Federation of European Societies on Trace Elements and Minerals

Second International Symposium on Trace Elements and Minerals in Medicine and Biology

May, 13 - 15, 2004

GSF National Research Center for Environment and Health
Neuherberg - Munich

Fotos: C. Reiter and studio Hahn
The determination of trace elements has gained outstanding importance in the life sciences. Elements present even at minimal concentrations in biological and environmental matrices, in fact, can exert fundamental influence on vital functions proportionally to their amounts. It is also worth stressing in this context that new trace elements are being added to the list of those that are known or suspected to be essential.

In 2001 the first International FESTEM Symposium on Trace Elements and Minerals in Medicine and Biology had been organized by the Italian Trace Element Society (A.I.S.E.T.O.V.) in Venice. Now this conference series will be continued for the second time in Munich, together as a tandem with the Third International Conference on Trace Element Speciation in Biomedical, Nutritional and Environmental Sciences.

The 2nd FESTEM Symposium will provide a forum for exchange and discussion of information on the various scientific aspects of trace elements and minerals research. The Scientific Committee extends an invitation to all scientists involved and/or interested in Trace Element
and Mineral Analysis in Biology and Medicine. A major goal of the Conference is to facilitate discussions about all aspects of this field, including biological and clinical applications, matters such as molecular biology, diagnosis and recommended intakes, human and animal nutrition, supplementation and epidemiology.

The Conference Programme will comprise three days of oral presentations, posters and extended time for discussion. Oral presentations (invited or submitted) will be 30 or 15 minutes in duration including the specific discussion.

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**DATE AND VENUE**

The Second International FESTEM Symposium on Trace Elements and Minerals in Medicine and Biology will be held at the GSF National Research Center for Environment and Health on May, 13th - 15th, 2004.

This time the 2nd International FESTEM Symposium on Trace Elements and Minerals in Medicine and Biology directly will follow the Third International Conference on Trace Element Speciation in Biomedical, Nutritional and Environmental Sciences in May, 10th-13th 2004. Both conferences will be held as a tandem at the GSF National Research Center.

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**DEADLINE FOR CONTRIBUTIONS   HINTS FOR AUTHORS**

Abstracts of papers intended as contributions to the Conference must be submitted in English preferably by email to the Conference Chairman (subject “2nd FESTEM Symposium”) by

**January 15th, 2004.**

The abstracts must be typed double spaced and should not exceed one typewritten page. The abstracts will be subjected to reviewing for acceptance and for publication in the “Book of Abstracts”. Authors of submitted contributions will be informed about acceptance during February 2004.

The deadline for **Last Minute Posters** will be  
**April 15th, 2004.**
Authors of abstract contributions rated as very high quality by the scientific committee will be asked in due time to submit an extended abstract (2 pages after printing) at the latest during the Conference for publication in “Journal of Trace Elements in Medicine and Biology”.

CONTRIBUTION OF LECTURES OR POSTERS

PRESENTATION
Slides of the size 5 x 5 cm may be shown (double projection available). Overhead projection will be available. An electronically presentation via Powerpoint/Video projection is also possible. Datafiles must be available on disk or CD. Projection will only be possible from the provided computer at the conference. No own Notebooks are possible!

POSTER PRESENTATION
The "POSTER PRESENTATION" is planned in the “Seminar Room" of the “Biologikum" (Building No.: 35) opposite to the Auditorium. Please refer to the numbers of abstracts and poster board numbers. Poster boards are ca. 110 x 110 cm in size. Posters should be mounted during the whole conference.

The FESTEM Scientific Board will award prices for the three most innovative and well presented posters.

The Federation of European Societies on Trace Elements and Minerals will present the Gabriel Bertrand Medal for the second time for outstanding contributions in the field of trace elements and mineral research.
Preliminary Schedule at a Glance

Thursday May 13th, 2004 15:00 - 19:00 h
Friday May 14th, 2004 8:30 – 19:00 h
Saturday May 15th, 2004 8:30 – 16:00 h

Scientific Information and Contacts

Scientific Board:
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Local Organizer:
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Preliminary Programme: Topics

A. Analysis/Diagnosis
- Advances in trace element status determination
- Modern approaches of trace element analysis
- Multielement analysis, automation
- New biomarkers
- Quality control and assurance

B. Molecular biology: mechanisms and implications
- Intracellular signalling
- Membrane properties and intracellular transport processes
- Metallothioneins
- Micronutrient interactions
- Minerals/nutrient interactions
- Selenium/iodine interactions
- Selenoproteins
- Structural changes of biomolecules during pathological processes
- Trace elements and biological molecules: mutual influences
- Zinc fingers proteins
C. Physiological processes/healthy humans
   - Angiogenesis
   - Apoptosis
   - Childrens and adolescents: growth, development
   - Cognitive functions
   - Elderly and the aging process
   - Immune defence
   - Metabolic processes
   - Physical activity, sport medicine
   - Pregnancy and lactation
   - Redox balance/oxygen metabolism
   - Reproduction

