



4th international

Bernd-Spiessl-Symposium

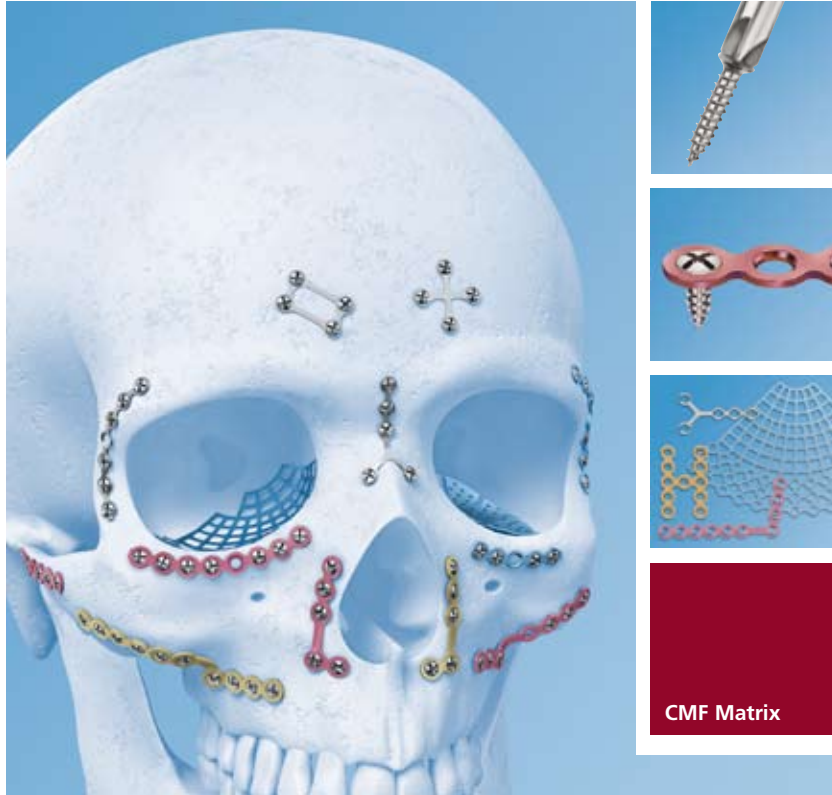
for Innovative and Visionary Technologies in Cranio-Maxillofacial Surgery

Face and Identity | 3D-Planning and Navigation

June 5th – 7th 2008 | University Hospital Basel | Switzerland

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4th international

Bernd-Spiessl-Symposium 2008

for Innovative and Visionary Technologies

in Cranio-Maxillofacial Surgery

Face and Identity | 3D-Planning and Navigation

June 5th - 7th 2008 | University Hospital Basel

Zentrum für Lehre und Forschung (ZLF) | Hebelstrasse 20

www.bernd-spiessl-symposium.com



Francesca Bassi (Basel) presents artistic photos, similar to abstract paintings. We see expressive, colourful compositions which enable the viewer to discover new impressions again and again. The dynamic interaction from form to colour to light creates a mystic atmosphere.

19.30
Apéro & Vernissage

Theme: "Medicine meets Art"
(see also back page: pictures of Wolfgang Puelacher)

Venue: Katholische Universitäts-
gemeinde KUG, Herbergsgasse 7



Dear Colleagues, Dear Friends

We are pleased to invite you to the "4th International Bernd-Spiessl-Symposium for Innovative and Visionary Technologies in Cranio-Maxillofacial Surgery", from June, Thursday 5th to Saturday 7th 2008.

Once again the symposium will take place at the University Hospital of Basel, while the city simultaneously celebrates the ART Basel, and you will meet the human face in the most varying aspects of cranio-maxillofacial surgery, of physics, computer science, life sciences, human sciences and arts.

The syn- and transdisciplinarity of this symposium is ensured by the three organizing partners: the Department of Cranio-Maxillofacial Surgery & the Hightech Research Center of the University Hospital Basel, the Department of Oral Surgery, Oral Radiology & Oral Medicine of the University Basel, and the Academy of Art and Design in Basel.

We are convinced that you will enjoy a refreshing, creative and visionary dialog between medicine, natural science and humanities like in the previous years.

