



# BSAS 2017

11<sup>th</sup> International Meeting for Behavioural  
Science in Surgery & Acute Care Settings  
20<sup>th</sup> / 21<sup>th</sup> October 2017 | ETH Zurich | Switzerland

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**Program Friday Oct 20<sup>th</sup>**

9.00-9.45 Registration & welcome reception

9.45-10.00 **Welcome to BSAS 2017 in Zurich**

Dr. Michael Burtscher, University of Zurich;  
Dr. Jan Schmutz, ETH Zurich

10.00-11.00 **Keynote 1: Prof. Dr. Hugo Sax**, Head of Infection Control, University Hospital Zürich, Switzerland

***Mind versus microorganisms: Do we really know what our hands do?***

11.00-11.30 Coffee break

11.30-13.15 **Research presentations session 1: Teamwork in Surgery**

1. **Tensions in the operating room impact collaboration quality... but not for everyone;** *S. Keller, F. Tschan, N. K. Semmer, E. Holzer, S. Huber, J. Zimmermann, D. Candinas & G. Beldi*
2. **Intraoperative flow disruptions and surgical teamwork during robot-assisted surgery: A mixed-methods study;** *M. Weigl, M. Pfandler & J. Weber*
3. **Surgeon's team management skills predict clinical performance;** *T. Manser, J. Bogdanovic, L. Clack, S. Arora, N. Sevdalis & J. B. Schmutz*
4. **Slowing down as a team: Applying the slowing down conceptual framework to facilitate team situation awareness in the OR;** *C.-A. Moulton, M. H. Mobilio, A. Ramjaun, N. Wright, A. Snyman, M. Masella, C. Serrick & P.-L. Henaux*
5. **Team Adaptation in the OR: Shifts in Coordination Centrality and their Effects on Coordination and Performance;** *S. Pasarakonda, J. B. Schmutz, J. Bogdanovic, G. Grote, M. Guggenheim & T. Manser*

13.15-14.15 **Lunch at the Alumni Pavilion**

14.15-15.40 **Research presentations session 2: Teamwork & Patient Safety**

6. **Team Processes Enhancing Performance of Medical Teams: A Meta-Analysis;** *J. B. Schmutz, L. L. Meier & T. Manser*
7. **The Role of Psychological Safety in Predicting Flu Vaccination of Health Care Workers;** *M. Stühlinger, G. Grote & J. Schmutz*
8. **Video reflexive ethnography: uncovering healthcare provider risk perceptions;** *L. Clack, J. Bogdanovic, S. Passerini, T. Manser & H. Sax*
9. **Learning through talk: Conversational elements that mediate learning through workplace talk;** *W. J. Eppich, T. Dornan, J.-J. Rethans & P. Teunissen*

**15.40-17.00 Poster presentation including coffee break**

1. **Assessing medical, technical and teamwork skills in multidisciplinary ad-hoc formed teams of experienced ICU medical professionals - Proposal of a simulation scenario and performance rating checklist;** *J. Zimmermann, F. Tschan, C. Morgenthaler, N. Semmer & S. Marsch*
2. **Do further briefings during surgery influence the initial timeout?;** *E. Holzer, F. Tschan, N. K. Semmer, S. Keller, S. A. Huber, J. Zimmermann, D. Candinas & G. Beldi*
3. **Resilience in surgery teams - Identifying factors that protect team performance successfully after surgery flow disruptions;** *F. Cnosen, S. Kersten, J. Pols, T. Waterbolk, D. Jaarsma & M. Mariani*
4. **Self-guided reflexivity after cardiopulmonary resuscitation: topics discussed;** *C. Morgenthaler, F. Tschan, N. K. Semmer, J. Zimmermann, S. A. Huber, P. Kündig & S. U. Marsch*
5. **Noise level - a predictor for clinical performance;** *K. R. Jensen, L. Brogaard, O. Kierkegaard, L. Hvidman, T. Manser & N. Uldbjerg*
6. **Teaching CRM in 15 Minutes;** *A. Zech, B. Gross, L. Rusin, J. Kiesewetter & J. Zottmann*
7. **Disruptions in intraoperative care - an observational study of nurse anaesthetists;** *O. Karolinaå, G. Camilla, U. Maria, N. Ulrica, E. Anna, E. Mirjam, K. Pukk-Härenstam*
8. **Biofeedback components evaluated in the lab setting;** *L. Kennedy & S. H. Parker*
9. **Enabling technology for communicating about uncertainty: Tracing the decision-making process of physicians with a Decision Process Matrix;** *D. Hausmann, C. Zulian, E. Battegay & L. Zimmerli*
10. **Speaking Up after the Deed: A Quasi-Experimental Study in Post-Surgical Handovers;** *S. Förster, M. J. Burtscher, S. Brusoni, B. Grande & M. Kolbe*
11. **Not only hard to make but also hard to take: Reactions to voice behavior in teams;** *H. Krenz, M. J. Burtscher & M. Kolbe*
12. **Welcome to the team Dr. Watson! Opportunities and threats in Human-Ai collaborative decision making;** *N. Bienefeld & G. Grote*
13. **What makes a high performing obstetric team? The relationship of non-technical skills and clinical performance in an obstetric emergency;** *L. Brogaard, N. Uldbjerg, O. Kierkegaard, L. Hvidman, K. Roed Jensen, P. Musaeus, T. Manser*