D. Pathological processes/human diseases
   - Bone diseases
   - Cancer
   - Cardiovascular diseases
   - Diabetes
   - Genetic disorders (Wilson’s disease, hemochromatosis, Menkes disease, etc.)
   - Infections
   - Infectivity and host immunity
   - Macular degeneration
   - Neurological and neurodegenerative disorders
   - Oxidative stress

E. Epidemiology/Prevention/Intervention
   - Epidemiology in relation to disease states
   - European and international programs for health promotion
   - Intervention trials
   - Treatment of diseases

F. Nutrition
   - Artificial (enteral and parenteral) nutrition and formulas
   - Bioavailability
   - Dietary recommendations
   - Dietary supplements
   - Functional foods

G. Environment/Toxicology
   - Biomaterials: toxicological aspects and biological monitoring
   - Dental alloys
   - Environment
   - Genotoxicity
   - Heavy metals pollution
   - Resistance to chemotherapy
   - Toxicity of trace elements and minerals
H. Agriculture and animal sciences
- Deficiency diseases in animals
- Soil and culture fertilization
- Supplementation
- The soil-food chain

INVITED LECTURERS

Wolfgang MARET
Harvard Medical School, Center for Biochemical and Biophysical Sciences and Medicine, Cambridge, MA, 02139, USA

Hannelore DANIEL
Technical University of Munich, Institute for Nutritional Sciences, D-85350 Freising-Weihenstephan, Germany

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Conference Secretariat

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Booking information, reservation of hotel rooms and registration should be done preferrably before March, 1st 2004, directly at

http://www.gsf.de/wwwspec/geninfo.html

Accommodation

Rooms for congress participants are available at several hotels in Munich for reduced rates. Accommodation can be booked via the congress website or the enclosed registration form. Bus shuttles connecting these hotels with the GSF will be arranged. Further details will be available during the pre-registration (Icebreaker) or at the registration desk at GSF-Auditorium during the conference.
REGISTRATION INFORMATION

PARTICIPATION AND FEES
Participation in the Conference is open to all who are interested in trace elements and minerals. The registration fee covers attendance at the conference, the social events (icebreaker\(^1\) and Bavarian evening\(^2\)) and the “Book of Abstracts”.

\(^1\) voucher 10.-- € for icebreaker  \hspace{1cm} \(^2\) free for regular participants and FESTEM members

REGISTRATION FEE FOR PARTICIPANTS

- Regular participants:
  € 270.--(before March 1, 2004)
  or € 330.--(after this date)
- FESTEM members
  € 240.--(before March 1, 2004)
  or € 300.--(after this date)
- Students: € 90.--
- Day Ticket: € 90.--
- Combi-ticket 2. FESTEM + 3.Speciation: € 520.--

The registration desk is open on Thursday, May 13\(^{th}\), 2004 from 09:00 – 18:00 at GSF Auditorium and from 20:00 - 22:00 during the “Icebreaker” at the Hofbräuhaus and during the Conference at the GSF-Auditorium.

Third International Conference on Trace Element Speciation in Biomedical, Nutritional and Environmental Sciences,

May 10\(^{th}\)-13\(^{th}\), 2004

In the forefront of the Second FESTEM Symposium the International Conference on Trace Element Speciation in Biomedical, Nutritional and Environmental Sciences will be held (May 10\(^{th}\)-13\(^{th}\), 2004 at GSF). Information about topics, location, accommodation and contact to the local organizing committee is found on


or directly from bernhard.michalke@gsf.de
INDUSTRIAL EXHIBITION and SPONSORSHIPS

A small industrial exhibition is planned. Details are given on http://www.gsf.de/wwwspec/exhibit.htm

SOCIAL EVENTS

ICEBREAKER
Thursday, May 13th, 2004 from 20:00 - 22:00h at the Hofbräuhaus

BAVARIAN EVENING
Friday, May 14th, 2004 at 20:00h at the typical bavarian restaurant "Spöckmeier" in the historical city of Munich.

CITY Tour
Saturday, May 15th, 2004 16:00 – 17:30h
This guided city tour by bus will lead you to the most famous sights and places of Munich. Please note that a minimum number of participants is required! Tickets can be pre-booked within the registration or corresponding to availability on site at the registration desk.

Additional tourist activities in/around Munich after the conference may be booked. Detailed information will be given in due time on the web.

Full Information is available at the following sites:

Scientific information is given on http://www.festem.com/FESTEMcongress.html

Local and general information is given on http://www.gsf.de/wwwspec/geninfo.html

Registration and Hotel Reservation is possible on http://www.gsf.de/wwwspec/geninfo.html