With guests from all over the world we will discuss the latest results of research in the field of our main topics «Face and Identity» and «3D-Planning and Navigation». Aside these fascinating lectures from international experts, young scientists will present their works and compete for the Bernd-Spiessl-Award 2008 (Best Lecture and Best Poster).

We wish you a compelling scientific meeting and a memorable stay in Basel.

Sincerely yours

Hans-Florian Zeilhofer

Department of Cranio-Maxillofacial Surgery and
Hightech Research Center, University Hospital Basel

J. Thomas Lambrecht

Department of Oral Surgery, Oral Radiology
and Oral Medicine of the University Basel

Alois Müller

Academy of Art and Design
Basel

Apéro & Vernissage Francesca Bassi	4
Welcome to Basel	5
Edith Habraken	7
Program Thursday June 5 th 2008	9
Scientific Program Friday June 6 th 2008	10
Gala-Dinner Holsteiner Hof	15
Scientific Program Saturday June 7 th 2008	16
Social Program Saturday June 7 th 2008	19
Poster Presentations	20
Speakers and Chairmen	22
Participating Companies	29
Site Map	30
General Information	31
Catholic community of Basel University	32
City Map	33
Preview «5 th international Bernd-Spiessl-Symposium 2009»	34
Apéro & Vernissage Wolfgang Puelacher	36

Edith Habraken, born 1965 in Holland, studied percussion at the Conservatorium Amsterdam and lives since 1988 with her family in Basel.

Her specialities and favourites are the Basler drum and the marimba. She plays virtuous, surprising, refreshing, she plays both improvising & composed pieces, uses every object as a percussion instrument and what is very important for the audience who has never heard this women playing: whatever she does, it always goes together with a touch of humour.

She leads her foundation SMEH (Percussion- and marimbaschool Edith Habraken), and carries out her soloprogramm in the theatres.

www.edithhabraken.ch
www.smech.ch



Bildquelle: www.lesmuseiques.ch

Art | 39 | Basel | 4-8 | 6 | 08

Guided tour through the ART Basel

German tour on Thu, 5th – English tour on Sun, 8th – both at 11.00 a.m.

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10.00 – 13.00

Special Industrial Workshop

Materialise: 3D Operation planning systems in CMF-surgery
M Duron, Leuven/ Belgium

Venue: Hightech Research Center of Cranio-Maxillofacial Surgery
Hightech Research Center, Schanzenstr. 46

10.00 – 12.00

Workshop Traditional Chinese Medicine
TCM-Medizin (in German)

HP Braun, Basel/ Switzerland

Venue: University Hospital, HS 3, Spitalstr. 21

15.00 – 17.30

Bernd-Spiessl-Lectures and Round Table

Maxillo-Facial Surgery: A 50-Year Retrospective

N Schwenzer, Ludwigsburg/ Germany

OMFS, how we can survive and strengthen our field in a changing clinical and educational environment

H P Ulrich, Lübeck/ Germany

Round Table with international experts

CMF Surgery – How to face the future?

R Ewers, M Gabrielli, KW Grätz, J Hirsch, R Sader, N Samman, E Steinhäuser, N Schwenzer, HP Ulrich, A Westermark, HF Zeilhofer, and for the young generation two residents

Venue: Katholische Universitätsgemeinde KUG, Herbergsgasse 7

18.00 – 19.00

Memorial Service

Venue: Katholische Universitätsgemeinde KUG, Herbergsgasse 7

19.30

Apéro & Vernissage

Theme: “Medicine meets Art”

Venue: Katholische Universitätsgemeinde KUG, Herbergsgasse 7

Venue: University Hospital Basel, Center of Education and Research, ZLF, Hebelstr. 20

