

### Executive Committee

D. Duchêne, *FR*  
*President*  
 O.J. Bjerrum, *DK*  
*President-Elect*  
 H. H. Lindén, *SE*  
*Executive Director*  
 C. Bogentoft, *SE*  
 B. Clement, *DE*  
 A. Demirdere, *TR*  
 A. Mrhar, *SI*  
 C. Noe, *AT*  
 R. Paoletti, *IT*

### Member Societies

Austria  
 Belgium  
 Croatia  
 Czech Republic  
 Denmark  
 Finland  
 France  
 Germany  
 Greece  
 Hungary  
 Israel  
 Italy  
 Norway  
 Poland  
 Portugal  
 Slovak Republic  
 Slovenia  
 Spain  
 Sweden  
 Switzerland  
 The Netherlands  
 Turkey  
 United Kingdom

### EUFEPS Secretariat

Hans H. Lindén, Anita Ljung,  
 Annika Nyman

### Address

EUFEPS Secretariat  
 PO Box 1136  
 SE-111 81 Stockholm, Sweden  
 Phone +46 8 7235000  
 Fax +46 8 4113217  
 Email [secretariat@eufeps.org](mailto:secretariat@eufeps.org)  
 Website [www.eufeps.org](http://www.eufeps.org)

### Editor

Peter Williams

### Lay-out

Camilla Boquist/Lådan & Co

## President's Report EUFEPS in 2002

*Professor Dominique Duchêne writes:*

*By the end of the year, one may ask: "What is the news in EUFEPS?" I will try to answer this good question considering two aspects: "What has been achieved in 2002?" and "What is intended for the future?" Of course, I will not give a detailed report on the different activities, but just highlight the novelties.*

2002 being the first year of our second decennium, it was necessary to demonstrate a new direction and some successes in newer activities.

For years, we were intending to launch high-level post-graduate (or continuing education) training courses. After discussing several topics, we started with "High-throughput Drug Metabolism/Disposition" a two-week course held in Noordwijkerhout (1-5 July 2002) and Amsterdam (8-12 July 2002). Thanks to Bernd Clement (Chair of the International Scientific and Planning Committee), Nico P.E. Vermeulen and Jan N.N. Commandeur (course leaders), this event was a true success with some 20 participants. We intend to repeat this event in 2003, perhaps making it a little shorter because of the difficulty in being two weeks away from work. Of course, we have other topics that are already planned such as Biological Sequence Analysis or Combinatorial Organic Chemistry.

Another project during the last two years at least was the renewal of the Elsevier contract for our European Journal of Pharmaceutical Sciences. The goal was to have a contract recognising a true partnership in this publication. Discussions ran for more than one year, but we are on the point of signing a fair and model agreement in which the input of both parties will be recognised and respected.

A true success for this year has been the official recognition of the efforts carried out by our President-Elect, Ole J. Bjerrum, to promote the concept of New Safe Medicines Faster, launched three years

*EUFEPS Council Meeting, 2002*



ago with a workshop held in Brussels under the auspices of the European Commission. Due to Ole Bjerrum's persistence, this concept has been integrated into the EU 6th Framework Programme for Research and Technological Development with the words "rational and accelerated development of new, safer, more effective drugs" in the chapter dealing with Genomics and Biotechnology for Health. This means that for the first time, medicines are recognised as research domains appropriate for strong financial support from the European Commission. As just one example, EUFEPS is supporting an ULLA Expression of Interest for a European network of excellence on "Individualisation of Medicines in the Post-Genomic Era".

Undoubtedly, the greatest event of 2002 was our Congress held in Stockholm from 20 to 23 October 2002. Following the congresses held in Amsterdam, Berlin, Edinburgh, Milan, Budapest, the Stockholm congress was the first one to be entirely organised by EUFEPS. The main topic of congress was New Safe Medicines Faster (see the Conference Report in this Newsletter).

A project we had in mind for months was to strengthen our relations with both the European Association of Faculties of Pharmacy and the European Pharmaceutical Students' Association (EPSA). We had two half-day joint meetings in Stockholm on 18 and 19 October 2002. We intend to have such meetings regularly.

