PROGRAM

15th International Bernd Spiessl-Symposium

14 – 15 June 2019, University Hospital Basel, Switzerland

for Innovative and Visionary Technologies in Cranio-Maxillofacial Surgery

FACE AND IDENTITY – THE DIGITAL FUTURE OF MEDICINE

▶ bss-15.sciforum.net
Supporters of Bernd Spiessl-Symposium 2019
We have the pleasure to announce the 15th International Bernd Spiessl-Symposium. Under the Theme “Innovation meets Art” there will be a focus on face and identity as every year as well as the digital future of medicine. Raising new fields at the interface between Life Sciences and MedTech will be given a platform to nurture interdisciplinary collaboration between medical doctors, scientists, engineers, start-ups and the private industry.

Innovative and visionary technologies in Cranio-Maxillofacial Surgery will be presented from Friday, 14 June to Saturday, 15 June 2019 at the University Hospital Basel, Zentrum für Lehre und Forschung (ZLF), Hebelstrasse 20, Basel, Switzerland.

The International Bernd Spiessl-Symposium is one of the leading conferences for Innovative and Visionary Technologies in Cranio-Maxillofacial Surgery. The concept unites practical science with highly qualitative academic value which is recognizable in its diversity on topics such Face & Identity, Next Generation of Education, Care Concepts of the Future, Smart Implants, Internet of the Body, Robotics, Archeomedicine, Artificial Intelligence, Blockchain Technology, Implantology & Navigation, Clefts, 3D Printing and interesting Free Topics.

There is a saying:

«Art leads to scientific and medical innovation – science and medicine inspire art.»

This is the spirit of the conference. Art performances and music improvisation will be an integrative part of the conference.

Traditionally, our cultural program starts on Thursday evening with an aperitif and a Swiss vernissage. The next evening we invite you to our favorite Gala Dinner at the Wildt’sche Haus. On Saturday, we start our cultural racer, the guided tour through the Art Basel 2019. The congress program ends, as every year, with our traditional Garden Party.

We look forward to meeting you at our exciting scientific event.

H.-F. Zeilhofer
Dept. of Cranio-Maxillofacial Surgery & HighTech Research Center, University Hospital Basel
# Program Overview

## Thursday, 13 June 2019

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>18:30</td>
<td>Memorial Service for Bernd Spiessl</td>
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<tr>
<td>19:30</td>
<td>Get together with Apéro Riche &amp; Vernissage</td>
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## Friday, 14 June 2019

### Kleiner Hörsaal (ZLF)

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<tbody>
<tr>
<td>08:30</td>
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<tr>
<td>09:30</td>
<td>Opening of the Scientific Program</td>
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<tr>
<td></td>
<td>Hans-Florian Zeilhofer</td>
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<tr>
<td>09:45</td>
<td>Bernd Spiessl-Lecture</td>
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<td>Frederic Fol Leymarie</td>
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<td>University of London, UK</td>
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<tr>
<td>10:15</td>
<td>Coffee Break</td>
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<tr>
<td>10.30</td>
<td>SESSION 1: FACE AND IDENTITY</td>
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<td>Doubt and Certainty in Oncology</td>
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<td>Peter Kessler</td>
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<td>University Medical Center, Maastricht, Netherlands</td>
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<td>Face graft? Extrapolation of Facial</td>
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<td>Allottransplantation to Children</td>
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<td>Bernard Devauchelle</td>
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<td>University Hospital Amiens, France</td>
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<td></td>
<td>Luc Tissot</td>
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<td>Tissot Medical Research, Switzerland</td>
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<td>Cornelia Kober</td>
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<td>Professor I.R., University of Applied Sciences</td>
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<td>Hamburg, Germany</td>
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<tr>
<td>11.30</td>
<td>Table Sessions</td>
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<tr>
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<td>1. Miodrag Savic</td>
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<td>2. Samarth Shetty</td>
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<td>3. Till R. Kuhnle / Lindsey G. Zeichner</td>
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<td></td>
<td>4. Christoph Blecher / Irena Seelig</td>
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### 12:30 Lunch

