



2<sup>nd</sup> international

# Bernd-Spiessl-Symposium

for Innovative and Visionary Technologies in Cranio-Maxillofacial Surgery

Face and Identity | Rapid Prototyping in Medicine and Art

June 16<sup>th</sup> - 18<sup>th</sup> 2006 | University Hospital Basel | ZLF

# MODUS® OSS 2.0

Orthognatic Surgery Set



MODUS®  
OSS 2.0

Semi-rigide Osteosyntheseplatten

Farbkodierte Systemkomponenten integriert  
im modularen MODUS® Konzept



MODUS® OSS 2.0  
Kranialplatten links und rechts,  
L-Form



MODUS® OSS 2.0  
Kranialplatte,  
X-Form



MODUS® OSS 2.0  
Dysgnathieplatte

Hauptsitz • Medartis AG • Austrasse 24 • CH-4051 Basel/Schweiz • Tel. +41 (0)61 228 18 18 • Fax +41 (0)61 228 18 00  
Deutschland • Medartis GmbH • Am Gansacker 10 • D-79224 Umkirch • Tel. +49 (0)7665 98 24 0 • Fax +49 (0)7665 98 24 10  
Österreich • Medartis GmbH • Brünnerstrasse 73/4 • A-1210 Wien • Tel. +43 (0)1 294 21 44 30 • Fax +43 (0)1 294 21 44 31

Für weitere Tochtergesellschaften, Distributoren und Informationen siehe [www.medartis.com](http://www.medartis.com)

MODUS®  
by MEDARTIS®

2<sup>nd</sup> international

## Bernd-Spiessl- Symposium 2006

for Innovative and Visionary Technologies

in Cranio-Maxillofacial Surgery

Face and Identity | Rapid Prototyping in Medicine and Art

June 16<sup>th</sup> - 18<sup>th</sup> 2006 | University Hospital Basel | ZLF

[www.bernd-spiessl-symposium](http://www.bernd-spiessl-symposium)

Welcome to the „2<sup>nd</sup> International Bernd-Spiessl-Symposium for Innovative and Visionary Technologies in Cranio-Maxillofacial Surgery“. Based on the positive response from last year's motto „Medicine meets Art(s)“ the symposium takes place again this year simultaneously with the ART Basel, the world's most important art fair.

From June, Friday 16<sup>th</sup> to Sunday 18<sup>th</sup> scientists, cranio-maxillofacial surgeons and artists will discuss their research and new experiences in „Face & Identity“, the main topic of the symposium.

For human beings the face has an existential meaning. With its mimic it represents the unique perceivable identity of an individual. The human face and its role of identity is a multidisciplinary problem in medicine and humanities, applied sciences and all kind of arts. The multidisciplinary is represented by the organisation partners who have joined the Hightech Research Center of Cranio-Maxillofacial Surgery of the University Hospital Basel: the Department of Oral Surgery, Oral Radiology and Oral Medicine of the University Basel and the Academy of Art and Design in Basel as well as the German Fraunhofer-Allianz Rapid Prototyping.

This year the topic of the symposium is extended by a special issue: „Rapid Prototyping in Medicine and Art.“ We present well-known speakers and internationally renowned experts for rapid prototyping and sustaining 3D technologies. These innovative technologies have revolutionised the cranio-maxillofacial surgery.

Bernd Spiessl, founder of cranio-maxillofacial surgery at University Hospital Basel, to whom the symposium is dedicated, had a special feeling for the potentials of innovative technologies. For the first time we present perspectives of his work in the exhibition „Bernd Spiessl's studio: Views and Insights“. A special Bernd-Spiessl-Lecture will be given by Otto Kriens and Nibert Schwenger.

During the symposium you will be confronted with the human face in varying aspects. The swiss clown, mime and (mask) artist Pello will provide the symposium with his own different impulses. The swiss artist Betha Sarasin presents a new collection – pictures of water as metaphors for the human soul. Furthermore you have the chance to attend the exhibition of Hans Holbein the Younger, famous for his portraits. Exclusive for the symposium participants a guided tour to the exhibition is offered at the Kunstmuseum Basel.

You will experience an open, visionary discussion and gather new aspects of the human face's design. Friday for example two keynote lecturer confront you with the problems of „Portrait and Identity – the Invention of the Individual“ (Gottfried Boehm) and „The Basis for Facial Reconstruction: Norms or Individuality?“ (Jeffrey L Marsh).

In the evening we present an exciting talk-event about „Envisaging Technology Related Design“ with the English Designer Fiona Raby at the Elisabethenkirche, Basel.

We will also discuss the worldwide first transplant of a face in France. On Saturday, in a special lecture, Silvie Testelin from the team of Bernard Devauchelle will present the technical aspects and immunologic treatment of the patient.

On Sunday we are looking into the future. Possible perspectives of new technologies will be discussed at a round table with experts.

At the scientific symposium a refreshing, creative, interdisciplinary dialogue between medicine, science, engineering and art is expecting you. For the younger scientists and artists we offer the Bernd Spiessl Award for the best lecture and the best poster.

Last but not least we invite you to attend our Gala-Diner (Saturday evening at the Wildt'sches Haus of the 18<sup>th</sup> century) and to the Garden Party (Sunday at Hightech Research Center of Cranio-Maxillofacial Surgery).

We hope you will enjoy this multidisciplinary meeting at Basel!

With best wishes for your stay

Hans-Florian Zeilhofer<sup>1</sup>

J. Thomas Lambrecht<sup>2</sup>

Alois Müller<sup>3</sup>

- 1) Department of Cranio Maxillofacial Surgery, HFZ Hightech Research Center of CMF Surgery, University Hospital Basel
- 2) Department of Oral Surgery, Oral Radiology and Oral Medicine of the University Basel
- 3) Academy of Art and Design Basel

Welcome to Basel   Preface	4
Table of contents	6
Preopening Programme Thursday	7
Scientific Programme Friday	8
Scientific Programme Saturday	12
Scientific Programme Sunday	16
Poster and Multimedia Presentation	18
Social Programme   Artists	20
Speakers and Chairmen	24
General Information   imprint	31
Site Plan	32
City Map	33
Preannouncement Bernd-Spiessl-Symposium 2007	34

## Thursday, June 15<sup>th</sup> 2006

12.00	<b>Press Conference</b> HFZ Hightech Research Center of Cranio Maxillofacial Surgery University Hospital Basel, Schanzenstr. 46, Basel
15.00 – 17.00	<b>Visit of the Art Fair</b>
18.00 – 19.00	<b>Bernd Spiessl Memorial Service</b> Katholische Universitatsgemeinde (KUG) Herbergsgasse 7, Basel
19.30	<b>Apéro</b> Katholische Universitatsgemeinde (KUG) Herbergsgasse 7, Basel



Kanichi Seto during his internship (1969-1971) - talking to Bernd Spiessl.

