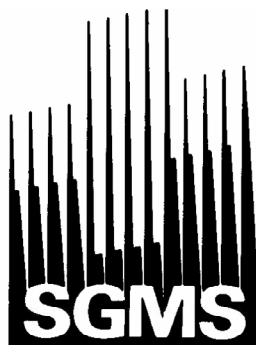


Swiss group for mass spectrometry
Schweizerische Gruppe für Massenspektrometrie



Groupe suisse de spectrométrie de masse
Gruppo svizzero di spettrometria di massa

Newsletter

2008 SGMS Meeting

November 6th and 7th

Dorint Hotel Blüemlisalp

Beatenberg

Plenary lectures:

Gary Siuzdak	The Scripps Research Institute, La Jolla CA
Eduard Arzt	Leibniz Institute for New Materials, Germany
Mario Thevis	German Sport University Cologne, Germany
Roman Zubarev	Uppsala Biomedical Centrum, Sweden

SGMS General Assembly 2008

Dorint Hotel Blüemlisalp

Thursday November 6th, ~17:20

We hope that many people will attend our General Assembly 2008 following the afternoon session. During the apèro and the "Dinner Buffet" we will have plenty of time for discussions. As usual latest news will be served at the bars.

Contents see next side

Letter from the President

Dear all

The Swiss Group for Mass Spectrometry was founded 25 years ago. During the last 25 years mass spectrometry has greatly evolved. In the early years of the Swiss Group for Mass Spectrometry EI and CI dominated the world of mass spectrometry. Both techniques were often used with DIP and if coupled to a device it was certainly a GC and not an LC. So people were doing GC/MS. But after a while there were rumours about LC and MS. Some tried it directly, but failed. Engineer-type mass spectrometrists then produced the moving belt interface, the first interface that actually worked. Let's not talk about sensitivity and memory effects. Others, more the experimental chemist-types heated everything up producing what was known as Thermospray and Particle Beam. Richard Caprioli, developed continuous-flow FAB to connect LC and MS, requiring glycerol in the matrix, the whole a tricky thing to keep running. Then came MALDI MS (remember Tanaka's Nobel price in Chemistry 2002), but there was no obvious way to directly interface to GC or LC. API finally was the break through (Fenn's other half of the Nobel price in 2002) and nowadays everybody is electrospraying. Some also use APCI, and there is APPI, MAB, ECD/ETD and others too. Everyone knows that mass spectrometry has moved from small and volatile compounds towards non volatile and polar substances. There is no more derivatization needed to ionize even big molecules. Life sciences without mass spectrometry are unthinkable. Today, there is talk of proteomics, metabolomics and even other -omics based on mass spectrometry.

I am proud of having been part of the SGMS committee during the last 8 years and being president for the last 6 years.

One should always leave at the top and I think after the great and successful 25th anniversary meeting with its marvellous and unforgettable social event at Grand Hotel Giessbach it would be the time to reorganize step by step the SGMS committee and make place for a new president leading the SGMS.

I had a great time representing the SGMS at the IMSC in Edinburgh and Prague. It was a great experience and a good chance to meet lots of other members of the mass spectrometry community. Unfortunately we lost the bid for the IMSC 2012 during the Prague meeting, but the SGMS will resubmit for the IMSC 2015 at the upcoming IMSC 2009 in Bremen. The organising committee will again be chaired by Marc Suter and Renato Zenobi. I wish them already now good luck for the race! Might the best team win.

I should not miss to thank to all of my colleagues in the committee for all there help and support organizing the annual meetings at Beatenberg. In my experience all the meetings were perfectly organized. It was not always that easy to prepare the entire meeting in advance so that you and I could enjoy the meeting. I really loved to welcome and host you all at Beatenberg. Of course I'd like to stay for another period as member at large in the committee to provide for a smooth and easy transition in the committee.