### 13:30 SESSION 2: DIGITAL FUTURE & MEDICINE/ROBOTICS

#### CHAIR: PHILIPPE CATTIN UND GEORG RAUTER

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<td>University of Bern, Switzerland</td>
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#### CARLO

Cyrill Batscher, Advanced Osteotomy Tools, Basel, Switzerland & Philippe Cattin, University of Basel, Switzerland & Hans-Florian Zeilhofer, University Hospital Basel, Switzerland

#### Status Quo of Minimal Invasive Semi-automatic Robotic Laser Osteotomy

Georg Rauter, Department Biomedical Engineering, Allschwil, University of Basel, Switzerland

#### Pepper & Nao: First Impressions of their use in Healthcare

Jean Christophe Gostanian, Claudio Paul Avatarion Technology AG, Zürich, Switzerland

### 14:30 Coffee Break

### 15:00 Table Sessions

1. Ivan Susić - “Tri-axial Force Sensor for Endoscopic Palpation in Minimally Invasive Interventions.”
2. Lorin Fasel - “Vision-based Control of a Robotic Endoscopy”
4. Lorenzo Ifolla / Massimiliano Filipozzi “ASTRAS – a novel high accuracy angle sensor for medical applications”
5. Arsham Hamidi / Ferda Canbaz “Wireless Optical Coherence Tomography”

### 17:00 Special Lecture

Poet Doctors
**Friday, 14 June 2019**

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**Saturday, 15 June 2019**

**Kleiner Hörsaal (ZLF)**

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| 09:00 | **SESSION 3: DIGITAL FUTURE OF MEDICINE / CYBER SECURITY**  
   A People-centered Approach to Maxillofacial Prosthetics  
   David Trainer  
   University of Miami Jackson Memorial Medical Center, USA  
   Faces & Feelings: Exploring the Uncanny Valley  
   Samuel J. Zeichner  
   Centre de Radiologie Maxillo-Facial Vevey, Switzerland  
   Gaming for Better Diagnostics - a Game Changer for Healthcare and the Use of Personal Data  
   Christian Vogler  
   Advancience, Allschwil, Switzerland  
   Who Owns and Controls the Data? - Legal Dimensions of Artificial Intelligence and Questions on Access, Control, Ownership and Legal Use of Data in Digitalized Medicine  
   Claudia Seitz  
   University of Basel, Faculty of Law, Switzerland  |
| 10:00 | Coffee Break                               |
| 10:30 | Table Session                              |
|       | Team Advancience                           |
| 11:30 | **SESSION 4: DIGITAL FUTURE OF MEDICINE/DENTISTRY**  
   Title  
   Stefan Stübinger  
   Department Biomedical Engineering  
   University Basel, Switzerland  
   3D Printing in Cranio-Maxillo-Facial Surgery – Top or Flop?  
   Florian Thieringer  
   University Hospital Basel, Switzerland  |
| 12:30 | Lunch                                      |
| 13:30 | **SESSION 5: DIGITAL FUTURE MEETS HUMANITY**  
   Spiritual Care for Informal Caregivers – a Relief Programme in Community Care  
   Dr. Alexander Bischoff  
   University of Geneva, Switzerland  
   Christoph Leiggener  
   Cantonal Hospital Aarau, Switzerland  
   Craniofacial Kinetic Science MAS  
   Hans-Florian Zeilhofer  
   University Hospital Basel, Switzerland  
   Master Students of Craniofacial Kinetic Science  |
<p>| 14:30 | Table Session                              |
| 15:30 | Guided Tour Art Basel                      |
| 18:00 | Farewell Party                             |</p>
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Scientific Program

Kleiner Hörsaal (ZLF)

08:30  Registration

09:30  Opening of the Scientific Program
      Chair: Hans-Florian Zeilhofer, University Hospital of Basel, Switzerland

09:45  Bernd Spiessl-Lecture
      Frederic Fol Leymarie, University of London, UK

