



## **32<sup>th</sup> Annual Conference of the German Society for Minerals and Trace Minerals (GMS) in cooperation with the Federal Institute for Risk Assessment (BfR) 2016**

**13<sup>th</sup> to 15<sup>th</sup> October 2016**

General Topic: Risk Assessment of Minerals and Trace Elements

Location: Federal Institute for Risk Assessment (BfR)  
Diedersdorfer Weg 1, 12277 Berlin

Organization: Federal Institute for Risk Assessment  
Dr. Markus Spolders, Cynthia Newbigging  
Max-Dohrn-Str. 8-10, 10589 Berlin  
E-Mail: [markus.spolders@bfr.bund.de](mailto:markus.spolders@bfr.bund.de)

Program Committee: Bernhard Michalke                      Tanja Schwerdtle                      York Schmitt  
Esther Humann-Ziehank                      Kostja Renko                      Lutz Schomburg  
Dirk Schaumlöffel                      Anna Kipp                      Daniel Brugger

Homepage: <http://www.gmsev.de>

Conference fee:	until 15 <sup>th</sup> September 2016	after 16 <sup>th</sup> September 2016	
	Non GMS-members	100,- €	150,- €
	GMS-members	60,- €	100,- €
	Students	35,- €	60,- €

# PROGRAM

Thursday, 13<sup>th</sup> October 2016

- 18:30  
(free entrance)      **GMS-Evening lecture (in German)**  
Aluminium in Deos und Nanopartikel im Schuhspray – mediale  
Panikmache oder tatsächliche Gefahr?  
*PD Dr. Gaby-Fleur Böhl (Bundesinstitut für Risikobewertung)*
- 19:15  
(free entrance)      Selen und Krebsrisiko  
*Professor Dr. Lutz Schomburg (Charité Berlin)*

Friday, 14<sup>th</sup> October 2016

- 08:00                      Start Registration
- 09:00 - 09:30            Official Opening

<b>Toxicology and Risk Assessment of Trace Elements</b> Chair: Professor Dr. Tanja Schwerdtle
--

- 09:30 - 10:00            Risk assessment of inorganic arsenic in food  
*Dr. Ulrike Pabel (Federal Institute for Risk Assessment)*
- 10:00 - 10:30            Aluminium and Alzheimer's disease  
*Professor Dr. Chris Exley, Keele University*
- 10:30 - 11:00            Activities of risk management on the example of mercury  
*Dr. Frank Swartenbroux, European Commission*
- 11:00 - 11:30            **Coffee break**
- 11:30 - 11:50            Effects of arsenolipids on the blood-liquor and blood-brain  
barrier  
*Sandra M. Müller, F. Ebert, J. Bornhorst, H.J. Galla, K.A.  
Francesconi, T. Schwerdtle*
- 11:50 - 12:10            Analysis of titanium in human jawbones with dental implants  
*F.X. Reichl, X. He, S. Milz, M. Graw, R. Hickel, C. Högg, B.  
Michalke*
- 12:10 - 12:30            Increased Mg serum level - is it a risk factor for sudden hearing  
loss?  
*O. Micke, K. Kisters, J. Büntzel*
- 12:30 - 13:30            **Lunch in the BfR canteen**

## Trace elements and Bio-markers

Chair: Dr. Dirk Schaumlöffel

13:30 - 14:00	Species analytic of selenium <i>Professor Dr. Bernhard Michalke (Helmholtz Zentrum München)</i>
14:00 - 14:30	Protein based bio-markers for selenium status <i>Dr. Kostja Renko (Charité Berlin)</i>
14:30 - 15:00	Lithium and neurological diseases <i>Professor Dr. Jutta E. Schöpfer (LMU München)</i>
15:00 - 15:30	The relevance of the physico-chemical transformations of metallic nanoparticles for nanosafety - analytical aspects <i>Dr. Ivana Vinković Vrček (Institut für Medizinforschung, Zagreb)</i>
15:30 - 15:50	Examining small Se species in human cells regarding their cytotoxicity, bioavailability and metabolic transformations using (ID-HPLC-) ICP-QQQ-MS based methods T. Marschall, J. Bornhorst, D. Kuehnelt, T. Schwerdtle
15:50 - 16:10	Impact of methylselenic acid treatment on the modulation of MHC class I in tumors <i>C. Lennicke, J. Rahn, L.A. Wessjohann, R. Lichtenfels, B. Seliger</i>
16:10 - 16:30	Short poster presentation (2 minutes/poster)
16:30 - 17:00	<b>Coffee break</b>
16:30 - 18:00	GMS General Assembly
18:00	Presentation of Posters and Dinner

Saturday, 15th October 2016

## Animal Nutrition and Health aspects

Chair: Professor Dr. Wilhelm Windisch

09:00 - 09:30	Zinc and health of the intestine in swine <i>Professor Dr. Jürgen Zentek (FU Berlin)</i>
09:30 - 10:00	Copper and Animal health <i>Dr. Esther Humann-Ziehank (TiHo Hannover)</i>
10:00 - 10:30	Assessment of copper in feed and food <i>Dr. Markus Spolders (Federal Institute for Risk Assessment)</i>
10:30 - 11:00	<b>Coffee break</b>

- 11:00 - 11:20 Simultaneous redox speciation of iron, manganese and copper in cerebrospinal fluid  
*N. Solovyev, M. Vinceti, B. Michalke*
- 11:20 - 11:40 Effects of copper sulphate and dicopper oxide supplemented at high doses in diets for broilers  
*S. Durosoy, M. Hamdi, D. Solà-Oriol, R. Franco-Rosselló, A. Roméo, J.F. Perez*
- 11:40 - 12:15 **Closing Ceremony and Young Investigator Award**
- 12:30 Bus transfer to the ship
- 14:00 - 16:00 Ship tour on the river “spree” through the government quarter