08.30 – 09.00 **OPENING OF THE INDUSTRIAL EXPOSITION**

09.00 – 09.20 **Opening of the Symposium**

Hans-Florian Zeilhofer, J Thomas Lambrecht, Alois Müller

**Greetings**

André Perruchoud (Dean of the Faculty of Medicine, University of Basel)

Peter Meier-Abt (Vice-Rector of the University of Basel)

Carlo Conti (Governor of the State Basel-City,

Head of the Health Department)

09.20 – 09.50 **Bernd-Spiessl-Lecture**

with Otto Kriens (Bremen / Germany) and

Norbert Schwenger (Ludwigsburg / Germany)

09.50 – 10.30 **Coffee break –**

**Visit of the Exhibition "Bernd Spiessl's studio: Views and insights"**

(Collection Stephan Hauk)

10.30 – 11.35 **Face and Identity I**

**Chairmen:** Kriens O, Wiedmer M, Zeilhofer HF

10.30 **Pello: Pantomimic improvisations**

10.35 **Face – Art – Surgery**

Schmelzeisen R (Freiburg i. Br. / Germany)

10.50 **The face as an identity creating interface**

Freysinger W (Innsbruck / Austria)

11.05 **The myth of beauty**

Stellzig-Eisenhauer A (Würzburg / Germany)

11.25 **Discussion**

11.35 – 12.00 **Coffee break – Visit of the industrial exhibition**

12.00 – 13.00 **Keynote Lectures**

**Introduction:** Lambrecht JTh

12.00 **Portrait and identity – the invention of the individual**

Boehm G (Basel / Switzerland)

12.30 **The basis for facial reconstruction: norms or individuality?**

Marsh JL (St. Louis / USA)

13.00 – 13.45 **Lunch-break – Visit of the industrial exhibition**

13.45 – 15.30 **Face and Identity II**

**Chairmen:** Baciut M, Rasse M, Schwenger N

13.45 **Pello: Pantomimic improvisations**

13.50 **Facial expression and the intersubjective basis of personal identity**

Küchenhoff J (Basel / Switzerland)

14.05 **Physiognomy**

Wicht H, Sader R (Frankfurt M / Germany)

14.20 **Stigma and identity – living with cleft**

Hurubeanu L, Baciut G, Zeilhofer HF, Sader R, Baciut M, Compian RS,

Rotaru H, Dinu C Bran S. Balog C, Sava A, Lucaciu CO, Filip M,

Serbanescu A, Corega M, Corega C, Moldovan I (Cluj-Napoca / Romania)

14.35 **PGI Cleft palate team – orthodontic treatment protocol**

Singh SP (PGI Chandigarh / India)

14.50 **Face, perception and communication**

Codoni S, Schwenger-Zimmerer K (Basel / Switzerland)

15.05 **4D in cleft surgery – mimic – new tools to reach unobtrusive facial expressions**

Schwenzer-Zimmerer K, Boerner B, Thieringer F, Vetter Th, Codoni S (Basel / Switzerland)

15.20 **Discussion**

15.30 – 16.00 **Coffee break – Visit of the industrial exhibition**

16.00 – 17.30 **Face and Identity III**

**Chairmen:** Marsh J, Sader R, Wangerin K

16.00 **Pello: Pantomimic improvisations**

16.05 **Facial deformities in art and surgery**

Baciu M, Baciu G, Hurubeanu L, Câmpian R, Wangerin K, Kretschmer W, Bran S, Rotaru H, Dinu C (Cluj-Napoca / Romania)

16.20 **Face reconstruction – a multicenter study**

Hering P, Bongartz J, Buzug T (Düsseldorf / Germany)

16.40 **Recreating Neanderthals in virtual reality and real virtuality**

Zollikofer C, Ponce de León Marcia S (Zürich / Switzerland)

17.00 **Face and identity: the role of the surgeon**

Zeilhofer HF (Basel / Switzerland)

17.20 **Discussion**

19.30

**Art meets medicine - Evening talk**

**“Envisaging Technology Related Design”**

Lecture and panel discussion with the English Designer Fiona Raby (London / Great Britain), Panel: Fiona Raby, Sibylle Omlin (Basel / Switzerland), Hans-Florian Zeilhofer (Basel / Switzerland)

**Venue:** Elisabethenkirche, Basel, Elisabethenstr. 14



Betha Sarasin: „l'oeuil bleu“

08.15 – 10.15 **Rapid Prototyping and Medicine I**

**Chairmen:** Freysinger W, Schilli W, Schwenzler-Zimmerer K

- 08.15 **The history of rapid prototyping: from record player to CD**  
Lambrecht JTh (Basel / Switzerland)
- 08.45 **Rapid prototyping for surgical planning**  
Rotaru H, Hurubeanu L, Baciut G (Cluj-Napoca / Romania)
- 09.00 **Computer-aided surgery in the treatment of patients with craniofacial deformities**  
Malis DD, Xia JJ, Gateño J (Houston / USA)
- 09.15 **Craniofacial 3D-modelling for highly detailed rapid prototyping**  
Kober C, Sader R, Zeilhofer HF (Osnabrueck, Frankfurt / Germany; Basel / Switzerland)
- 09.30 **Optical 3D-scanning and rapid prototyping for oral and maxillofacial surgery**  
Notni G, Kühmstedt P, Brakhage P, Geller R, Reitemeier B (Jena, Dresden / Germany)
- 09.45 **From dicom to outcome – rapid prototyping enhancement of surgical planning and applications in art and design**  
Schumacher R and Kunz C (Basel / Switzerland)
- 10.05 **Discussion**

10.15 – 10.45 **Coffee break – visit of the industrial exhibition**10.45 – 12.15 **Rapid Prototyping and Sustaining Technologies**

**Chairmen:** Ewers R, Jaquiéry C, Klein C

- 10.45 **Rapid prototyping and virtual reality in cranio-maxillofacial surgery: current state of development and future perspectives**  
Ewers R, Schicho K (Vienna / Austria)
- 11.15 **Preoperative planning and intraoperative navigation in maxillofacial surgery: Experiences with a commercially available system**  
Luebbers HT, Messmer P, Pangalu A, Graetz KW (Zürich / Switzerland)
- 11.25 **OVID – 3D navigated maxillofacial surgery**  
Thieringer F, Jürgens P, Albrecht K, Sader R, Zeilhofer HF (Munich / Germany, Basel / Switzerland)
- 11.35 **Changing the face: 3D-visualisation, planning and navigation tools in orthognathic surgery**  
Jürgens P, Schwenzler-Zimmerer K, Chapuis J, Zeilhofer HF (Basel / Switzerland)
- 11.45 **Could orthognathic surgery be an art?**  
Richter M (Genève / Switzerland)
- 12.05 **Discussion**