2002 was also the year when EUFEPS had to renew its four-year Strategic Plan. After many

**CONTENTS:** • President's Report EUFEPS in 2002 1 • News of EJPS 2 • European Journal of Pharmaceutical Sciences seeks Drug Regulatory Affairs Experts 2 • Congress Report; 7<sup>th</sup> EUFEPS Congress of Pharmaceutical Sciences 3 • The Pharmacopoeial column 5 • Plant Extracts from Hungary 6 • Pharmaceutical Scientists 6 • Elections to the EUFEPS Executive Committee 6 • Calendar 8



The 2002 Council Open Forum and Meeting were held on October 20, 2002, in the premises of the Swedish Pharmaceutical Society in Stockholm. Major items on the Agenda included: EUFEPS Strategic Plan 2002-2006 (approved), how to coordinate activities of EUFEPS Member Societies and Liaison Organisations, and elections to the EUFEPS Executive Committee. Pictured (from left, above) are Michel Veillard and Atilla A. Hincal (former Executive Committee Members), as well as Bernd Clement (current member), Ole J. Bjerrum (President-Elect), and Dominique Duchêne (President).

discussions between myself, Ole Bjerrum, Hans Lindén, and the entire Executive Committee, we were able to present the third EUFEPS Strategic Plan (2002-2006) which was adopted by the Council in October 2002. This strategic plan represents a real evolution in EUFEPS. The first two plans aimed at creating and strengthening EUFEPS so that it reached European and wider recognition. With these objectives achieved, the new plan emphasises the importance of broad collaboration, co-ordination and co-operation with our members, Member Societies, and all European scientific organisations (including drug regulatory agencies and pharmaceutical companies). We have the permanent objective of advancing the pharmaceutical sciences and innovative drug research in Europe. Collaboration at the world level with FDA, AAPS, FIP is also analysed. New activities are defined such as editing activities (scientific book series), or the organisation of a completely new type of scientific event: a Fair of Pharmaceutical Sciences, which is

intended for 2005 in Nice, France.

The strategic plan very naturally leads us to consider what new activities EUFEPS will have next year.

#### *What is planned for 2003?*

We are setting up a Committee on Academic Relations, which will increase and facilitate our collaboration with academia, and create events and projects attracting academic participation.

On 17-18 February 2003, in Basel, we will have our first "exchange" event with AAPS: A workshop on "Assuring Quality and Performance of Sustained and Controlled Release Parenterals". This exchange series comprises importing into Europe successful AAPS events, to be organised by EUFEPS, and in turn, exporting successful EUFEPS events to be organised in USA by AAPS. The event we will export is the Strasbourg 2001 Conference on "Rational Design of Drug Materials and Drug Delivery Systems".

The Strasbourg 2001 Conference could also be seen as the precursor of a new series of EUFEPS Conference on "Optimising Drug Delivery and Formulation". The series will start with "New Challenges in Drug Delivery", in September 2003, chaired by Patrick Couvreur, Elias Fattal and Per Artursson. It will take place in Paris/Versailles.

In May, we will have our second meeting with the European Association of Faculties of Pharmacy (EAFP) and the European Pharmaceutical Students' Association (EPSA), probably in Athens. One of our objectives is to map the Drug Research and Development post-graduate studies in Europe.

Of course our well-established events, such as the Optimising Drug Development Conference, will continue, as usual, in Basel in December.

In 2003, we will organise a number of meetings to prepare the 2005 Fair of Pharmaceutical Sciences, on which 15 to 20 European scientific societies are already working with EUFEPS. Let me remind you that the Fair brings together during the same week (12 - 17 June 2005), in the same place (Nice Acropolis conference centre), EUFEPS member societies and European scientific societies to organise, on the platform of EUFEPS, meetings, congresses as well as symposia, dealing with the different pharmaceutical sciences or disciplines.

As you see 2003 will be not only a busy year, but also a very scientifically exciting year.



*Professor  
Dominique Duchêne  
EUFEPS  
President*

## News of EJPS

European Journal of Pharmaceutical Sciences (EJPS) now has an Impact Factor of 1.8; an impressive increase over the factor of 1.2 in 2000. There are many benefits to publishing in the journal. EJPS is available online through ScienceDirect several weeks before publication in print. You can track citations of your own article via e-mail through ScienceDirect.

EJPS has an average publication time of 13 weeks from acceptance to print. And, with ContentsDirect, you are automatically alerted to contents of the current issues in advance (register at [www.elsevier.com/locate/contentsdirect](http://www.elsevier.com/locate/contentsdirect))

If you are interested in submitting a relevant paper to the official journal of the European Federation for Pharmaceutical Sciences, please go to <http://authors.elsevier.com/gfa/ejps>.