08.00	Opening of the scientific program and the industrial exhibition
08.30 – 09.30	Face and Identity I Chair: E Steinhäuser, R Ewers, R Schmelzeisen, M Wiedmer
08.30 – 08.45	The Biology of Attractiveness D Haag-Wackernagel, Basel/ Switzerland
08.45 – 09.00	Another face A Westermark, Stockholm/ Sweden
09.00 – 09.15	The Strange Case of Michael Jackson or Enhancement of Face M Götz, Basel/ Switzerland
09.15 – 09.20	Discussion
09.20 – 09.50	Coffee Break Visit of the Industrial Exhibition
09.50 – 10.20	Special Lecture Moderation: HF Zeilhofer „Physicians are not merchants and medical treatments are not sales oriented products”. What’s the position of aesthetic surgery? F W Schwartz, Hannover/ Germany
10.20 – 12.00	3D Planning and Navigation I Chair: G Santler, M F Gabrielli, A Schramm, B von Rechenberg

10.20 – 10.50	Keynote Lecture Navigation during the third decade R Ewers, Vienna/ Austria
10.50 – 11.05	Navigation in minimal invasive surgery P Cattin, Basel/ Switzerland
11.05 – 11.20	3D-Planning of asymmetries and the operative performance in patients Chr Krenkel, R Singh, D Triesnig, S Enzinger, Salzburg/ Austria
11.20 – 11.35	Reconstructive methods in hemifacial microsomia using 3-D planning W Puelacher, M Rasse, Innsbruck/Austria
11.35 – 11.55	Creating novelty – Augmented Reality (AR) as a tool for innovation M Wiedmer and JL Torpus, Basel/ Switzerland
11.55 – 12.05	Discussion
12.05 – 13.00	Lunch Break Visit of the Industrial Exhibition
13.00 – 15.10	Face and Identity II Chair: K W Graetz, C Krenkel, S P Singh, A Westermark
13.00 – 13.10	The Neck Check: An evaluation of the aesthetic appearance of the neck F Muggenthaler, Basel/ Switzerland
13.10 – 13.25	Profilometry according to the 0-Meridian line after Gonzales-Ulloa E W Steinhäuser, Erlangen/ Germany

13.25 – 13.40	Symmetry as a major key to facial harmony G Santler, Graz/ Austria
13.40 – 13.55	Mirroring in orbital surgery and in art M Metzger, Freiburg (Br)/ Germany
13.55 – 14.10	Face and identity vs plannable identities W Freysinger, Innsbruck/ Austria
14.10 – 14.25	Face, speech and identity K Schwenzer-Zimmerer and S Codoni, Basel/ Switzerland
14.25 – 14.40	Orthognathic surgery: Changing the face – Changing the personality? M F Gabrielli, São Paulo/ Brazil
14.40 – 15.00	The face in surgery and art N Sammann and N Samman, Hong Kong/ China
15.00 – 15.10	Discussion
15.10 – 15.40	Coffee Break Visit of the Industrial Exhibition
15.40 – 17.00	Quality Management in Charity-Programs Chair: D Deshpande, L Kovacs, N Samman, N Schwenzer
15.40 – 15.50	Smiling Faces: Quality and sustainability in surgical charity missions R Sader, Frankfurt (M)/ Germany
15.50 – 16.00	Facial identity loss after severe burns – Reconstructive surgery and its limitations R B Drommer, Heidelberg/ Germany

16.00 – 16.10	Facial Reconstruction using vascular free fibula grafts S Kumta, Mumbai/ India
16.10 – 16.20	Maxillofacial implants D Deshpande, Mumbai/ India
16.20 – 16.30	Catch them young and avoid surgery S P Singh, Chandigarh/ India
16.30 – 16.40	L'opération sourire – A smile for the children in Indochina K Schwenzer-Zimmerer, Basel/ Switzerland
16.40 – 16.50	Empower for self help – the romanian way of establishing a cleft center L Hurubeanu, Cluj-Napoca/ Romania
16.50 – 17.00	Everybody needs a unique face for his/her identity S Gosla Reddy, Hyderabad/ India
17.00 – 17.10	Discussion
17.10	IBRA Research Robert Schenk Prize 2008 Winner: J Caverzasio, Geneva/ Switzerland Introduction: R Sader
17.35 – 19.00	Face and Identity III Chair: J Schubert, J Hirsch, W Schilli, F W Schwartz
17.35 – 18.00	How central is the face for persons identity – some reflections from neo-phenomenology W A Langewitz, Basel/ Switzerland
18.00 – 18.45	What is a beautiful face? – In search for criteria P Deuflhard, Berlin/ Germany