12.15 – 13.00 **Special lecture**

**Introduction:** Zeilhofer HF (Basel / Switzerland)

**Technical aspects and immunologic treatment of the first facial transplant: six month follow up**

Testelin S, Devauchelle B, Lengele B, Badet L, Sirigu A, Morellon E, Petruso P, Dubernard JM (Amiens / France)

13.00 – 13.45 **Lunch break – Visit of the industrial exhibition  
For the jury : Poster-Presentation I**

13.45 – 15.55 **Rapid Prototyping and Medicine II:**

**Biomaterials & Implants**

**Chairmen:** Gebhardt A, Heinzl J, Richter M

13.45 **Results of proprosthetic reconstruction of upper and lower jaw using calvarial bone crafts in combination with a GTR membrane of the 3rd generation**

Sailer HF, Leupold Hlawitschka M, Weber F (Zürich / Switzerland)

14.00 **Development of layered scaffolds for generation of tissue engineered synthetic bone implants for the Zygoma**

Baksi SP, Calvert JW, Grote K (Magdeburg / Ge; Long Beach, CA / USA)

14.15 **Reconstruction of maxillar-zygomatic bone with rh-BMP2 after oncologic surgery**

Tutino M, Incandela C, Ochoa E, Conticello S, Restivo S (Palermo / Italy; Mexico-City / Mexico)

14.30 **Computerassisted threedimensional shape of synthetic material – a tool for maxillofacial surgery**

Bens AT, Tille C, Seitz H (Bonn / Germany)

14.45 **Manufacturing of individual bone implants using selective laser melting**

Meiners W, Wirtz T, Wissenbach K (Aachen / Germany)

15.00 **Rapid prototyping of hydroxyapatite ceramics for bioactive implants**

Richter HJ, Lenk R, Miosge E (Dresden / Germany)

15.15 **Reliability of generatively manufactured implants**

Jaeger, CR, Koplin C, Brand M, Meiners W (Freiburg i. Br., Aachen / Germany)

15.30 **Optimizing generation of osteoinductive grafts**

Jaquiéry C, Martin I (Basel / Switzerland)

15.45 **Discussion**

15.55 – 16.25 **Coffee break – Visit of the industrial exhibition  
For the jury: Poster-Presentation II**

16.25 – 17.00 **Face and Identity IV**

**Chairmen:** Baciut G, Kovács L, Schaefer DJ

16.25 **Aesthetic aspects in craniofacial surgery**

Klein C (Frankfurt M / Germany)

16.40 **The art of correcting congenital deformities in the face-off identity**

Sader R (Frankfurt M / Germany)

16.55 **Discussion**

17.30 – 19.00 **Hans Holbein the Younger Exhibition**

Guided Tour, Kunstmuseum Basel

19.30 **Get-together**

Gala Dinner at Wildt'sches Haus



Wild'sches Haus, built 1762-64 by Johann Jakob Fechter (1717-97) for the silk ribbon manufacturer Jeremias Wildt-Socin. Interiors completed around 1770.

09.00 – 10.45 **Face and Identity V**

**Chairmen:** Buitrago-Téllez C, Hurubeanu L, Kunz C

09.00 **Aesthetic in medical imaging**

Ewers R (Vienna / Austria)

09.10 **MRI – one face, two pictures**

Boerner I, Buitrago-Téllez C, Palmowski A, Schwenger-Zimmerer K, Radü EW, Kober C, Scheffler K, Kunz C (Basel / Switzerland)

09.20 **Computer-aided surgery: Virtual implant database for orbital reconstruction**

Metzger MC, Schulze D, Schön R, Schmelzeisen R (Freiburg i. Br. / Germany)

09.30 **Computer aided designed neo-clavicle out of osteotomized free fibula**

Kalbermatten DF, Haug M, Schaefer DJ, Wolfinger E, Schumacher R, Messmer P, Pierer G (Basel / Switzerland)

09.40 **Graphical tools for dentition planning**

Pongrácz F, Bardosi Z (Budapest / Hungaria)

09.55 **Rapid prototyping in surgical treatment of the temporomandibular joint**

Leiggener CS, Robertson A, Jaquiéry C, Schumacher R, Kunz C, Westermarck A, Sader R, Zeilhofer HF (Basel / Switzerland)

10.10 **Facial esthetics: orthodontic and orthopedic impact on growth, profile and perception**

Brauchli L, Wichelhaus A (Basel / Switzerland)

10.25 **Facial disfigurement after severe injuries – can we achieve a concordance between the new appearance after the reconstructive surgery procedures and identity?**

Kovács L, Zeilhofer HF, Biemer E (Munich / Germany; Basel / Switzerland)

10.40 **Imagines between wax and synthetics**

Varady-Prinich D (Halle / Germany)

10.50 **Discussion**

11.00 – 11.30 **Coffee Break – Visit of the Industrial Exposition**

11.30 – 13.30 **Future innovations**

11.30 **The art of financing new medical innovations in times of financial pressure: Economic evaluation research – a new field in oro-maxillofacial surgery?**

Walendzik H, Dunsche A (Karlsruhe / Germany)

11.45 **Patent: The way to protect inventions**

Saldamli S (Munich / Germany)

12.15 **ROUND TABLE WITH EXPERTS:**

**Future technologies for cranio-maxillofacial surgery and dentistry**  
**Participants:** Gebhardt A (Aachen / Germany), Heinzl J (Munich / Germany), Jaeger CR (Freiburg i. Br / Germany), Ewers R (Vienna / Austria), Marsh JL (St Louis / USA), Zeilhofer HF (Basel / Switzerland)

13.30 **Closing ceremony:**

**Bernd Spiessl Awards for the best lecture and the best poster**

17.00 **Garden Party**

at Hightech Research Center of Cranio-Maxillofacial Surgery Basel (HFZ)



Betha Sarasin: „Drei mit grossem Maul“

### **SPECT-CT: The inside out of a face**

Boerner BI, Schwenger-Zimmerer K, Jürgens P, Berg S  
(Basel / Switzerland)

### **Extended reality - An art project**

Multimedia-presentation by Giger C and Dannemann C  
(Zürich / Switzerland)