## European Journal of Pharmaceutical Sciences seeks Drug Regulatory Affairs Experts

Are you able to bring the latest developments in European Regulatory Affairs to the attention of the Journal readership? EJPS is seeking two or more volunteer reviewers who can scan relevant web-sites and interpret the new information about pharmaceutical regulation from the European Medicines Evaluation Agency (EMEA) and the European Commission. Clear concise summaries with accurate references are required in English 3 to 4 times a year.

Places on the Journal Editorial Board may be available to appropriate individuals.

If you are interested in this opportunity to contribute to New Safe Medicines, please contact the Journal Editor, Professor Arto Urtti at [arto.urtti@uku.fi](mailto:arto.urtti@uku.fi) immediately



Arvid Carlsson, Hans Wigzell and Klaus Müller, Opening Speakers of the EUFEPS 2002 Congress

## Congress Report

### *7<sup>th</sup> EUFEPS Congress of Pharmaceutical Sciences, Stockholm, Sweden*

# *The path to New Safe Medicines*

*It is difficult to imagine circumstances in which any group will willingly give back part of its approved budget. Yet that is exactly what EMEA (The European Medicines Evaluation Agency) has done recently. Disturbingly, the Agency finds that the anticipated number of New Drug Applications (NDA) has not been forthcoming. This is a stark illustration of the apparent downturn in productivity in pharmaceutical R&D.*

Two years ago, Professor Ole Bjerrum (now Professor at the Royal Danish School of Pharmacy) enthusiastically took it upon himself to promote the concept of “New Safe Medicines Faster”. Largely through his unwavering support, NSMF became the theme of the seventh EUFEPS Congress in Stockholm. The ultimate goal of NSMF is to serve patients with medicines that safely meet their needs. A subsidiary goal will be to reverse the trend of dwindling productivity that the EMEA situation has so starkly highlighted. The EUFEPS Congress provided a forum where scientists could meet, discuss these two objectives and debate the so-called ‘crisis for big pharma’.

The meeting was held in the splendid Stockholm Exhibition Centre and attracted some 650 pharmaceutical scientists from industry, academia and drug regulators. The delegates were drawn from 38 countries (including many from outside Europe) with about 50% coming from industry. Two high-ranking officials from the European Com-

mission also attended. A small exhibition was set up in the same hall as the impressive display of over 200 posters from both industry and academia.

The opening plenary session provided an interesting contrast between the approach to CNS drug discovery described by Professor Arvid Carlsson – intuitive, experience-based and pragmatic and the Roche approach described by Dr Klaus Müller who stressed the need for ever increasing technological innovation in drug discovery. The meeting felt that both approaches had merit and were perhaps more complementary than divergent. Carlsson’s examples of partial agonists showed that the most potent drug is not necessarily the best drug; other factors may be as important as potency. Professor Hans Wigzell – head of the Karolinska Institute – gave a lively presentation on the activity of his institute whose 3000 scientists are undertaking no fewer than 11,000 projects.

To me it is always a benchmark of the quality of a conference if I have difficulty in

choosing between several good concurrent tracks. By this criterion, EUFEPS 2002 was high quality. I shall pick out a few highlights from the sessions I attended. There were 3 full sessions; plenary and speakers, on excipients. Although this was clearly an important part of the congress, I can only report that I missed presentations on:

- new excipients – inulin and cyclodextrin derivatives
- safety aspects – gelatine, residual solvents and metal catalyst residues
- regulatory aspects – regulatory, legal and industrial perspectives.

These sessions were sponsored by IPEC (International Pharmaceutical Excipients Council) whose newsletter and website I commend to interested readers ([www.ipec.org.europe.htm](http://www.ipec.org.europe.htm))

#### *Plenary Presentations*

Dr Theo Güntert from Hoffman La Roche gave a very good presentation on the importance of “developability” in the selection of candidates to go forward to full development. He emphasised the need for early testing to be discriminating while predictive of potential future problems, especially with respect

to specific organ toxicity in humans. He recommended focus on absorption, metabolic stability, interaction potential and tissue penetration as important predictors of future problems. He also liked the idea of human testing at very low doses (microdosing) under a screening IND.

