members. The first meeting of the new ISPC will take place in Osaka, Japan, on 20 and 21 January 2006. At this meeting we shall establish the fundamental policy for the generation of the scientific program and specifically make a start to the selection of Plenary Lecturers. Some details about the congress are already available at the IUPS web site.

In association with the 2006 January ISPC meeting, the IUPS Executive Committee will also get together, and in our next IUPS Editorial we hope to give information about the decisions made at these two meetings.



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