### **„Mediate“ 3D-Modelling of Dental Anatomy for Mandibular Finite Element Simulation**

Kober C, Stübinger S, Sader R and Zeilhofer HF  
(Osnabrueck, Frankfurt M / Germany, Basel / Switzerland)

### **E-Learning in Cranio-Maxillofacial Surgery at the University of Zurich.**

#### **An educational project based on VAM – The virtual platform for education in Medicine**

Lübbbers HT, Danilevicz D, Thieringer F, Luder M, Langedijk A, Grätz KW  
(Zürich, Basel / Switzerland)

### **Effect of Medium Glucose Concentration on the Proliferation of Human Gingival Fibroblasts**

Saldamli B, Jürgens P, Moraes V, Stübinger S, Klotz S, Sader R and Zeilhofer HF  
(Basel / Switzerland, Frankfurt M / Germany, Munich / Germany)

### **Threedimensional surface scanning with an ultrashort pulsed holographic system**

Seewald T, Hirsch S, Hering P, Zeilhofer HF, Schwenger-Zimmerer K  
(Basel / Switzerland, Bonn / Germany)

### **Physiognomic characters from Giambattista Della Portas**

#### **„De Humana Physiognomia“**

Multimedia-presentation by Schneider H, Schwenger-Zimmerer K, Zeilhofer HF  
(Basel / Switzerland)

### **Removal of displaced third molars with a fiber guided Er: YAG laser**

Stübinger S, Saldamli B, Jürgens P, Bornand C, Sader R, Zeilhofer HF  
(Frankfurt M / Germany, Basel / Switzerland)

### **Bone healing after computer assisted CO<sub>2</sub> laser osteotomy - an animal experiment in the sheep tibia with short pulsed CO<sub>2</sub> laser pulses**

Stübinger S, Sader R, Kuttenberger JJ, von Rechenberg B, Ivanenko M, Hering P and Zeilhofer HF  
(Frankfurt M, Bonn / Germany, Basel / Switzerland)

### **Cranionline.ch – cranio-maxillo-facial surgery**

#### **A swiss virtual campus e-learning project for medical teaching and cme**

Thieringer F, Zeilhofer HF, Lübbbers HT, Fritsch M, Bachmann G, Dittler M, Glatz D, Sader R  
(Basel, Zürich / Switzerland, Frankfurt M / Germany)



Mittlere Rheinbrücke, Basel

One of the most outstanding books published by Bernd Spiessl is the „Manual for Osteosynthesis“. This manual gives a general survey of the principles of osteosynthesis and the classification of fractures. In casuistics and more than 400 illustrations the author describes a successful approach to reconstructive surgery.

The sketches of the book are mainly based on little notes Bernd Spiessl took whenever he had flash genius during work. Together with his then collaborator Stephan Hauk (today a maxillofacial surgeon near Frankfurt / M, Germany) Bernd Spiessl finalized the drafts. Afterwards Hauk collected the drawings, which are now a unique treasure.

During our symposium we will present a selection of the illustrations and their history in the exhibition „Bernd Spiessl's studio: Views and insights“.



Bernd Spiessl (1921 - 2002)

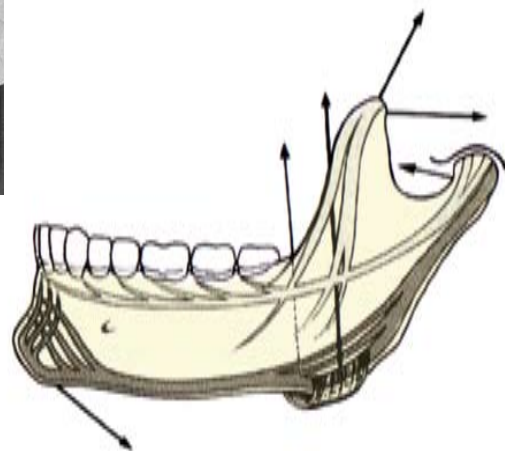


Illustration from the Manual "Osteosynthesis of the Mandible"

### Exclusive for the Bernd-Spiessl-Symposium

June 17<sup>th</sup> 2006, 19.30 | Kunstmuseum Basel

For the first time in almost five decades an important part of the extant works from



Hans Holbein the Younger (1497/98–1543): „Lais von Korinth“

Holbeins Basel years from 1515 to 1532 is presented in an extraordinary collection of some forty paintings, one hundred drawings and numerous prints.

Among the significant loans there are the Darmstadt Madonna, the Solothurn Madonna and the Oberried Altar from the cathedral in Freiburg, Germany, as well as portraits from Holbeins first stay in England, for example those of Anne Lovell from London; Lady Mary Guildford from St. Louis, Missouri; and Thomas Godsalue with his son John from Dresden.

Hans Holbein the Younger (1497-1543) was born in Augsburg, Bavaria, he received his first lessons in art from his father. In 1515 the younger Holbein went to Basel with his brother, Ambrosius. Among the many scholars living in Basel at that time was the

famous Dutch humanist Erasmus, who befriended the young artist and asked him to illustrate his satire, *Encomium Moriae* (The Praise of Folly).

Holbein also illustrated other books, including Martin Luther's German translation of the Bible. In addition he painted pictures and portraits and, like his father, designed stained-glass windows. He also created designs for a series of 41 woodcuts called *The Dance of Death*.

... but you have to laugh for yourself!

Poetry – Earnestness – Life wisdom – Lightness – Optimism: in one word **Pello**

For more than 30 years Pello, the swiss clown, mime and (mask) artist takes his audience into a different exciting universe: amusing, virtuosic, sensitive, empathetic – but still with a waggish twinkling in his eyes.

His scientific activities are about the different kinds and the history of humour, as well as psychological-social effects. He divertifies his therapeutical pantomimes like a kaleidoscope using a palette of human faces and their expression. Using these techniques he disrupts the tight categories of thinking in everyday life and presents a mirror to the audience in a charming way.

In every human face it's history, it's hate and it's love is written in distinctive words. Pello changes his appearance, character, face and identity in a virtuoso performance. Using his gifts, he will provide the Bernd-Spiessl-Symposium with his own different impulses. He will change perspectives and raise a smile.



The first Bernd-Spiessl-Symposium already obtained a special view of the artist Betha Sarasin (Basel). Last year her exhibition about face and identity presented different heads and mythic figures. This year Betha Sarasin will present works from a cycle of the lagoon in Venice.

In relation to this place she creates metaphors for the human soul using pictures of water. This element primarily presents the source of life but has also an ambivalent character: life giving and in the same way a destroying aspect – this is a conflict which forms the human character in an impressive way.