10:15  Coffee Break

10:30 – 11:30  Session 1: Face and Identity

  **Doubt and Certainty in Oncology**
  Peter Kessler, University Medical Center, Maastricht, Netherlands

  **Face graft? Extrapolation of Facial Allotransplantation to Children**
  Bernard Devauchelle, University Hospital Amiens, France

  **Title**
  Luc Tissot, Tissot Medical Research, Switzerland

  **Any Tool is only as clever as its user**
  Cornelia Kober, Professor i.R., University of Applied Sciences Hamburg, Germany

11.30 – 12.30  Table Sessions

  Miodrag Savic, University Hospital Basel, Switzerland

  Samarth Shetty, Narayana Medical Centre, Bangalore, India

  Till R. Kuhnle, E.H.I.C. Université de Limoges, France &
  Lindsey G. Zeichner, E.H.I.C. Université de Limoges, France

  Christoph Blecher, Cranioform AG, Berlin, Germany &
  Irena Seelig University of Basel, Allschwil, Switzerland

12.30 – 13.30  Lunch
Day 1 – Afternoon  
Friday, 14 June 2019

Chair: Philippe Cattin und Georg Rauter

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14:30  Coffee Break

15:00 – 17:00  Table Sessions

| Tri-axial Force Sensor for Endoscopic Palpation in Minimally Invasive Interventions | Ivan Susič, University of Basel, Allschwil, Switzerland |
| Vision-Based Control of a Robotic Endoscopes | Lorin Fasel, University of Basel, Allschwil, Switzerland |
| The Walking Minimally Invasive Robot for Laserosteotomy | Manuela Eugster, Department Biomedical Engineering, Allschwil, University of Basel, Switzerland |
| ASTRAS – a Novel High Accuracy Angle Sensor for Medical Applications | Lorenzo Iafolla, University of Basel, Allschwil, Switzerland & Massimiliano Filipozzi, University of Basel, Allschwil, Switzerland |
| Wireless Optical Coherence Tomography | Arsham Hamidi, University of Basel, Allschwil, Switzerland & Ferda Canbaz, University of Basel, Allschwil, Switzerland |

17:00  Special Lecture: Poet Doctors

18:30  Transfer to Wildt’sches Haus

19:00 – 23:00  Gala Dinner at Wildt’sches Haus
Kleiner Hörsaal (ZLF)

08:30  Registration

09:00  Session 3: Digital Future of Medicine / Cyber Security

- **A People-Centered Approach to Maxillofacial Prosthetics**
  David Trainer, University of Miami Jackson Memorial Medical Center, USA

- **Faces & Feelings: Exploring the Uncanny Valley**
  Samuel J. Zeichner, Centre de Radiologie Maxillo-Facial Vevey, Switzerland

- **Gaming for Better Diagnostics - A Game Changer for Healthcare and the Use of Personal Data**
  Christian Vogler, Advancience, Allschwil, Switzerland

- **Who Owns and Controls the Data? - Legal Dimensions of Artificial Intelligence and Questions on Access, Control, Ownership and Legal Use of Data in Digitalized Medicine**
  Claudia Seitz, University of Basel, Faculty of Law, Switzerland

10:00  Coffee Break

10:30 – 11:30  Table Sessions

11.30 – 12:30  Session 4: Digital Future of Medicine/Dentistry

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12:30 – 13:30  Lunch

13:30 – 14:30  Session 5: Digital Future meets Humanity

| Spiritual Care for Informal Caregivers – a Relief Programme in Community Care |
| Alexander Bischoff, University of Geneva, Switzerland |
| Christoph Leiggener, Cantonal Hospital Aarau, Switzerland |

| Craniofacial Kinetic Science MAS |
| Hans-Florian Zeilhofer, University Hospital Basel, Switzerland |
| Master Students of Craniofacial Kinetic Science |