The rapidly evolving topic of computer simulation of pharmacokinetics (PK), of pharmacodynamics (PD) and of clinical trials was a theme that ran through the congress. Colin Pillai – a colleague of Jean Louis Steimer at Novartis – noted that clinical trial modelling can be an extension of the well established techniques of PK modelling into difficult areas such as cancer and paediatric studies. The FDA is not only accepting modelling and simulation (M&S) as a tool at early stages but is using M&S techniques itself to evaluate NDAs. M&S clearly can assist the NSMF concept.

In a dramatically contrasting plenary lecture, Dr Arne Brodin discussed how formulation development of two old products, Xylocaine and Metoprolol has proceeded in Astra and subsequently AstraZeneca. He told a beguiling story of the search for new formulations to meet new needs. Although

lidocaine was discovered in the late '30s, AstraZeneca has submitted a proprietary formulation NDA as recently as June 2002. Again, new medicines benefit of consumer and company alike.

In the next plenary lecture, Professor Jan Lundberg, Head of Discovery Research described how AstraZeneca is facing up to the challenge of increasing its productivity. His opinion was that an economy of scale is achieved in large corporations in that they can balance risks by having a wider and deeper portfolio of projects than smaller companies. He also said that prediction of toxicity and safety is the biggest challenge and a key area in which to gain strategic advantage.

Carl Johan Dalsgaard is a partner in one of Europe's biggest specialist healthcare venture funds. His commercial view was that only innovative biotech companies offer hope for the future. He claimed that they will be the great value creators of the future and feed big pharma who will increasingly become, in his words, contract development organisations for the biotechs.

#### Speaker Sessions

The standard of the speaker sessions was in

general very high. The presentations were pitched at the right level, clearly illustrated and well delivered, considering that the majority of presenters were not using their first language.

Franck Leveiller and Ruth Duncan addressed how covalently bound polymers can aid drug delivery and produce in one sense "nanomedicines" – contrasting to what Dr Müller said in his plenary that current drug discovery is largely on a micro-scale. Dennis Smith from Pfizer can always be relied on to give an interesting and challenging presentation. He backed up the call for more *in silico* modelling especially in the ADME area.

Following this lead Dr Schaeffer from Boehringer Ingelheim emphasised that good modelling can only come collaboration between chemists, clinical triallists, statisticians and particularly physicians.

Andy Grieve from Pfizer addressed the concept of adaptive design in clinical trials. In this scenario, a computer assigns doses to patients based on the response of the previous patients – the computer unblinds the study while the study remains double blind to the supervising human staff. Peter Milli-

## SCRIP Daily News ALERT

### Start your working day armed with the world's top pharmaceutical news stories

#### What is SCRIP Daily News Alert and what does it give me?

The unique executive briefing service that brings you 20-25 of the key stories by e-mail or fax, direct from the leading pharmaceutical business newsletter *Scrup World Pharmaceutical News*. The two-page bulletin is sent to your designated e-mail address or fax machine every working day – that's 250 issues a year. You can also request the *full text* of any news item, and it will be delivered within minutes.

#### How does it work?

Take out an annual subscription to *SCRIP Daily News Alert* and you'll receive the e-mailed or faxed bulletins automatically. To request your full-text article (at a very reasonable cost per article), simply reply to your e-mail or phone the automated fax-on-demand service.



#### What if I am away from my office on business?

No problem, you can request that your contact details to receive the bulletin and full-text articles are changed, so you receive the full benefits of the *Alert* wherever you are in the world.

#### What if I miss an important article when it first appears?

The full-text article service is available 24 hours a day, 365 days a year. If something has slipped past you, you can request the full text of any article published over the previous 5 calendar months. The *SCRIP Daily News Alert* helpdesk can also provide older articles for your reference.

#### Who uses SCRIP Daily News Alert?

Many of the world's leading pharmaceutical professionals involved in R&D, licensing, regulatory affairs, manufacturing and marketing. Others are in consultancy, investment and financial analysis, corporate finance, competitive intelligence, acquisitions and business development.

**TRY IT FOR YOURSELF! Call, fax or e-mail NOW for a FREE 5 day trial.**

Tel: +44 (0)20 8332 4669 Fax: +44 (0)20 8332 8997 E-mail: [scrip.alert@pjbpubs.com](mailto:scrip.alert@pjbpubs.com)

Zoë Dann, *SCRIP Daily News Alert* 18/20 Hill Rise, Richmond, Surrey TW10 6UA, UK.

gan, also from Pfizer, showed how modelling can reduce patient numbers while increasing statistical power.