Water stands for the incomprehensible soul, symbol of unconsciousness, for feelings, dreams and intuition. This medium is the main theme of countless myths as seen in the greek saga of Narziss who has fallen in love with his picture reflected in the water. Keeping this in mind we have to create a resonance between the works of Betha Sarasin and ourself. We will discover the links between artist and observer, the mirror which offers deep cognitions.

At the 2<sup>nd</sup> Bernd-Spiessl-Symposium 2006 you will have the opportunity to meet Betha Sarasin and enjoy a selected collection of her pictures.



Betha Sarasin: „Die rote Lagune“

### Conf. Dr. Dr. Mihaela Baciut

Clinic of Cranio-Maxillofacial Surgery  
University of Medicine and Pharmacy  
„Iuliu Hatieganu“  
Str. Cardinal Iuliu Hossu, RO-3400 Cluj-Napoca  
Email: mbaciut@yahoo.com

### Prof. Dr. Dr. Grigore Baciut

Clinic of Cranio-Maxillofacial Surgery  
University of Medicine and Pharmacy  
„Iuliu Hatieganu“  
Str. Cardinal Iuliu Hossu, RO-3400 Cluj-Napoca  
Email: gbaciut@umfcluj.ro

### MSME Stanley Baksi

Otto von Guericke Universität  
Institut für Maschinenkonstruktion /  
Konstruktionstechnik  
Universitätsplatz 2, D-39016 Magdeburg  
Email: stanley.baksi@mb.uni-magdeburg.de

### Dr. Arthur Thomas Bens

Stiftung caesar, center of advanced european  
study and research  
Ludwig-Erhard-Allee 2, D-53175 Bonn  
Email: bens@caesar.de

### Prof. Dr. Gottfried Boehm

Kunsthistorisches Seminar  
Universität Basel  
Im Laurenz-Bau  
St. Alban-Graben 8, CH-4051 Basel  
Email: gottfried.boehm@unibas.ch

### Isabelle Boerner, MD

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Schanzenstr. 46, CH-4031 Basel  
Email: boerner@uhbs.ch

### Dr. Dr. Lorenz Brauchli

Klinik für Kieferorthopädie und Kinder-  
zahnmedizin, Universität Basel  
Hebelstrasse 3, CH-4056 Basel  
Email: lorenz.brauchli@unibas.ch

### Prof. Dr. Carlos Buitrago-Téllez

Spital Zofingen, Radiologie  
Mühlethalstr. 27, CH-4800 Zofingen  
Email: carlos.buitrago@spitalzofingen.ch

### Susanne Codoni

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: susanne.codoni@bluewin.ch

### Dr. Carlo Conti

Governor of the State Basel-City  
Head of the Health Department of Basel-City  
St. Alban-Vorstadt 25, CH-4052 Basel  
Email: carlo.conti@bs.ch

### Christine Dannemann, MD

University Hospital Zürich  
Dept. of Maxillofacial Surgery  
Rämistr. 100, CH-8091 Zürich  
Email: christine.dannemann@usz.ch

### Conf. Dr. Dr. Lucia Hurubeanu

Clinic of Cranio-Maxillofacial Surgery  
University of Medicine and Pharmacy  
„Iuliu Hatieganu“  
Str. Cardinal Iuliu Hossu, RO-3400 Cluj-Napoca  
Email: hurubeanulucia@yahoo.com

### Dr. Raimund Jaeger

Fraunhofer-Institut für Werkstoffmechanik  
Biomedizinische Materialien und Implantate  
Wöhlerstr. 11, D-79108 Freiburg  
Email: Raimund.Jaeger@iwf.fraunhofer.de

### Dr. Dr. Claude Jaquiéry

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: jaquiere@uhbs.ch

### Dr. Philipp Juergens

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: juergensp@uhbs.ch

### Dr. Daniel Kalbermatten

Dept. of Plastic and Reconstructive Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: kalbermatten@uhbs.ch

### Prof. DDr. Rolf Ewers

University Hospital  
for Cranio Maxillofacial and Oral Surgery  
Medical University of Vienna  
Währinger Gürtel 18-20, A-1090 Wien  
Email: rolf.ewers@cmf-ewers.com

### Prof. Mag. Dr. Wolfgang Freysinger

Department of Otorhinolaryngology  
University Innsbruck  
Anichstr. 35, A-6020 Innsbruck  
Email: wolfgang.freysinger@uibk.ac.at

### Prof. Dr.-Ing. Andreas Gebhardt

Department of Mechanical Engineering and  
Mechanics  
University of Applied Sciences Aachen  
Goethestr. 1, D- 52064 Aachen  
Email: gebhardt@fh-aachen.de

### Prof. Dr. Joachim Heinzl

Bayerische Forschungsstiftung  
Prinzregentenstr. 7  
D-80538 München  
Email: forschungsstiftung@bfs.bayern.de

### Prof. Dr. Peter Hering

Institut für Lasermedizin  
Universität Düsseldorf  
Universitätsstr. 1, D-40225 Düsseldorf  
Email: hering@uni-duesseldorf.de

### PD Dr. Dr. Cornelius Klein

Klinik für Mund-, Kiefer und Plastische  
Gesichtschirurgie  
Johann Wolfgang Goethe-Universität  
Theodor Stern Kai 7, D-60590 Frankfurt / M  
Email: c.klein@em.uni-frankfurt.de

### Prof. Dr. Cornelia Kober

Faculty of Engineering and Computer Science  
University of Applied Science Osnabrueck  
Albrechtstr. 30, P.O.Box 1949, D-49009 Osnabrück  
Email: c.kober@fh-osnabrueck.de

### Dr. Laszlo Kovács

Clinic of Plastic Surgery  
Klinikum rechts der Isar  
University of Technology Munich  
Ismaningerstr. 22, D-81675 München  
Email: l.kovacs@lrz.tu-muenchen.de

### Prof. Dr. Dr. Otto Kriens

Marcusallee 22A  
D-28359 Bremen  
Email: okriens@arcor.de

### Prof. Dr. Joachim Küchenhoff

Psychiatrische Universitätsklinik (PUK)  
Wilhelm-Klein-Str. 25, CH-4025 Basel  
Email: joachim.kuechenhoff@unibas.ch

### Dr. Dr. Christoph Kunz

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: kunzc@uhbs.ch

### Prof. Dr. Dr. J. Thomas Lambrecht

Department of Oral Surgery, Oral Radiology and  
Oral Medicine, University of Basel  
Hebelstrasse 3, CH-4056 Basel  
Email: J-Thomas.Lambrecht@unibas.ch