14:30 – 15:30  Table Sessions

15:30 – 16:30  Guided Tour Art Basel

**Meeting Point:**
Guided Tour Desk, Foyer VIP-Welcome Lounge Hall 5, Messeplatz Basel

18:00  Farewell Party

**Venue:**
University Hospital Basel, Garden of Holsteiner Hof, Hebelstrasse 32, Basel, Switzerland
Social Program

Memorial Service for Bernd Spiessl
Thursday, 13 June 2019, 18:30 – 19:15
Venue: Herbergsgasse 7, 4051 Basel

Get Together with Apéro Riche & Vernissage
Thursday, 13 June 2019, 19:30 – 22:00
Venue: Herbergsgasse 7, 4051 Basel

Gala Dinner
Friday, 14 June 2019, 19:00 – 23:00
Venue: Wildt'sches Haus

Guided Tour at ART Basel
Saturday, 15 June 2019, 15:30 – 16:30
Meeting Point: Guided Tour Desk, Foyer VIP-Welcome Lounge Hall 5, Messeplatz Basel

Farewell Party
Saturday, 15 June 2019, 19:00 – 23:00
Venue: University Hospital Basel, Garden of Holsteiner Hof, Hebelstrasse 32, 4056 Basel
Speakers

CHAIR

Prof. Dr. med. Dr. med. dent. Dr. h.c. Hans-Florian Zeilhofer
Clinic for Cranio-Maxillofacial Surgery, University Hospital Basel
Innovation Hub, University of Basel
Allschwil, Switzerland

CO-CHAIR

Prof. Dr. med. Dr. med. dent. Christoph Kunz
Clinic for Cranio-Maxillofacial Surgery, University Hospital Basel
Basel, Switzerland

Prof. Dr. med. dent. Carlalberta Verna
Universitäres Zentrum für Zahnmedizin Basel, UZB, University of Basel
Basel, Switzerland

SPEAKERS

Cyrill Bätscher
Advanced Osteotomy Tools
Basel, Switzerland

Dr. Alexander Bischoff
Adjunct Professor, Institute of Global Health
University of Geneva, Switzerland

Dr. med. Christoph Blecher
Cranioform AG
Berlin, Germany

Dr. Ferda Canbaz
Postdoc, Department of Biomedical Engineering, University of Basel
Allschwil, Switzerland

Prof. Dr. Philippe Cattin
Department Biomedical Engineering, University of Basel
Allschwil, Switzerland

Prof. Dr. med. Bernard Devauchelle
Clinic for Maxillofacial Surgery, University Hospital Amiens
Amiens, France

Manuela Eugster
Department Biomedical Engineering, Biromed Lab, University of Basel
Allschwil, Switzerland

Lorin Fasel
Department Biomedical Engineering, Biromed Lab, University of Basel
Allschwil, Switzerland

Massimiliano Filipozzi
Department of Biomedical Engineering, University of Basel
Allschwil, Switzerland

Jean Christophe Gostanian
CEO & Founder, Avatarion Technology AG
Zürich, Switzerland

Arsham Hamidi
PhD candidate, Department of Biomedical Engineering, University of Basel
Allschwil, Switzerland

Lorenzo Iafolla
PhD candidate Department of Biomedical Engineering, University of Basel
Allschwil, Switzerland

Prof. Dr. med. Dr. med. dent. Peter Kessler
Clinic for Cranio-Maxillofacial Surgery University Medical Center Maastricht
Maastricht, Netherlands

Prof. i.R. Dr. Cornelia Kober
University of Applied Sciences Hamburg
Hamburg, Germany
Speakers

**Prof. Till R. Kuhnle**  
Faculté des Lettres et des Sciences Humaines: Laboratoire Espaces Humains et Interactions Cultureless - E.H.I.C. Université de Limoges  
Limoges, France

**Prof. Dr. med. Dr. med. dent. Christoph Leiggener**  
Clinic for Cranio-Maxillofacial Surgery University Cantonal Hospital Aarau  
Aarau, Switzerland

**Prof. Frederic Fol Leymarie**  
University of London  
London, UK

**Daniel Mesmer**  
Department Biomedical Engineering, Smart Implants, University of Basel  
Allschwil, Switzerland

**Claudio Paul**  
Business Development and Technical Support, Avatarion Technology AG  
Zürich, Switzerland

**Prof. Dr. Georg Rauter**  
Department Biomedical Engineering, Biromed Lab, University of Basel  
Allschwil, Switzerland