A further speaker session dealt with prediction of drug metabolism based on early studies. The challenge of this area, exemplified in the talk by Nico Vermeulen from Leiden, remains the prediction of turnover rates even if CYP450 affinities can be predicted with reasonable accuracy.

In his discussion of proof of concept studies, Rainer Schulz of Quintiles drew distinction between surrogate markers (well validated clinical measurements) and biomarkers (less validated ones). He drew a further distinction between clinical evidence of concept, of which we get much, and clinical proof of concept, which is rare.

Richard Jones from Johnson&Johnson commented that much of today's early drug discovery is identifying drug candidates that are not drug-like. He felt the primary challenge for drug discovery will be the integration of new knowledge with new technologies.

Adam Cohen (from the Centre for Human Drug Research, Leiden) gave a lively, if not very encouraging, explanation of the lack of innovation in big pharma. His solutions include increasing Research, especially into pathogenesis and biomarkers, while decreasing Development by killing drugs earlier.

The final speaker session addressed human and animal models in CNS disease.

Professor Berend Olivier described his mutant, anxious mouse while Søren Sindrup discussed how human neuropathic pain models can distinguish codeine from imipramine.

The Afternoon Specials sessions, designed to widen the horizons of the more bench- and office-based drug development scientists, dealt with finance, ethics, EU expansion and importantly the EU 6th Framework Program. A separate report will be issued for the European Commission who sponsored these interesting sessions.

### Conclusions

Professor Bjerrum summarised the meeting. Overall he thought that the NSMF initiative had been well addressed by the conference. A good balance had been achieved, but there may have been too many parallel sessions. The Afternoon Specials seemed to have been very successful and allowed delegate-speaker interactions in a novel way, to the benefit of both. The President of EUFEPS, Professor Dominique Duchêne announced that Brussels will be the site of the eighth Congress in 2004. I urge those who did not attend this



*Delegates attending one of the Afternoon Specials of the EUFEPS 2002 Congress in Stockholm. Eleven Specials, all sponsored by the European Commission, attracted a substantial number of the Congress delegates, on the first two days of the Congress.*

excellent Congress to look out for announcements of the eighth meeting and to book places!

*Graham Hughes*

## The Pharmacopoeial column

*When I saw my first contribution on Pharmacopoeial topics in the September 2002 EUFEPS Newsletter, I had a surprise: between my good intentions, a review of my dutch/english writing by our Editor and the final printing something magic happened and the European Pharmacopoeia became the oldest!*

To avoid making enemies, here are some facts to put the record straight:

- the United States Pharmacopoeia Convention started in 1820, and the 2005 Convention will be celebrating 185 years of voluntary efforts provided by medical doctors, pharmacists, scientists involved in pharmaceutical sciences as well as associated health professionals. USP/NF is the oldest of the three "big" regional Pharmacopoeias.
- the Japanese Pharmacopoeia is second. Two Dutch pharmacists, Geerts and Dwar, in service of the Japanese government compiled, on request of that government, a Pharmacopoeia Japonica based on the Pharmacopoeia Nederlandica. Presented in Dutch,

it was ready for translation into Japanese in 1877. A copy of this draft is kept in the Naito Museum for the History of Pharmacy close to Tokyo. For unknown reasons, this version was never published.

A new pharmacopoeia committee was appointed in December 1880; it was composed of five European and nine Japanese members. Among the Europeans there were three Dutch scientists: Johan Eijkman (his brother Christiaan received the Nobel prize for medicine for work in the field of physiology in 1929; he discovered the source of beri-beri, a tropical disease) professor at Tokyo University, Antonie Geerts "Foreign Director" of the Governmental Laboratory

at Yokohama and the medical doctor T.W. Beukema working at the Yokohama Hospital. Dr. Nagayo, president of the Central Board of Health, was chairman.

It should be known that all professors of the medical faculty of Tokyo University were German at that time except for Eijkman. It is no surprise that the Pharmacopoeia Germanica was chosen as starting point for the Pharmacopoeia Japonica Editio Prima. In 1886 the first, and in 1891, the second edition were published as prepared by this international committee. Later on, the committee became fully Japanese.