**18.30****Reception & dinner at the historic guild-house *Zunft*haus zur Schmiden**

Located in the middle of Zurich's Old Town (Niederdörfli). *Zunft*haus zur Schmiden is in walking distance (approx. 15min) from the conference venue. The entrance is on Marktgasse 20, at the corner of Rindermarkt (see picture below).



**Program Saturday Oct 21<sup>st</sup>**

09.00-09.30 Coffee/tea

09.30-10.30 Keynote 2: Prof. Dr. Franziska Tschan, Institute of Work and Organizational Psychology, University of Neuchâtel

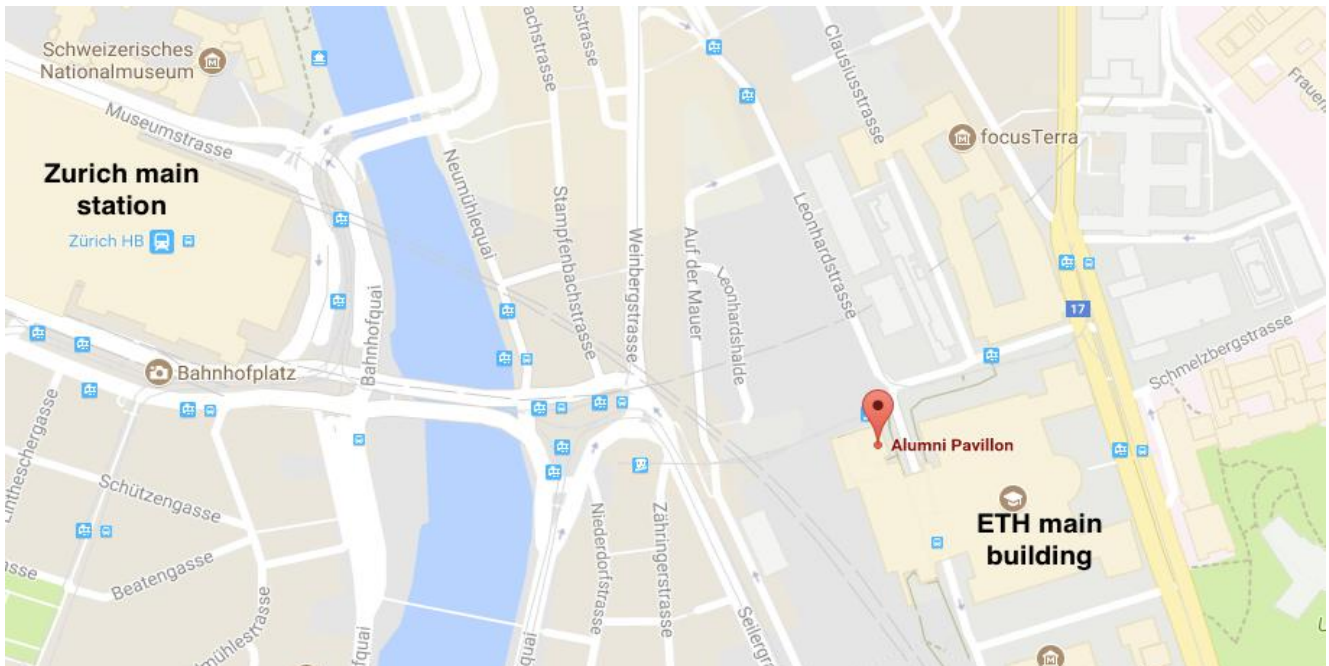
***Teamwork in Healthcare – a Swiss Perspective***10.30-11.00 **Coffee break**11.00-12.40 **Research presentations session 3**