### Dr. Dr. Christoph Leiggener

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: leiggenerc@uhbs.ch

### Dr. Heinz-Theo Lübbers

Klinik für Kiefer- und Gesichtschirurgie,  
University Hospital Zurich  
Rämistrasse 100, CH-8091 Zürich  
Email: heinz-theo.luebbers@usz.ch

### Dr. Rudolf Meyer

Coordinator Fraunhofer-Allianz  
Rapid Prototyping  
Sandtorstrasse 22  
D-39106 Magdeburg  
meyer@iff.fraunhofer.de

### Didier-David Malis DMD, MD

Assistant Professor  
Department of Oral & Maxillofacial Surgery  
University of Texas HSC-Houston  
6516 MD Anderson Blvd, Suite 2.059  
Houston, TX 77030, USA  
Email: Didier-David.Malis@uth.tmc.edu

### Jeffrey L Marsh, MD

Clinical Professor of Plastic Surgery,  
St. Louis University School of Medicine  
Kids Plastic Surgery  
621 S. New Ballas Rd., Ste. 260A  
St. Louis MO 63141 USA  
Email: marsjl@stlo.mercy.net

### Prof. Dr. Peter J. Meier-Abt

Vize-Rector  
Vice-Rectorate Research  
University Basel  
Petersgraben 35, CH-4003 Basel  
Email: Peter.Meier-Abt@unibas.ch

### Dr. Wilhelm Meiners

Fraunhofer Institut für Lasertechnik  
Steinbachstr. 15., D-52074 Aachen  
Email: meiners@iff.fraunhofer.de

### Dr. Marc Christian Metzger MD

Dept. of Cranio-Maxillofacial Surgery  
University Hospital Freiburg  
Hugstetter Str. 55, D-79106 Freiburg  
Email: metzger@zmk2.ukl.uni-freiburg.de

### Prof. Alois Müller

Academy of Art and Design Basel  
University of Applied Sciences  
Vogelsangstrasse 15, CH-4021 Basel

### Dr. Gunther Notni

Fraunhofer-Institut für Angewandte Optik und  
Feinmechanik – IOF Jena  
Albert-Einstein-Str. 7, D-07745 Jena  
Email: gunther.notni@iof.fraunhofer.de

### Prof. Sibylle Omlin

Hochschule für Gestaltung und Kunst (HGK)  
Abteilung Bildende Kunst Medienkunst  
Offenburgerstr. 1, CH-4057 Basel  
Email: s.omlin@fhnw.ch

### Ferenc Pongrácz

Computer and Automation Research Institute  
Zerind Vezér ut 29/B, H-1029 Budapest, Hungary  
Email: pongraczf@t-online.hu.

### Prof. Dr. André Perruchoud

Dean of the Faculty of Medicine  
University Basel  
Klingelbergstr. 23, CH-4031 Basel  
Email: perruchouda@uhbs.ch

### Raby Fiona MA

Department of Computer Related Design  
Royal College of Art, London GB  
Email: fionar@rca-crd.demon.co.uk

### Prim. Prof. DDr. Michael Rasse

Klinische Abteilung für Mund-, Kiefer- und  
Gesichtschirurgie  
Universitätsklinik für Zahn-, Mund- und  
Kieferheilkunde  
Maximilianstr. 10, D-6020 Innsbruck  
Email: michael.rasse@uklibk.ac.at

### Dr. Hans-Jürgen Richter

Fraunhofer-Institut für Keramische Technologien  
und Systeme IKTS  
Winterbergstr. 28, D-01277 Dresden  
Email: Hans-Juergen.Richter@ikts.fraunhofer.de

### Prof. Dr. Dr. Michel Richter

Service de Chirurgie Maxillo-Faciale et  
Chirurgie Buccale  
Hôpitaux Universitaires de Genève  
Rue Micheli-du-Crest 24, CH-1211 Genève 14  
Email: Michel.Richter@hcuge.ch

### Dr. Dr. Horatiu Rotaru

Clinic of Cranio-Maxillofacial Surgery  
„Iuliu Hatieganu“ University of Medicine and  
Pharmacy  
Str. Cardinal Iuliu Hossu, RO-3400 Cluj-Napoca  
Email: hrotaru@yahoo.com

### Prof. Dr. Dr. Robert Sader

Klinik für Mund-, Kiefer und Plastische  
Gesichtschirurgie  
Johann Wolfgang Goethe-Universität  
Theodor Stern Kai 7, D-60590 Frankfurt / M  
Email: r.sader@em.uni-frankfurt.de

### Prof. Dr. Dr. Dr. h.c. Hermann F. Sailer

Spezialklinik für Ästhetische Gesichts-, Kiefer-  
und Oralchirurgie  
Toblerstr. 51, CH-8044 Zürich  
Email: sailer@sailerclinic.com

### Belma Saldamli, DDS

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: saldamlib@uhbs.ch

### Saltuk Saldamli, PhD

European Patent Office  
Bayerstr. 34, D-80335 Munich  
Email: ssaldamli@epo.org

### Dr. Dirk Johannes Schaefer

Department of Plastic and Reconstructive  
Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: schaeferdj@uhbs.ch

### Prof. Dr. Dr. Wilfried Schilli

Klinik u. Poliklinik für MKG-Chirurgie  
Universität für ZMK-Heilkunde  
Horbenerstr. 27, D-79100 Freiburg i. Br.  
Email: schilliw@gmx.de

### Prof. Dr. Dr. Rainer Schmelzeisen

Klinik für Mund-, Kiefer-  
und Gesichtschirurgie  
Albert-Ludwigs-Universität Freiburg  
Hugstetter Str. 55, D-79095 Freiburg  
Email: schmelz@zmk2.ukl.uni-freiburg.de

### Dr. Hilke Schneider

Oefelestr. 5  
D-81543 München  
Email: hilke.schneider@gmx.de

### Dipl. Ing. HTL Ralf Schumacher

Fachhochschule Nordwestschweiz  
Hochschule für Life Sciences  
Institut für Medizinal- und Analysetechnologie  
St. Jakobsstr. 84, CH-Muttenz  
Email: r.schumacher@fhnw.ch

### Dr. Stefan Stübinger

Klinik für Mund-, Kiefer und Plastische  
Gesichtschirurgie  
Johann Wolfgang Goethe-Universität  
Theodor Stern Kai 7, D-60590 Frankfurt / M  
Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: stuebingers@uhbs.ch

### Prof. Dr. Sylvie Testelin

Hôpital Nord  
Service de Chirurgie Maxillo-facial  
Place victor Pauchet  
F-80054 Amiens cedex 1, France  
Email: Testelin.sylvie@chu-amiens.fr