- the youngest one, but based on some very old national ones and solid cooperation, is the European Pharmacopoeia. Started in 1964, it is now in its 4<sup>th</sup> Edition with Supplements and will be celebrating 40 years and the 5<sup>th</sup> Edition in 2004.

*Henk J. De Jong*

## Plant Extracts from Hungary

The Research Institute for Medicinal Plants has collected and botanically identified more than 700 plants from the Carpathian basin in Hungary. These plants are not used in the medicine and are not regarded as medicinal plants. From this collection about 2000 extracts were prepared under various conditions of polarity. Now we have about 1200 purified extracts (each are 50 mg in powder form), which are characterized with HPLC or with TLC/densitometry. In the frame of a research collaboration, we are looking for

partners who may be interested to buy these extracts for high throughput screening. In case of positive responses, we could isolate pure compounds. Please contact:

*Prof. Dr. Dr. Sz. Nyiredy, D. Sc.*  
*General Director, Chairman of the Board*  
*Research Institute for Medicinal Plants*  
*H-2011 Budakalász, P.O. Box 11, Hungary*  
*Phone: (36) (26) 340 203, (36) (26) 344 042*  
*Fax: (36) (26) 340 426*  
*E-mail: rimp@axelero.hu*

## Pharmaceutical Scientists

If you have recently received a new appointment, or won an award or joined a task force of interest, please let me know so that your news can be included in a "Scientists" section of a future issue of the EUFEPS Newsletter.

*Peter Williams*  
*Johnson & Johnson PRD*  
*PO Box 679, Haw Lane*  
*Saunderton, HP14 4GT, UK*  
*Fax. +44 (0)1494 569 580*  
*e-mail: pwilliams@prdgb.jnj.com*

## Elections to the EUFEPS Executive Committee

*At the EUFEPS Council meeting on October 20<sup>th</sup>, four new members were elected to the Executive Committee and Professor Paoletti was re-elected.*

Professor *Conny Bogentoft* is the Managing Director of Karolinska Innovation AB in Sweden. After post-doctoral research in Chemistry, he worked in the development of many pharmaceutical products and drug delivery systems with various Swedish companies. He served as the chairman of the Swedish Pharmaceutical Society, 1994 – 2002.

Dr *Altan Demirdere* is Country President and Head of Pharma for Novartis in Turkey. After graduating in Pharmacy from Istanbul University, he received a Ph.D in Pharmaceutical Technology in Basel, Switzerland. Since 1984, Dr Demirdere has held positions of increasing responsibility in Sales and Marketing for Sandoz and then Novartis, in Central and Eastern Europe.

Professor *Christian Noe* is Ordinarius (full professor) of Pharmaceutical (Medicinal) Chemistry and Dean of the Faculty of Natural Sciences and Mathematics of the University of Vienna, Austria. (In addition, he is Chairman of the Faculty Committee for Pharmacy). After graduating in chemistry and pharmacy, he has researched extensively in pharmaceutical chemistry in both Austria and Germany. Currently Professor Noe's research interests include new CNS drugs, 'antisense' oligonucleotides, proteomics and glycoproteins.

Professor *Aleš Mrhar* is the Head of the Chair Biopharmaceutics and Pharmacokinetics, in the Faculty of Pharmacy, Ljubljana, Slovenia. After graduating in pharmacy, Prof. Mrhar conducted post-doctoral research in the USA and Italy. His current research interests include *in vitro* and *in vivo* tests in biopharmaceutics, pharmacokinetics and drug delivery. In 1996, Professor

Mrhar was elected president of the section of Pharmaceutical Sciences of the Slovenian Pharmaceutical Society.

Professor *Rodolfo Paoletti* is Professor and Chairman of Pharmacology in the School of Pharmaceutical Sciences at the University of Milan, Italy. After graduating in medicine, Professor Paoletti researched in the UK and the USA. He has held his current appointment since 1970. His major research interests are cholesterol synthesis and metabolism as well as the role of cholesterol and lipoproteins in physiology and pathophysiology. During his career he has received five honorary degrees in Medicine and in Pharmacy and he has been President of the International Atherosclerosis Society and of the European Society of Pharmacology. Presently Professor Paoletti is president of the Italian Society of Pharmaceutical Sciences.