18.45 – 19.00 **„Wie eine Wunde auf meiner Stirn“ –
Gesichter von Gottfried Benn**
R Schmelzeisen, Freiburg B./ Germany

19.00 **Discussion**

19.30 **Gala-Dinner**
With a fascinating jazz band:
Urs Aeby and his Loamvalley Stompers
«From New Orleans to dixieland – from swing to bossanova»

Venue: Holsteiner Hof, Hebelstr. 32



Location of the Bernd-Spiessl-Symposium Gala Dinner: Holsteinerhof, built in 1696

The famous Holsteiner Hof is located in the so called „Neue Vorstadt“, on the outskirts of medieval Basel. This area is also known as the „Pfaffenvorstadt“, suburb of the priests, the principal landlords of this region in the 13th century. The construction of the external city wall in the second half of the 14th century turned the street into a cul-de-sac, and since then it has been a well-heeled and quiet residential area.

The Holsteiner Hof was built in 1696 for the eponymous duchess Auguste Marie von Holstein-Gottorp. Auguste Marie was married to Friedrich VII Magnus, margrave of Baden-Durlach, who built the famous „Markgräflerhof“ (Hebelstr. 2-4), the only royal baroque palace in Switzerland.

Between 1743 and 1752 the palace was rebuilt and expanded for Samuel Burckhardt. The eastern outbuilding was completed in 1795.

The proportions of the entire complex as well as the architectural design features form a very harmonious ensemble and the Holsteiner Hof became the binding prototype and stylistic standard for well-kept townhouses and landscape gardening in Basel. Particularly noteworthy is the marvellous basement vault.

Between 1780 and 1800 the palace was occupied by Peter Ochs, well versed statesman, innovator and politician. The famous town clerk played a major role in the accomplishment of the Peace of Basel (1795) which consists of three individual treaties involving France, represented by François de Barthélemy. France made peace with Prussia on April 5, with Spain on July 22 and with the German principality Hesse-Kassel on August 28, concluding the stage of the French Revolutionary Wars against the First Coalition. The effect was the re-emergence of revolutionary France as a major European power. Prussia yielded its territories west of the Rhine (Alsace etc.) to France, while France returned all of the lands east of the Rhine captured during the war.

For many years the Holsteiner Hof was owned by the long-established Burckhardt family, who finally sold the palace in 1922 to the „Bürgerspital“, the Basel hospital. In 1973 the Basel-Stadt canton acquired the deeds to the complete estate which is now the main administrative centre of the University of Basel.

08.00 – 08.30	<p>Special Lecture Moderation: JTh Lambrecht</p> <p>Flapless surgery or not? Chr M ten Bruggenkate, Amsterdam/ Netherlands</p>
08.35 – 10.30	<p>Special Imaging Aspects Chair: P Cattin, P Deuffhard, S Zachow, S Zimmerer</p>
08.35 – 08.50	<p>Digital Volume Tomography – Cone-Beam Computed Tomography JTh Lambrecht, Basel/ Switzerland</p>
08.50 – 09.05	<p>Cone-Beam CT as basic imaging diagnostic in implantology D Berndt, JTh Lambrecht, Basel/ Switzerland</p>
09.05 – 09.20	<p>Synchrotron Radiation: The X-ray source to access the bone implant interface F Beckmann, Geesthacht/ Germany</p>
09.20 – 09.35	<p>High-resolution tomographic imaging of tissues and implants B Mueller, Basel/ Switzerland</p>
09.35 – 09.50	<p>“Creating faces” – Use of Computer-Assisted Surgery and 3D-photography in Oral and Maxillofacial Reconstruction E L Barth, H Essig, S Terhorst, M Rücker, NC Gellrich, Hannover/ Germany</p>
09.50 – 10.05	<p>Mechanical properties of partially degraded, ex vivo resorbable implants R Jaeger, C Landes, Freiburg (Br), Frankfurt (Main)/ Germany</p>
10.05 – 10.15	<p>Discussion</p>