**Dr. med. dent. Stefan Röhling**  
Cantonal Hospital Aarau, MVZ D-Lörrach  
Aarau, Switzerland, Lörrach, Germany

**Dr. med. Dr. med. dent. Miodrag Savic**  
Clinic for Cranio-Maxillofacial Surgery, University Hospital Basel  
Basel, Switzerland

**Dr. med. dent. Irena Seelig**  
Department Biomedical Engineering, Smart Implants, University of Basel  
Allschwil, Switzerland

**Prof. Dr. Claudia Seitz**  
Faculty of Law, University of Basel  
Basel, Switzerland

**Samarth Shetty**  
Narayana Health – Mazumdar Shaw Medical Centre  
Narayana Medical City, Bangalore, India

**PD Dr. med. dent. Stefan Stübinger**  
Department Biomedical Engineering, Smart Implants, University Basel  
Allschwil, Switzerland

**Ivan Sušić**  
Department Biomedical Engineering, Biromed Lab, University of Basel  
Allschwil, Switzerland

**Prof. h.c. Dr. med. Dr. med. dent. Florian Thieringer**  
Clinic for Cranio-Maxillofacial Surgery, University Hospital Basel  
Basel, Switzerland

**Luc Tissot**  
President of the Tissot Economic Foundation  
Le Locle, Switzerland

**David Trainer**  
Maxillofacial Prosthetist, University of Miami Jackson Memorial Medical Center  
Miami, USA

**Dr. Christian Vogler**  
Advancience  
Allschwil, Switzerland

**Prof. Dr. Stefan Weber**  
ARTORG Center for Biomedical Engineering  
University of Bern  
Bern, Switzerland
Speakers

Lindsey G. Zeichner
PhD candidate, Faculté des Lettres et des Sciences Humaines: Laboratoire Espaces humains et Interactions Cultuelles – E.H.I.C. Université de Limoges
Limoges, France

Prof. Dr. Samual J. Zeichner
Dipl. ABOMFR, Director, Centre de Radiologie Maxillo-Facial Vevey, Switzerland

Prof. Dr. med. Dr. med. dent. Dr. h.c. Hans-Florian Zeilhofer
Clinic for Cranio-Maxillofacial Surgery, University Hospital Basel Innovation Hub, University of Basel Allschwil, Switzerland

Timo Zillig
Department Biomedical Engineering, Smart Implants, University of Basel Allschwil, Switzerland
6 Credit Points per day

Swiss Society of Oral and Maxillo-Facial Surgery
SSOMFS

Scientific endorsement by
the European Association for Cranio-Maxillofacial Surgery
EAMFS
Catholic Community of Basel University

The catholic university community addresses students and lecturers with oecumenic and religious openness. People of our community are searching for spiritual comfort. We allow christianity to challenge, to inspire and to support us. As the catholic community of Basel University we provide space for meeting other souls.

We are guided by the respect for the diversity of people. We are searching for an open exchange with those who are interested in exciting and difficult aspects of life aside form studies, profession and work.

We are interested in questions about spirituality and faith, ethics, philosophy, society, politics, religious dialogues, church, culture, art and other themes.

We provide space for everyday life and celebrations, flirt and quarrel, laughing and crying, companionship and friendship.
General Information

**Congress President**
Hans-Florian Zeilhofer

**Congress Organisation**
Katalin Bohner

**Congress Secretariat**
Face and Identity - The Digital Future of Medicine

MDPI Sustainability Foundation
St. Alban-Anlage 66
4052 Basel, Switzerland

**Congress Venue**
University Hospital Basel
Zentrum für Lehre und Forschung (ZLF)
Hebelstrasse 20
4056 Basel, Switzerland
WE ARE HAPPY TO ANNOUNCE:
16th International Bernd-Spiessl Symposium
19 – 20 June 2019, Basel, Switzerland