The leaving president, Andreas Stämpfli

Mass-based metabolomics from solution and surfaces

Gary Siuzdak

***The Scripps Research Institute
Center for Mass Spectrometry
10550 North Torrey Pines Road
La Jolla, CA 92037, USA***

Quantitative global analysis of endogenous metabolites from cells, tissues, fluids or whole organisms - metabolomics, is becoming an integral part of functional genomics efforts as well as a tool for finding diagnostic biomarkers. Where the genome and proteome is largely enabled by the predictable fragmentation pattern of peptides, metabolomics is complicated by the tremendous chemical diversity of metabolites. The experimental aim in our global metabolomics studies is to obtain a comprehensive quantitative with an unbiased view of the metabolome. We have explored multiple novel mass spectrometry platforms for metabolomics including both solution-based approaches and surface-based mass spectrometry, such as nanostructure-initiator mass spectrometry (NIMS). These platforms will also be presented in the context of specific biochemical applications such as neonate screening, gut microbial influence, and tissue imaging.

Biomimetic adhesion surfaces

Eduard Arzt

***Scientific Director and Chairman (CEO)
INM - Leibniz Institute for New Materials
Saarland University
Germany***

Adhesive joining with molecular (van der Waals) interactions without chemical glue is presently receiving much attention because of many potential applications. Research on how insects, spiders and geckos stick to surfaces has inspired a new paradigm: fibrillar surfaces with appropriate design can show much higher adhesion performance than flat surfaces. The insight gained in studying biological systems can be transferred to the development of optimized artificial attachment devices. By systematic variations of fiber diameter, aspect ratio and contact shape, we have produced, on a laboratory scale, artificial structures with adhesion strengths similar to the gecko. Further advances with switchable adhesion ("smart adhesives") have been demonstrated and may lead to interesting applications in medical products, sports good, construction materials and microfabrication.

Liquid chromatography – mass spectrometry in sports drug testing

Mario Thevis

***German Sport University Cologne
Institute of Biochemistry
Carl-Diem Weg 6
50933 Cologne
Germany***

LC-MS(/MS) has gained considerable importance in sports drug testing due to its capability to measure thermolabile compounds with great sensitivity and specificity in complex biological matrices such as blood or urine. Numerous assays formerly established using GC-MS approaches were transferred to LC-MS-based methods, and complementing procedures particularly for peptide hormones such as insulins or corticotrophins were developed. Consequently, the instrumental equipment of doping control laboratories has changed over the last decade, and with the growing number of prohibited compounds and methods of doping, modified or additional screening methods are currently utilized to cope with the 'creativity' of cheating athletes and the virtually infinite pool of new therapeutic agents with potential for misuse in sports. A selection of analytical methods developed for doping control purposes will be presented and outline the particular challenge that either the compounds or their legal availability represent to sports drug testing authorities.

Pathway Analysis in Expression Proteomics: Toward Pathway Search Engine

Roman Zubarev

***Biological Mass Spectrometry
Uppsala Biomedical Centrum
Husargatan 3
SE-75 123 Uppsala
Sweden***

Analytical Pathway Biology strives to develop a tool that uses proteomics datasets as an input and yields activated signalling pathways as an output. Such a “pathway search engine” (PSE) will find application in many fields, from fundamental studies to search for novel disease biomarkers. The task of PSE development is far from trivial as straightforward mapping of up- or down-regulated proteins onto signalling pathways usually produces incorrect results. We have developed a novel approach to pathway identification (Zubarev et al., *J. Proteomics*, 2008, 1, 89-96), and have extended this approach to keynodes. Examples of application of this approach to different biological systems will be demonstrated.

President's Report 2007

"25 years of Swiss Group for Mass Spectrometry: Since 1982 the Swiss Group for Mass Spectrometry acts now as a platform for Swiss people interested in mass spectrometry and related techniques. The fact that the SGMS still exists proves that such a discussion group was indeed a need in Switzerland. Even so Switzerland is a rather small country compared to other nations the density of analytical equipment hence mass spectrometry is very high, higher than in most other regions all over the world. It's certainly because of Switzerland's strong life sciences and chemistry related industries.

