

**BGA** **2010**  
BREATH GAS ANALYSIS  
GREIFSWALD

German-Austrian Workshop  
on Breath Gas Analysis

Greifswald, Germany

June 07 – 09, 2010



**INP**  
Greifswald



**Final Announcement**

Organized by the INP Greifswald and the ICM, University of Greifswald

[www.breath-gas-analysis.org](http://www.breath-gas-analysis.org)

## Dear Colleagues,

With this final announcement we would like to give you some more detailed information on the German-Austrian Workshop on Breath Gas Analysis (BGA 2010). The Workshop is organized by the INP Greifswald in cooperation with the Institute of Community Medicine (ICM), University of Greifswald. It will be held from Monday, June 7 – Wednesday, June 9, 2010 in the Alfried-Krupp-Wissenschaftskolleg in the centre of the old university town of Greifswald, Germany. The conference language is English, participants from other countries are welcome. The workshop is supported by the Sonderforschungsbereich Transregio 24.

## Scientific Program

The 1<sup>st</sup> German-Austrian Workshop on Breath Gas Analysis will be a meeting which brings together the leading specialists from Germany and Austria working in the emerging field of breath gas research and its application for clinical diagnosis and therapeutic monitoring. The scientific program of this conference covers all modern aspects of exhaled breath gas analysis ranging from sampling techniques, analytical approaches to pilot case studies. This workshop is an important and fruitful opportunity to meet and discuss with the other scientists working in this field.

Five invited speakers have agreed to present their recent work at this meeting:

- Prof. Anton Amann (Innsbruck, Austria)
- Prof. Henry Völzke (Greifswald, Germany)
- Dr. Jochen Schubert (Rostock, Germany)
- Prof. Norman Ratcliffe (Bristol, UK)
- Prof. Terence Risby (Manchester, MD, USA)

The meeting will take place over three days with sessions of talks before and after lunch and a poster session with industrial exhibition on Monday, June 7 in the afternoon. Tuesday afternoon (June 8) is reserved for a meeting excursion.

The workshop schedule starts with the registration beginning at 5:00 p.m. on Sunday, June 6 in the Alfried-Krupp-Kolleg and ends at 4:00 p.m. on Wednesday, June 9.

### Publication of workshop proceedings

It is planned to publish citable Workshop proceedings in an issue of "The Journal of Breath Research". All participants are invited to extend their abstracts to a full paper of **at least 4 pages**. Information on paper format and details on the submission can be found at the author guidelines of "The Journal of Breath Research".

### The paper submission deadline is October 1<sup>st</sup>, 2010.

In order to publish an article in the proceedings it is necessary for at least one of the authors to be a registered and paying participant of the workshop.

## » Registration

Participants of the BGA 2010 workshop should register at the Alfried-Krupp-Kolleg on Sunday, June 6 between 5:00 p.m. and 6:30 p.m. The workshop will start with a welcome reception in the historical brewery cellar “Alter Fritz” at the main town square on Sunday, June 6 at 7:00 p.m. It will be possible to register at the welcome reception and on Monday morning as well.

## » Events

The BGA 2010 workshop will start on Sunday evening, June 6 at 7:00 p.m. with a welcome reception in the restaurant “Alter Fritz” at the main town square. Monday evening you can participate in a guided tour through the city of Greifswald. Tuesday afternoon is reserved for the workshop excursion giving ample opportunity to communicate with the other participants. We organize a bus trip to the nearby Hanse-city of Stralsund and to the “Ozeaneum” in the scenic harbour of Stralsund. The way through the aquaria and exhibitions of the Ozeaneum invites to a journey from the quay wall of Stralsund’s harbor, crossing the North Sea on the way up to the North Polar Sea. A guided tour through the Ozeaneum will cover the highlights of this newly build attraction on the Baltic Sea.

A meeting dinner is planned for Tuesday evening in the restaurant Le Croy (Rakower Straße 9, near the main town square).

## » Catering and social program

The registration fee includes all food and drinks at the welcome reception on Monday, the conference dinner on Tuesday, all workshop breaks and buffet lunches. Also the guided city tour and the excursion to the Ozeaneum in Stralsund are included.

## » Venues

The BGA 2010 Workshop will be held in the Alfried-Krupp-Kolleg situated in the heart of the historical city centre of Greifswald. The conference site is about 10...15 minutes on foot from the main railway station and from most of the hotels in the city centre and in easy walking distance (3 minutes) from the main town square. The address is:

Stiftung Alfried Krupp Kolleg Greifswald  
Martin-Luther-Straße 14  
17489 Greifswald // Germany  
<http://www.wiko-greifswald.de/>