### Florian Thieringer, MD

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
HFZ Center of Advanced Studies in Cranio-  
Maxillofacial Surgery  
University of Technology, Munich  
Email: ft@hotmed.de

### Matteo Tutino, MD

Department of ENT, Clinic of Plastic &  
Craniofacial Surgery  
„Azienda Universitaria Policlinico P. Giaccone“  
University of Palermo - Italy  
Plastic and Craniofacial Surgery  
Via Sarmartino 55, I-90141 Palermo  
Email: mtutino@neomedial.it

### Prof. Dr. Dr. Dr. h.c. Norbert Schwenzer

Chirurgische Privatklinik Solitude GmbH  
Solitudestr. 24, D- 71638 Ludwigsburg  
Email: norbert.schwenzer@uni-tuebingen.de

### Dr. Dr. Katja Schwenzer-Zimmerer

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: kschwenzer@uhbs.ch

### Thoralf Seewald

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: tseewald@bwh.harvard.edu

### Dr. S. Palinder Singh

Assoc. Professor  
Dept. of Orthodontics  
Oral Health Sciences Center  
PGIMER-Chandigarh, India  
Email: drspsingh\_chd@yahoo.com

### Prof. Dr. Angelika Stellzig-Eisenhauer

Department of Orthodontics  
University of Würzburg  
Pleicherwall 2, D-97070 Würzburg  
Email: stellzig\_a@klinik.uni-wuerzburg.de

### Dagmar Varady-Prinich

Karl-Liebknecht-Strasse 19  
D-06114 Halle/Saale

### Dr. Hartmut Walendzik

Abt. Mund-, Kiefer- und Gesichtschirurgie  
Städtisches Klinikum Karlsruhe  
Moltkestr. 120, D-76133 Karlsruhe  
Email: walendzikch@t-online.de

### Prof. Dr. Dr. Dr. h.c. Konrad Wangerin

Klinik für Mund-, Kiefer- und Plastische  
Gesichtschirurgie  
Zentrum Plastische Chirurgie  
Marienhospital  
Böheimstr. 37, D-70199 Stuttgart  
Email: konradwangerin@vinzenz.de

### PD Dr. Helmut Wicht

Dr. Senckenbergische Anatomie  
Johann Wolfgang Goethe-Universität  
Theodor Stern Kai 7, D- 60590 Frankfurt am Main  
Email: Wicht@em.uni-frankfurt.de

### Martin Wiedmer

Institut Design- und Kunstforschung IDK  
Fachhochschule Nordwestschweiz FHNW  
Abteilung Innenarchitektur  
Spitalstrasse 8, CH-4031 Basel  
Email: m.wiedmer@fhnw.ch

### Prof. Dr. Dr. Dr. h.c. Hans-Florian Zeilhofer

Dept. of Cranio Maxillofacial Surgery  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Spitalstr. 21, CH-4031 Basel  
Email: hfzeilhofer@uhbs.ch

### Prof. Dr. Christoph P. E. Zollikofer

Anthropological Institute  
University of Zürich  
Winterthurerstrasse 190  
CH-8057 Zürich  
Email: zolli@aim.unizh.ch

### Executive Committee

Hans-Florian Zeilhofer  
J. Thomas Lambrecht  
Alois Müller

### Congress Venue

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

### Responsible for industrial exhibition

Philipp Jürgens  
Email: pjuergens@uhbs.ch  
Stefan Stübinger  
Email: sstuebinger@uhbs.ch

### Public Relations

Irmis Schwartz (Press)  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Tel. +41 61 265 96 39  
Fax. +41 61 265 96 56  
Email: ischwartz@uhbs.ch  
Florian Thieringer (Layout | Webmaster)  
HFZ Center of Advanced Studies in CMF Surgery  
Email: ft@hotmed.de

### Congress secretariat

Sigrid Ayadi  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel  
Schanzenstrasse 46, CH-4031 Basel | Switzerland  
T +41 61 265 96 40  
F +41 61 265 96 56  
E-Mail: sayadi@uhbs.ch

### Conference Fees

Regular, SFr 300,00  
Assistant doctors, SFr 150,00  
Day Ticket, SFr 100,00  
Seniors, SFr 50,00  
Students, -- free --  
Gala Dinner, Saturday, 17<sup>th</sup> June, SFr 100,00

### Hotel reservation

<http://www.baseltourismus.ch>

### Industrial Exhibition

Zentrum für Lehre und Forschung (ZLF)

### Organization Committee

Andreas Filippi  
Marion Fink  
Claude Jaquiéry  
Philipp Jürgens  
Rudolf Meyer  
Katja Schwenger-Zimmerer  
Stefan Stübinger  
Martin Wiedmer

### Editor

Hans-Florian Zeilhofer  
HFZ Hightech Research Center of CMF Surgery  
University Hospital Basel

### Editorial staff

Irmis Schwartz  
Florian Thieringer  
Susanne Zeilhofer  
Isabelle Börner  
Thoralf Seewald  
Stefan de Maddalena (Photographer)