Initially the SGMS was only open for people working in the field or being interested in mass spectrometry and coming from Swiss based industries, institutions or universities. Time after time also companies working in the field of mass spectrometry joined as members and even started supporting our interest group financially. Nowadays we count about 190 active members and we have 10 companies sponsoring us.

Thanks to the financial support of Agilent Schweiz AG, Applied Biosystems, Brechbühler AG, Bruker Daltonics, Dionex (Schweiz) AG, Perkin Elmer, Shimadzu Schweiz AG, Spectronex AG, Varian Schweiz AG and Waters Schweiz AG the committee was able to set up such a splendid event like the 25th anniversary meeting 2007 for such an attractive price.

The planning of this meeting started in 2005 with the reservation of 120 rooms at the Dorint Hotel Beatenberg This means that the hotel is fully booked during these days. Then in summer 2006 we discussed at a committee meeting at Brechbühler AG, Schlieren the rough outline of the meeting and the social event. Soon we agreed that the gala dinner must be at the Grand Hotel Giessbach. Our contact person at the Dorint Hotel, Katja

Bülow, helped getting offers for the busses, the boat trip on Lake Brienz, and established the first contact with the event manager at the Grand Hotel Giessbach. Each committee member has gathered individually information about possible speakers to be invited. Of course we went just for the best and at our second committee meeting directly after the 2006 SGMS meeting here in Beatenberg we already had the commitment from two. It is a great pleasure that we could get Richard Caprioli, Graham Cooks, Staffan Nilson, Phil Mariott and August Schubiger as speaker at this very special event. I am proud to have such great scientists among us.

But there still were other things to be organized. The musicians for the boat trip and for the Gala dinner had to be contacted. Laurent Bigler organized the musicians for the Gala Dinner some excellent young musicians from Zurich and it is "culpa mia" that you have to listen to An Làr on the boat. It is my favourite Swiss Celtic group and their concerts always are very special.

Of course we had to meet for a third time. This was in Mai 2007 at the Grand Hotel Giessbach for having a look at the location – the "Belle Epoque Hall" and of course for setting up the dinner and ... testing the wine and the Giessbach water! Believe me or not: It was a hard day!

I would certainly not forget to thank all the committee members for the planning and setting up of this 25th anniversary meeting.

The committee was overwhelmed by the amount of abstracts received within the deadline and even after we still got abstracts. Unfortunately we could only accept 16 of them - a tough job. We could have easily filled two other sessions. I am sorry for all the abstracts we could not accept. This year also we have 3 sponsored students sharing their results with us and therefore being guests of the committee. Please support them too by attending to their

talks. The students are Cedric Bovet, Silvan Eichenberger, both from Zürich and Elia Grata from Geneva.

The 25th anniversary meeting is in fact special. Already one week before the deadline has arrived we were fully booked and we had to put people on a waiting list. Some of them were happy but I am sorry for all of those that could not participate.

This year we have 129 participants for the sessions and for the Gala Dinner on Thursday at the Grand Hotel Giessbach we will be 139 persons. A new record! But I am pretty sure that next year we should come out with around 100 to 110 people attending the meeting. Getting bigger and bigger is not the goal. We should keep it as it is now – familiar and friendly! By the way the SGMS meeting 2008 is on November 6th and 7th ... and of course again here in Beatenberg.

Once again thanks to my colleagues of the SGMS committee and thanks for your attention.”

Andreas Stämpfli, President

Minutes of the 2007 General Assembly of the Swiss Group for Mass Spectrometry

Dorint Hotel Beatenberg, 24. October 2007 – 16:49

Agenda

- 1. Nomination of the scrutinizers**
Beat Aebi is elected by all members present.
- 2. Approval of the minutes of the 2005 general assembly**
The minutes are approved by all members.
- 3. President's report and its approval**
Andreas Stämpfli, our president reads the report for 2007 which is then approved by all members present.
- 4. Treasurer's report**
Stephan Brombacher, our treasurer informs us about the current status of our accounts:

Account Balance UBS and Post Account

	Postal account	Banking account	Total
Balance Oct. 1st, 2006	30'014.84	26'121.63	56'136.47
Revenues	4924.85	11'450.15	16'375.00
Expenses	58.05	7280.30	7338.35
Balance Sept. 30st, 2007	34'881.64	30'291.48	65'173.12
Difference	+ 4866.80	+ 4169.85	+ 9036.65

5. Auditor's report and approval of treasurer's and auditor's report

Andreas Topp and Peter Oggenfuss have checked the treasurer's report and Andreas Topp states that they confirm the perfect bookkeeping of the SGMS accounts. The treasurer's report and the auditor's report are approved by all members.

6. Decision on the 2008 membership fee

The member fee for 2008 remains at CHF 25.00 per year and member.

This is accepted by all members.

7. Admission of new members

The following new members are admitted to the SGMS:

<i>Federico Brianza</i>	<i>Polyphor AG</i>	<i>Basel</i>
<i>Nathalie Lehmann</i>	<i>Novartis Pharma AG</i>	<i>Basel</i>
<i>Hisham Ben Hamidane</i>	<i>EPFL</i>	<i>Lausanne</i>
<i>Adrien Nyakas</i>	<i>Universität Bern</i>	<i>Bern</i>
<i>Louis Bertschi</i>	<i>ETH</i>	<i>Zürich</i>
<i>Geyer Roland</i>	<i>Applera Europe</i>	<i>Rotkreuz</i>

8. Election of the Auditors

Peter Oggenfuss and Andreas Topp have both accepted to be auditors again.

9. News from the SCS – Marc Suter

Marc informs about some news in the SCS. They now have a new executive director, Dr. Lukas Weber.

10. SGMS Homepage – MJF Suter

About 25-30 jobs have been posted on the web in 2007.

11. Individual proposals

None.

12. Miscellaneous

The next SGMS Meeting will be taking place at the same location (Beatenberg) from 6./7.11.2008.

The General Assembly closes at 17:13

Beatenberg, 24.10.2007

Thomas Läubli

A handwritten signature in black ink, appearing to read "Läubli".

Secretary of the SGMS

SGMS Meeting 2008, November 6th and 7th

Dorint Hotel Blüemlisalp, Beatenberg

Oral communications / Abstracts:

Next to the plenary lectures there will be time for several oral communications from various participants. The time allotted will be 20 minutes. Please allow some minutes for discussion. The abstract incl. author's name and address should be sent latest by Friday **July 25, 2008** directly to the SGMS by e-mail (**sgms@brechbuehler.ch**). The abstract should not exceed 2500 characters.

Please note that the lecture hall is equipped with PC projection facilities only. To avoid technical problems everybody will be using the PC provided by the organizers (no personal laptops or MACs allowed). Only presentations prepared or saved as Microsoft Office Power Point 2003 will be accepted.

In preparing your presentation, please consider that your presentation has to be formatted horizontally and remember the dictum "less is more". To obtain clear slides, consider the differences between the size of your office and that of an auditorium for 120 people. The attendants sitting in the last row also have the right to read the contents of your slides without any problem. Test your slides on readability.

Registration and Accommodation:

Please, send your registration (only completely filled in forms!) to **sgms@brechbuehler.ch** not later than **September 30, 2008**. Either PDF by email or filled in printed form by ordinary mail will be accepted.

There is absolutely no need to register personally at the Dorint Hotel Blüemlisalp! The SGMS committee will again manage the hotel reservation

and payments. Only the "extras" will have to be paid directly at the hotel-reception (like: extra nights, phone-calls, muh-bar, mini-bar ...).

We will again strictly follow a first come first serve policy for the distribution of the hotel rooms (~110 rooms available!).

Registration fees including Hotel accommodation, business lunch, dinner buffet and breakfast and social event:

CHF 260/ person (single room occupancy)

CHF 235/ person (double room occupancy; please indicate roommate)

CHF 185/ person (accompanying person; double room occupancy;
please indicate roommate)

Late Fee: An additional late fee of CHF 50 will be enforced for all payments received after September 15, 2008.