10.15 – 10.50	<p>Coffee Break Visit of the Industrial Exhibition</p> <p>Visit (Jury) of the Poster Session</p>
10.50 – 13.00	<p>3D-Planning and Navigation II Chair: W Freysinger, C Kunz, C Jaquiéry, G W Paulus</p>
10.50 – 11.10	<p>3D-Planning – Requirements of the surgeon A Sugar, Swansea/ Wales UK</p>
11.10 – 11.30	<p>3D model based planning in surgery of the head S Zachow, Berlin/ Germany</p>
11.30 – 11.45	<p>Virtual models in computer assisted maxillofacial surgery A Schramm, Ulm/ Germany</p>
11.45 – 12.00	<p>Endoscopic navigated world of the sinus: Identity from the inside of the face M Caversaccio, Bern/ Switzerland</p>
12.00 – 12.15	<p>Computer aided planning of the facial contour in the aesthetic and reconstructive surgery: Are soft tissue changes predictable? L Kovacs, Munich/ Germany</p>
12.15 – 12.30	<p>Preoperative planning and intra-operative navigation in corrective surgery for craniofacial deformities – Current concepts and future tasks P Jürgens, K Hyungmin, Z Krol, S Zimmerer, K Schwenzer-Zimmerer, HF Zeilhofer, Basel/ Switzerland</p>
12.30 – 12.45	<p>Nice to have or must have? “Im”possible techniques in daily use: Vision and real requirements S Zimmerer, Basel/ Switzerland</p>

12.45 – 12.55	Discussion
12.55	WIN AN ORIGINAL PAINTING BY BETH SARASIN sponsored by Geistlich Biomaterials
13.00 – 13.55	Lunch-Break Visit of the Industrial Exhibition Visit (Jury) of the Students Poster Session
13.55 – 14.35	Special Lectures Moderation: W A Langewitz What is the brain doing with the face Hans Landolt, Aarau/ Switzerland Learning from the horse whisperer – A novel concept of leadership for scientific teams B von Rechenberg, Zürich/ Switzerland
14.40 – 15.50	Face and Identity IV Chair: S G Reddy, A Wilk, A Sugar, K Schwenger-Zimmerer
14.40 – 15.00	Surgical correction of the facial profile G W Paulus, Munich/ Germany
15.00 – 15.15	Missing facial parts – statistically generated and automatically fabricated AA Mueller, P Paysan, R Schumacher, J Maurer, BI Berg-Boerner, E Schkommodau, T Vetter, P Juergens, K Schwenger-Zimmerer, Basel/ Switzerland
15.15 – 15.30	Cranioplasty – from ancient animal skulls to modern 3D custom-made implants H Rotaru, L Hurubeanu, Gr. Baciut, HF Zeilhofer, R Schumacher, AI Rotaru, M Baciut, C Dinu, S Bran, I Moldovan, H Stan, H Cheznan, Cluj-Napoca/ Romania

15.30 – 15.50	Good morning Sigmund Freud, what can I do for you J Hirsch, E Messo, J Segerström, C Reit, E Blomqvist, Uppsala, Göteborg/ Sweden
15.50 – 16.00	Discussion
16.15 - 17.00	Special Lecture Moderation: HF Zeilhofer The first transplantation – 2 ½ years follow up B Devauchelle, Amiens/ France
17.15 – 17.30	Bernd-Spiessl-Awards 2008 Best Poster – Best Oral Presentation
17.30	Closing of the Symposium
17.45	Garden Party with Art and European Football Championship 2008 Venue: Hightech Research Center Schanzenstr. 46