## Final Schedule

	Sunday, June 6th, 2010	Monday, June 7th, 2010	Tuesday, June 8th, 2010	Wednesday, June 9th, 2010	
8:30 a.m.	arrival	registration / opening	J. Schubert: New biomarkers in intensive care – role of VOCs in exhaled breath of the critically ill	N. Ratcliffe: An overview of methods for the analysis of volatiles from urine and stool	
9:00 a.m.		T.H. Risby: Current status of clinical breath analysis	K. Heyne: Quantitative determination of the patients liver capacity with a bedside breath-test	Thomas Kocher: Reasons of oral halitosis - an overview	
9:15 a.m.		J. King: Physiological modeling of VOC exhalation kinetics	J.A. Nwaboh: Reflections on laser-spectrometric breath gas analysis: concepts related to metrology	U. Tisch: A NanoMedical artificial olfactory system for detecting volatile biomarkers of lung and breast cancers	
9:45 a.m.		coffee break	coffee break	coffee break	
10:15 a.m.		V. Ruzsanyi: BreathSpec: just exhale...	F. M. Schmidt: Detection of C <sub>2</sub> H <sub>2</sub> in breath by cavity ring-down spectroscopy	W. Vautz: Rapid diagnosis in nephrology using Ion mobility spectrometry	
10:45 a.m.		M. Godejohann: Latest developments in quantum cascade lasers and their impact on breath gas analysis	J. Herbig: New breath markers for lung cancer	T. Perl: Rapid and non-invasive quantification of serum propofol in human breath using Ion mobility spectrometry	
11:15 a.m.		D. Hein: NeedleTrap (NT) – A new analytical tool for trace analysis of organic compounds in breath samples	B. Bödecker: Breath discovery based on ion mobility spectrometry and classification and differentiation models for lung diseases	W. Szymczak: Search for true VOCs of breath gas by head space analysis in mice under regular housing conditions at the german mouse clinic using hs-PTR-MS	
11:45 a.m.		lunch break	lunch break	lunch break	
12:15 p.m.		A. Amann: Volatile compounds in the human metabolism	industrial exhibition	break	H. Völzke: Breath gas analysis in population-based research
1:15 p.m.		E. Magori: Fractional exhaled nitric oxide measurement with a handheld device		excursion (Ozeaneum) 1:30 p.m. - departure Greifswald 2:15 p.m. - arrival Stralsund 2:30 p.m. - Ozeaneum 5:00 p.m. - break 5:30 p.m. - departure Stralsund 6:15 p.m. - arrival Greifswald	P. Reinhold: Chronic intestinal infection: discrimination via exhaled breath analysis using differential Ion mobility spectrometry (dms)
2:00 p.m.		K. Wex: Breath analysis with electrochemical sensors			Ch. Oeser: Discriminating NSCLC from COPD using patterns derived from an electronic nose
2:30 p.m.		B. Koch: The relevance of breath analysis in the field of pneumology			T. Smith: From breath research to end user
3:00 p.m.		coffee break			coffee break
3:30 p.m.		poster session			
3:30 p.m.	registration (Alfried-Krupp-Kolleg)	break	workshop end		
4:00 p.m.	break	break			
4:30 p.m.	guided city tour	break			
5:00 p.m.		banquet (Le Croy)			
5:30 p.m.					
6:00 p.m.					
6:30 p.m.					
7:00 p.m.	welcome reception (Alter Fritz)				
7:30 p.m.					
8:00 p.m.					



## Industrial Exhibition & Sponsors

The Industrial exhibition will take place at the Alfried-Krupp-Kolleg on Monday afternoon (Juni 7) after the lunch break in parallel with the afternoon and poster sessions. The following companies will be displaying their products and supporting the workshop. The Sonderforschungsbereich-Transregio 24 is additionally supporting the workshop.

G.A.S. Gesellschaft für analytische Sensorsysteme mbH, Germany



Ionimed Analytik GmbH, Innsbruck, Austria



Loccioni Humancare, Italy



MG Optical Solutions GmbH, Germany



neoplas control GmbH, Germany



Sonderforschungsbereich-Transregio 24



## Travel Information

Conference participants arriving by air should fly to Berlin or Hamburg airports. From there Greifswald can be reached by train or car. The fastest way to reach Greifswald by car is from Berlin via the Autobahn A10 / A11 / A20 and from Hamburg via A1 / A20. A detailed timetable of train connections can be obtained from the Traveservice of the Deutsche Bahn [www.reiseauskunft.bahn.de](http://www.reiseauskunft.bahn.de). If you come from Scandinavia or the Baltic states there are several ferries to Rostock and Sassnitz (Isle of Ruegen). Details on Greifswald's public transportation system can be found here: <http://www.sw-greifswald.com/verkehr>. You can find an online map of the city of Greifswald here: <http://www.staedte-verlag.de/stadtplaene/plan/index.php4?plz=17489> or on our homepage.

If you need any advice for your travel or arrival, please do not hesitate to contact the LOC.

Please bring this announcement to the attention of other colleagues who may be interested in this meeting as well. We are looking forward to see you in Greifswald,

Sincerely yours,

Jürgen Röpcke

Chair of the Local Organizing Committee of BGA 2010

### Scientific Advisory Board

Anton Amann, Austria

Jörg Ingo Baumbach, Germany

Jürgen Röpcke, Germany

Henry Völzke, Germany

### Local Organizing Committee

J. Röpcke (INP, Chair)

H. Völzke (ICM, University of Greifswald, Co-Chair)

F. Hempel (INP, Secretary)

M. Hannemann (INP)

L. Glawe (INP)

N. Lang (INP)

### Contact

Jürgen Röpcke

INP Greifswald

Felix-Hausdorff-Str. 2

17489 Greifswald // Germany

Phone: +49 3834 554 444

Fax: +49 3834 554 301

bga2010@inp-greifswald.de

[www.breath-gas-analysis.org](http://www.breath-gas-analysis.org)



German-Austrian Workshop  
on Breath Gas Analysis

Greifswald, Germany

June 07 – 09, 2010