NOTE: to qualify for the regular rates payment **MUST** be received by September 15, 2008 - receipt of the registration form without payment will not qualify.

There is no possibility of attending the meeting without Hotel accommodation. Thank you for your understanding!

Please make your payment to (! please note: **account has changed !**)

Schweiz. Gruppe fuer Massenspektrometrie (SGMS)

UBS Switzerland BCL: 292, 10722181.0

IBAN: CH88 0029 2292 1072 2181 0

SWIFT: UBSWCHZH40M

Make sure that we can track your payment by ensuring that your name is clearly stated on the payment form. Every year we receive unidentifiable payments due to misleading information on the incoming payments!

Cancellations

Cancellation requests, received by e-mail before **September 30, 2008**, will qualify for a refund of the fees paid, less a handling charge of 25% of the total payment. After **September 30, 2008**, no refunds will be made; however, substitute participants can attend.

Notification of all such changes must be sent to **sgms@brechbuehler.ch** by e-mail before October 20, 2007. Changes will not be accepted at the meeting.

No show: No refund will be made.

Students support program:

Students giving a talk (selection by SGMS Board) will be hosted free of charge. For more information, please call any of the SGMS committee members.

Travel Information:

Travel details together with the complete program will be published on our homepage (www.sgms.ch) and sent out in September together with our official invitation.

SGMS Membership Fee:

Included in the mail that will be sent out in September will be a pink payment form for the annual membership fee of 25 Fr. You are kindly asked to pay this fee as soon as possible. Please write your name in the comment field!
The treasurer appreciates your cooperation.

Schweiz. Gruppe fuer Massenspektrometrie (SGMS)

UBS Switzerland BCL: 292, 10722181.0

IBAN: CH88 0029 2292 1072 2181 0

SWIFT: UBSWCHZH40M

2008 General Assembly of the SGMS

Thursday November 6th , 2008

~ 17:20 h

Dorint Hotel Blüemlisalp, Beatenberg

Agenda

1. Nomination of the scrutineers.
2. Approval of the minutes of the 2007 general assembly.
3. President's report and its approval.
4. Treasurer's report.
5. Auditor's report and approval of treasurer's and auditor's report.
6. Decision on the 2009 membership fee.
7. Admission of new members.
8. Election of the new President and the members of the committee.
9. SGMS homepage - M Suter.
10. Individual proposals.
11. Miscellaneous.

Individual proposals must be sent to andreas.staempfli@roche.com before October 10, 2007.

The President, Andreas Stämpfli

President Andreas A Stämpfli
F. Hoffmann-La Roche AG
PRBT-S, Bau 65 / 109
CH-4070 Basel
andreas.staempfli@roche.com
Phone +41-61-688 3131

Vice President Jean-Luc Wolfender
Ecole de Pharmacie Genève-Lausanne
Université de Genève
Quai Ansermet 30
CH-1211 Genève 4
jean-luc.wolfender@pharm.unige.ch
Phone +41-22-379 3385

Secretary Thomas Läubli
Brechtbühler AG
Steinwiesenstrasse 3
CH-8952 Schlieren
thomaslaeubli@brechbuehler.ch
Phone +41-44-732 3126

Treasurer Stephan Brombacher
Novartis Pharma AG
WKL-684.U1.24
CH-4002 Basel
stephan.brombacher@novartis.com
Phone +41-61-696 2391

Internet Marc J-F Suter
EAWAG
Ueberlandstr. 133
CH-8600 Dübendorf
marc.suter@eawag.ch
Phone +41-44-823 5479

EMS representative Laurent Bigler
OCI, Universität Zürich
Winterthurerstr. 190
CH-8057 Zürich
lbigler@oci.unizh.ch
Phone +41-44-635 4286

SCS representative Marc J-F Suter

Newsletter Andreas A Stämpfli

Thanks to our sponsors



Agilent Technologies



Passion. Power. Productivity.



VARIAN