COMPUTER AIDED AND IMAGE GUIDED
MEDICAL INTERVENTIONS

- Dual-mode dynamic functional stiffness of articular cartilage**
H Ardura Garcia, B Goepfert, A U Daniels, D Wirtz, Basel/ Switzerland
- Individualized approach in tumour surgery**
Bl Berg-Börner, C Kober, Z Krol1, C Buitrago-Téllez, K Scheffler, E W Radü, P Jürgens, S Zimmerer, K Schwenzler-Zimmerer, Basel/ Switzerland
- Analysis of imperfections in dental inlays using micro-computed tomography**
H Deyhle, F Schmiedli, Basel/ Switzerland
- Evaluation of the osseointegration of zirconia dental implants with a new rough surface. A histological and histomorphometrical study in mini pig**
M Gahlert, S Röbling, M Wieland, C M Sprecher, H Kniha, S Milz, Munich/ Germany, Basel, Davos/ Switzerland
- Gangrenous diseases of the oral cavity cause extensive tissue defects: necrotizing gingivostomatitis and noma disease**
M B Grosjean, K Schwenzler-Zimmerer, HF Zeilhofer, Basel/ Switzerland
- Face reconstruction after gunshot injury: living with a new identity**
M B Grosjean, C Kunz, H Jochum, HF Zeilhofer, Basel/ Switzerland
- Patient-specific virtual anatomical models and model-guided therapy in the CMF- and neurosurgery**
Z Krol, H Kim, P Jürgens, M Lüthi, C Kunz, HF Zeilhofer, S Zimmerer, K Schwenzler-Zimmerer, Basel, Bern/ Switzerland
- Micro-CT – an approach towards virtual reality**
A Kruse, U Pieles, M Bredell, N Hellmich, K W Grätz, Zürich/ Switzerland

- Significant visualization of ocular dynamics – a multidisciplinary approach**
C Kober, Bl Berg, C. Kunz, E W Radü, K Scheffler, HF Zeilhofer, C Buitrago-Téllez and A Palmowski-Wolfe, Hamburg/ Germany, Basel/ Switzerland
- Visualization of new bone formation in rapid maxillary expansion**
C Kober, C Landes, A Preiss, Y Lu, A Parvin, G Al-Hakim, P Young, R Sader, Hamburg, Frankfurt (Main)/ Germany
- When to utilize which Registration Concept for Surgical Navigation in Cranio-Maxillofacial Surgery**
HT Luebbers, P Messmer, J A Obwegeser, R A Zwahlen, R Kikinis, K W Graetz, F Matthew, Zürich/ Switzerland, Boston/ USA
- The 3D-MD system in the Department of Cranio-Maxillofacial Surgery at the University of Zurich. Precision and accuracy**
L Medinger, HT Luebbers, F Matthew, K W Grätz, Zürich/ Switzerland, Boston/ USA
- Individualized concept in a polytrauma case with severe head and brain injury**
B Williger, S Zimmerer and K Schwenzler-Zimmerer, Basel/Switzerland
- Anti-proliferative effects of bisphosphonates on different cell types**
T Ziebart, C Walter, B Al-Nawas, W Wagner, Mainz/ Germany

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Venue

Zentrum für Lehre und Forschung (ZLF)
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Hebelstrasse 20, CH-4031 Basel