# Site plan | city map

## Venue

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



## Registration

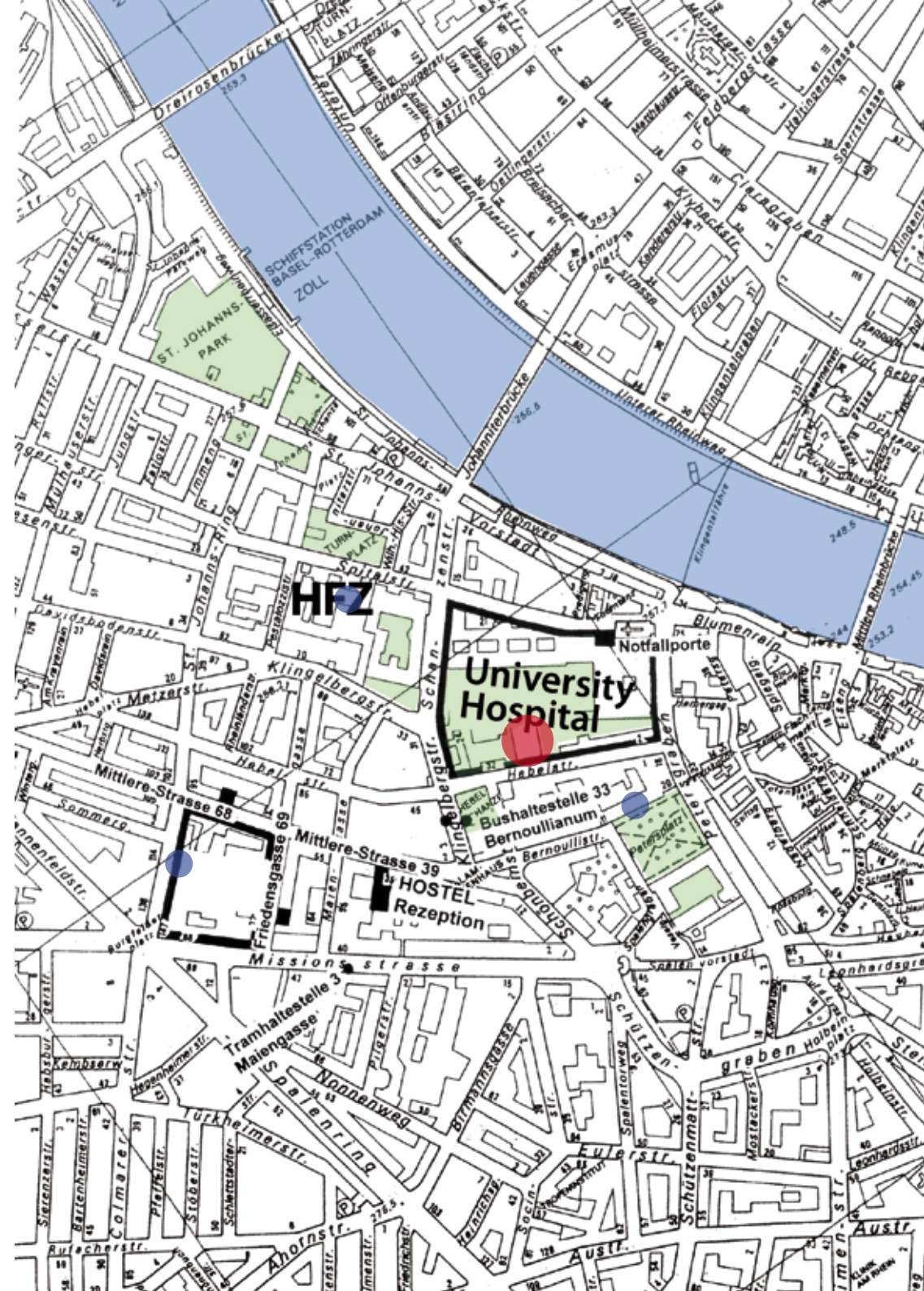
ZLF, foyer, ground floor

## Industrial exhibition

Zentrum für Lehre und Forschung (ZLF)  
 foyer, ground floor



- |   |  |   |
|---|--|---|
| <b>A</b> Klinikum 2, Behandlungsbau<br>Café, Coffeure         | <b>H</b> Rosetti<br>Spitalstr. 26                            | <b>O</b> Personalrestaurant, Cafeteria                            |
| <b>B</b> Klinikum 2, Bettenhaus (Medizin)                     | <b>I</b> Bettenhaus 3, Geriatrische Uni.-Klinik              | <b>S</b> Markgräferhot, Geriatrische Uni.-Klinik                  |
| <b>C</b> Operationstrakt                                      | <b>K</b> Verwaltung, Hebelstr. 34+36                         | <b>T</b> Gyrgarten, Geriatrische Uni.-Klinik                      |
| <b>D</b> Klinikum 1, Behandlungsbau                           | <b>L</b> Direktion, Hebelstr. 32                             | <b>U</b> Personalarzt   |
| <b>E</b> Klinikum 1 Ost, Bettenhaus (Chirurgie)<br>Café, Post | <b>M</b> Institut für Pathologie, Schönbeinstrasse 40        | <b>V</b> Klingelbergstrasse 61, Berufsschulen im Gesundheitswesen |
| <b>F</b> Frauenklinik   | <b>N</b> Zentrum für Lehre und Forschung (ZLF), Hebelstr. 20 | <b>W</b> Klingelbergstrasse 23, Berufsschulen im Gesundheitswesen |
- Einfahrt City-Parking ←



3<sup>rd</sup> International Bernd-Spiessl-Symposium  
for Innovative and Visionary Technologies  
„Implantology and Imaging“

June Friday 15<sup>th</sup> – Sunday 17<sup>th</sup> 2007

Basel / Switzerland,

simultaneously with the ART Basel, the world's most famous art fair



[www.bernd-spiessl-symposium.com/2007](http://www.bernd-spiessl-symposium.com/2007)

**Vorträge online**

Für Aufzeichnungen von Bild, Ton und Folienpräsentation (z.B. PowerPoint) vor Ort mit Kamera, Ton und Beleuchtung. Mit der Software «PLAY» zeichnen wir Ihre Veranstaltung als Online-Vortrag auf.



Aufzeichnen



Produzieren



Abspielen

Solutionpark bietet Ihnen ein schlüsselfertiges Produkt von der Aufzeichnung von Bild und Ton vor Ort bis zur Internet-Verteilung zu Ihren Kunden. In bester Qualität, störungsfrei, zuverlässig, sicher und kostengünstig.

**Anwendungen von «PLAY»:**

- Medizinische Weiterbildungen
- Podiumsdiskussionen
- Haupt- und Generalversammlungen
- Kongresse und Seminare
- Pressekonferenzen
- Finanz- und Börseninformationen

**Ihre Vorteile:**

- Verdoppeln Sie die Zahl Ihrer Zuschauer
- Überzeugen Sie mit Online-Vorträgen, die nach Ihren Vorgaben gestaltet sind.
- Informieren Sie schnell und weltweit, zeit- und ortsunabhängig.
- Profilieren Sie sich durch die Anwendung neuer Medien.
- Nutzen Sie professionelle Technik.
- Profitieren Sie von unserer Erfahrung.

Besuchen Sie unseren Showcase im Internet auf [www.solutionpark.ch](http://www.solutionpark.ch).

Als Ansprechpartner für Sie steht der Projektleiter direkt zu Verfügung.

solutionpark streaming gmbh, Gartenhofstrasse 15, CH-8004 Zürich, Schweiz  
+41 44 446 3060, [streaming.solutionpark.ch](http://streaming.solutionpark.ch), [info@solutionpark.ch](mailto:info@solutionpark.ch)

**Synthes Distractors.** Premium Quality. Modular.  
Reliable.



Maxillary Distractor



Alveolar Distractor

 **SYNTHES**®

Original Instruments and Implants of the Association  
for the Study of Internal Fixation – AO/ASIF

Synthes GmbH  
Eimattstrasse 3, 4436 Oberdorf  
Tel. +41 61 965 66 66  
verkauf.schweiz@synthes.com  
www.synthes.com