10. **The “Silent Operating Theatre Optimisation System” (SOTOS): Impact on stress and communication for surgical staff during cardiac surgery;** *M. Boos, M. Pagel, T. Thormann, K. Sultan & M. Friedrich*
11. **How to challenge without speaking up: a multimodal analysis of interprofessional clinical teams;** *M. Lavelle, G. Reedy, T. Simpson & J. E. Anderson*
12. **Adaptive coordination after technical incidents in medicine and aviation;** *J. Reichling, J. Geelink, S. Imach & A. Zech*
13. **Effect of simulation training for ICU teams on team performance and actual patient outcomes;** *M. Melief, E. S. Leebos, A. Katinakis, P. Spronk, M. C. de Bruijne*
14. **Simulation based teamwork training can reduce barriers between anaesthesia and surgery - focus group interviews with experienced OR staff;** *C. Escher, H. Rystedt, L. Meurling, A. Kjellin, J. Creutzfeldt, L. Felländer-Tsai*

12.45-13.45 **Lunch at the Alumni Pavillon**13.45-15.15 **Panel Discussion: “Bridging the gap between research and practice”**Panellists: *Tanja Manser, Nobert Semmer, Carol-Anne Moulton*Moderator: *Walter J. Eppich*15.15-15.45 **Closing remarks, announcement of next BSAS, Awards**16.00 **Refreshment & farewell**

**Venue:**

The conference will be held at the Alumni Pavillon on the site of the ETH main building at Leonhardstrasse 34, 8001 Zurich. You can either take the *Polybahn* funicular railway from the *Central* square that brings you up to the ETH main building (Polyterrasse ETH) or take the tram (Nr. 6 or 10) to the stop “ETH/Universitätsspital”.

**Information for presenters:**

**Presentations:** Presenters have a 20min timeslot for their presentations. We recommend using only 10-15min for the presentation so that there is enough time for questions and discussion. Please bring your presentation as a PowerPoint file on a USB stick. A computer for the presentation will be provided. If you would like to use any other formats (e.g. Prezi, Keynote), you can connect your own computer to the projector.

**Poster:** Please bring a poster in A0 format. Both upright (portrait) and horizontal (landscape) formats are possible.

**Short hike to the Üetliberg on Sunday:**

For those of you who would like to stay over the weekend in Zürich, we are organizing a short hike up to the Üetliberg (<http://www.uetliberg.ch/en/hiking/>). The Üetliberg is Zurich's local mountain with an impressive view and is easily accessible from the city. We will start around 10.00 am on Sunday and have an easy 1h walk (no special hiking gear required) up to the top where you can enjoy the spectacular view. After that, we will have lunch together at the Uto Kulm restaurant. We will be back in Zürich around 15.00. From the top, there is also the possibility to take a direct train to the main station (30min). Please let us know if you would like to join the Sunday activity, so we can reserve a table.

## Keynote Speakers

**Prof. Hugo Sax** currently holds the positions of head of the infection prevention and control program and infectious diseases consultant at the University Hospital Zurich, Zurich, Switzerland, where he originally graduated from medical school. He served as a leader in several national infection control surveillance and intervention programs and as a president of the Swiss Society of Infection Control and the Swissno-so-Swiss Center for Infection Prevention. He is an international consultant and speaker on infection control topics and board member of the First Challenge on Patient Safety of WHO. His actual



research interests focus on translation of research into clinical practice in the field of infection prevention and patient safety by means of human factors design, qualitative research, and data mining. The 'My five moments for hand hygiene' concept that he developed has become the global standard to understand, train, and monitor hand hygiene performance. He teaches human factors to medical students and pilots, and much enjoys flying aircraft and sailplanes himself.

**Prof. Franziska Tschan** is full professor of social psychology at work at the University of Neuchâtel, Switzerland. In collaboration with physicians of the University Hospitals of Bern and Basel, she investigates team processes and effects of team interventions in different medical teams.