*Professor Conny Bogentoft*



*Dr Altan Demirdere*



*Professor Christian Noe*



*Professor Aleš Mrhar*



*Professor Rodolfo Paoletti*





**C A L E N D A R**

**APS Inhalation 2003**

*February 3-4, 2003, London, UK*  
**Contact:** Academy of Pharmaceutical Sciences,  
840 Melton Road, Thurmaston, Leicester  
LE4 8BN, UK, Fax +44 116 2640141  
Email [apsgb@associationhq.org.uk](mailto:apsgb@associationhq.org.uk)  
[www.apsgb.org](http://www.apsgb.org)

\*

**Properties and Processing  
of Pharmaceutical Powders**

*February 3-5, 2003, London, UK*  
**Contact:** European Continuing Education  
College, 24 Menlove Gardens North, Liverpool  
L18 2EJ, UK, Fax +44 151 7371070  
Email [register@ecec.co.uk](mailto:register@ecec.co.uk), [www.ecec.co.uk](http://www.ecec.co.uk)

\*

**Groundbreaking Workshop on Assuring  
Quality and Performance of Sustained and  
Controlled Release Parenterals**

*February 17-18, 2003  
Basel, Switzerland*  
**Contact:** EUFEPS Secretariat  
P.O. Box 1136, SE-111 81 Stockholm, Sweden  
Fax +46 8 4113217, Email [secretariat@eufeps.org](mailto:secretariat@eufeps.org)  
[www.eufeps.org](http://www.eufeps.org)

\*

**APS Protein Delivery 2003**

*February 19-20, 2003, London, UK*  
**Contact:** Academy of Pharmaceutical Sciences  
840 Melton Road, Thurmaston, Leicester  
LE4 8BN, UK, Fax +44 116 2640141  
Email [apsgb@associationhq.org.uk](mailto:apsgb@associationhq.org.uk)  
[www.apsgb.org](http://www.apsgb.org)

\*

**Stabilization and Formulation  
of Therapeutic Proteins and Peptides**

*March, 25-26, 2003, Stockholm, Sweden*  
**Contact:** Maria Norrlander, Swedish Academy  
of Pharmaceutical Training  
P.O. Box 1136, SE-111 81 Stockholm, Sweden  
Fax +46 8 205511  
Email [maria.norrlander@swepharm.se](mailto:maria.norrlander@swepharm.se)  
[www.swepharm.se](http://www.swepharm.se)

**British Toxicology Society Annual Congress**

*March 30- April 2, 2003, Edinburgh, Scotland*  
**Contact:** BTS Administrative Office  
P.O. Box 249, Macclesfield, SK11 6FT, UK  
Fax +44 1625 267879  
Email [btsregistration@resources.demon.co.uk](mailto:btsregistration@resources.demon.co.uk)

\*

**The New European Note for Guidance  
on Bioavailability and Bioequivalence.  
A new Experience and a Step Towards  
Harmonization**

*April 12-13, 2003, Lisbon, Portugal*  
**Contact:** Portuguese Society for Pharmaceutical  
Sciences, Av. Das Forcas Armadas  
PT-1600-083 Lisbon, Portugal  
Fax +351 21 7946400, Email [spcf@ff.ul.pt](mailto:spcf@ff.ul.pt)

\*

**1<sup>st</sup> Congress of the Portuguese Society for  
Pharmaceutical Sciences (SPCF)**

*April 13-16, 2003, Lisbon, Portugal*  
**Contact:** Portuguese Society for Pharmaceutical  
Sciences, Av. Das Forcas Armadas  
PT-1600-083 Lisbon, Portugal  
Fax +351 21 7946400, Email [spcf@ff.ul.pt](mailto:spcf@ff.ul.pt)

\*

**26<sup>th</sup> EPSA Annual Congress**

*April 21-27, 2003, Portoroz, Slovenia*  
**Contact:** Student's Section of Slovenian  
Pharmaceutical Society (SSSFD)  
Askerceva 7, SI-1000 Ljubljana, Slovenia  
Fax +386 1 4340745  
Email [epsa2003@yahoo.com](mailto:epsa2003@yahoo.com)  
[www.epsa2003.net](http://www.epsa2003.net)

\*

**CSPS 6<sup>th</sup> Annual Symposium on  
Pharmaceutical Sciences: The Science of Drug  
Discovery & Development**

*May 28-31, 2003, Montreal, Canada*  
**Contact:** Canadian Society for Pharmaceutical  
Sciences, 3118 Dentistry/Pharma Centre  
University of Alberta, Campus, Edmonton  
Alberta, Canada T6G 2N8, Fax +1 780 4920951  
[www.ualberta.ca/csp/symposium2003](http://www.ualberta.ca/csp/symposium2003)