Registration

ZLF, foyer, ground floor

Industrial exhibition

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Publisher

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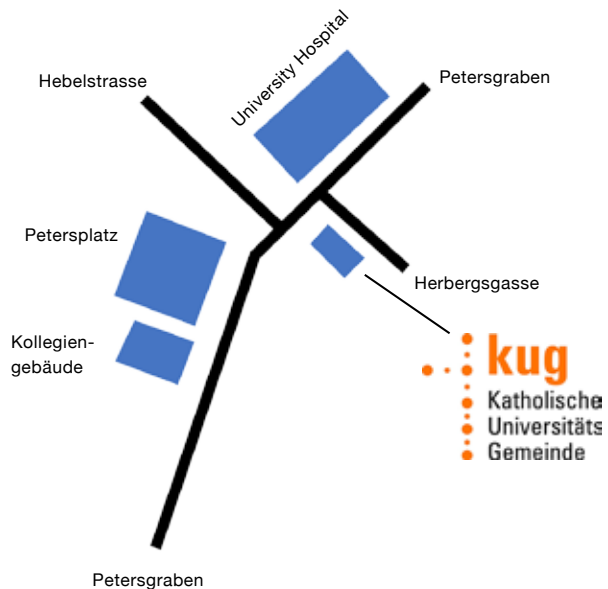
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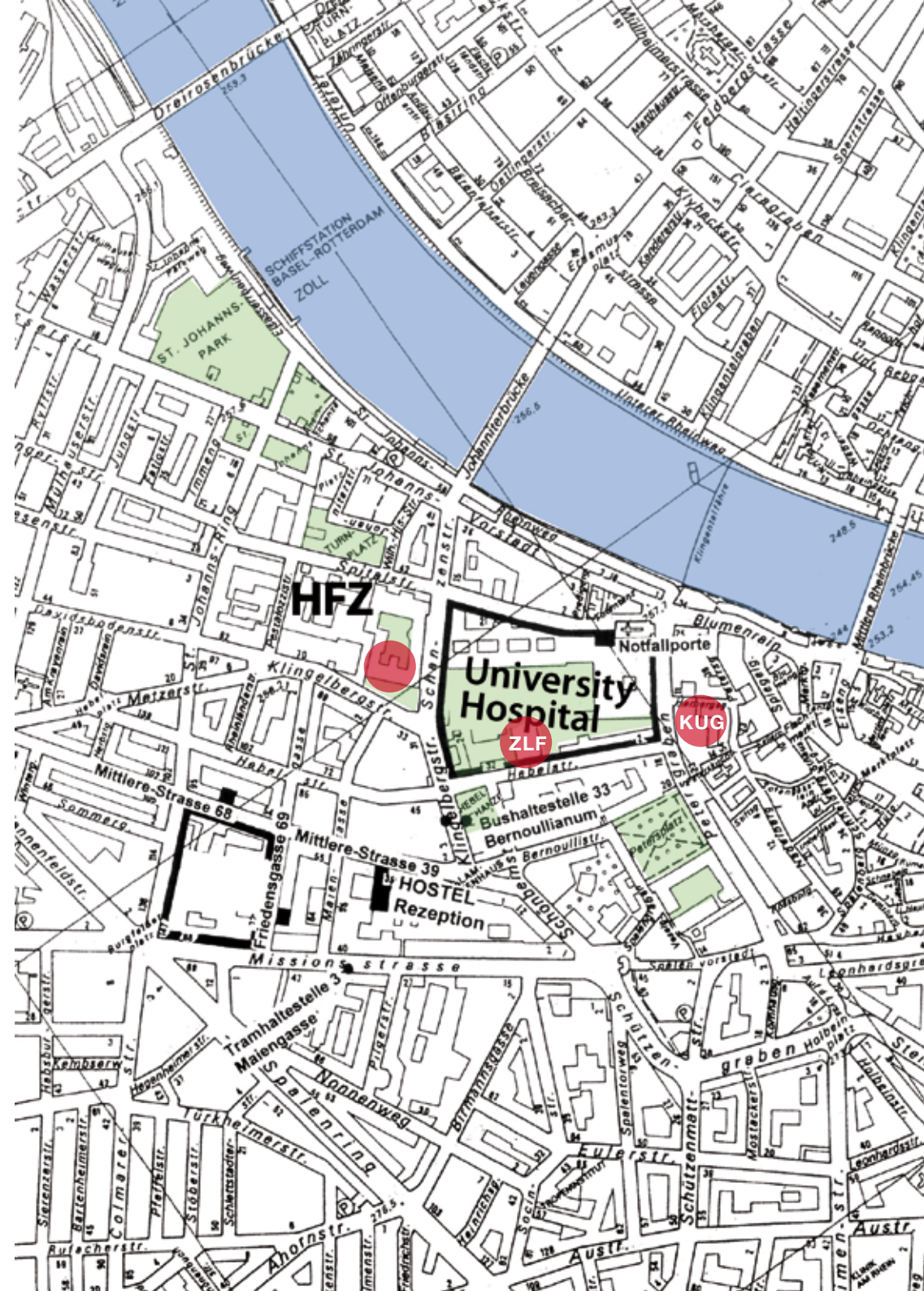
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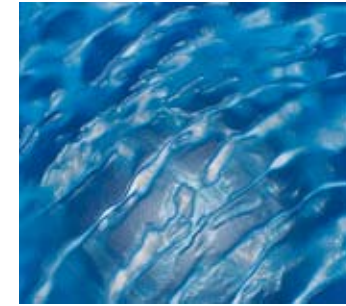
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19.30

Apéro & Vernissage | Wolfgang Puelacher

Theme: "Medicine meets Art"

Venue: Katholische Universitätsgemeinde KUG, Herbergsgasse 7



Stilleben