**Performing Clinical Trials of Cell Therapy**

*June 16 or 17, 2003 (preliminary)  
Copenhagen, Denmark*  
**Contact:** EUFEPS Secretariat  
P.O. Box 1136, SE-111 81 Stockholm, Sweden  
Fax +46 8 4113217, Email [secretariat@eufeps.org](mailto:secretariat@eufeps.org)  
[www.eufeps.org](http://www.eufeps.org)

\*

**Basic Pharmacokinetics:  
A one week workshop**

*July 6-11, 2003, Arosa, Switzerland*  
**Contact:** Susan Huzar, School of Pharmacy  
University of Manchester  
Manchester M13 9PL, UK  
Email [susan.huzar@man.ac.uk](mailto:susan.huzar@man.ac.uk)  
[www.pharmacy.man.ac.uk](http://www.pharmacy.man.ac.uk)

\*

**9<sup>th</sup> International Congress  
of the European Association for Veterinary  
Pharmacology and Toxicology**

*July 13-18, 2003, Lisboa, Portugal*  
**Contact:** Prof. Eduardo Marques Fontes  
Faculdade de Medicina Veterinária, Seccao de  
Farmacologia e Toxicologia, Rua Prof. Cid dos  
Santos, Polo Universitário do Alto da Ajuda  
PT-1300-477 Lisboa, Portugal  
Fax +351 213 652898  
Email [eavpt2003@fmv.utl.pt](mailto:eavpt2003@fmv.utl.pt)  
[www.fmv.utl.pt/eavpt2003/congress.htm](http://www.fmv.utl.pt/eavpt2003/congress.htm)

\*

**EUROTOX 2003**

*September 28 – October 1, 2003, Florence, Italy*  
**Contact:** Cristina Bolsi or Emanuela Folco  
Fondazione Giovanni Lorenzini, Via A. Appiani 7  
IT-20121 Milan, Italy, Fax +39 2 29007018  
Email [info@lorenzinifoundation.org](mailto:info@lorenzinifoundation.org)  
or [info@eurotox2003.org](mailto:info@eurotox2003.org)

*1st EUFEPS Conference on*

**Optimising Drug Delivery and Formulation:  
New Challenges in Drug Delivery**

*September 29 - October 1 • 2003 • Paris/Versailles • France*

*Organised with the Association de Pharmacie Galénique Industrielle APGI*

**Key Topics and Issues**

- How to find the best targets for drug delivery?
- How will pharmacogenomics contribute to new drug delivery systems?
- How can biological barriers be overcome?
- How can physico-chemistry help to conceive new drug delivery systems?
- Are current Drug Carriers a shot in the dark? If so, what could be the next generation?
- How to lead clinical studies with new delivery systems?
- How will new delivery systems be examined by regulatory agencies?

**Breakout Sessions**

There will be a number of breakout sessions.

Sample topics for discussion are:

- How molecular modelling can help drug delivery
- Ideal biological targets for drug targeting
- Toxicological aspects for drug delivery and targeting
- Pharmacogenomics as a tool for drug delivery

**Posters and Exhibition**

Poster abstracts are welcome. For submission deadline and editorial instructions, see the Second Announcement of this Conference, to be circulated in spring 2003. Companies are invited to exhibit at the Conference.

**Additional Information**

EUFEPS Online and the APGI Website, as well as the EUFEPS or APGI Secretariats:

EUFEPS Secretariat  
PO Box 1136  
SE-111 81 Stockholm, Sweden  
Tel +46 8 7235000  
Fax +46 8 4113217  
Email: [secretariat@eufeps.org](mailto:secretariat@eufeps.org)  
EUFEPS Online [www.eufeps.org](http://www.eufeps.org)

APGI Secretariat  
5 Rue Jean Baptiste Clément  
FR-92296 Châtenay-Malabry Cedex France  
Tel +33 1 46602510  
Fax +33 1 46835308  
Email: [apgi.apgi@cep.u-psud.fr](mailto:apgi.apgi@cep.u-psud.fr)  
APGI Website: [www.apgi.org](http://www.apgi.org)