

21st ISC

Stuttgart, Germany
Oct. 12 – 13, 2022



Invitation / Programme

International Sealing Conference

| Wednesday 12 th October 2022 | | | | | |
|-----------------------------------------|-----------------------------------|--------------------------------------------------------|----------------------------------------------------------|-----------------------------|-------------------------|
| 09:00 | | Exhibition | | Exhibition - Poster Session | Visit to IMA Laboratory |
| | | Opening 21 st ISC | | | |
| 10:00 | Session 1 | Plenary Talks I (Bauer) I 1 - I 2 | | | |
| | | Break Exhibition | | | |
| 11:00 | Session 2 | Alternative Energy (Schwarz) A 1 - A 3 | Mechanical Seals (Hübner-Hecker) B 1 - B 3 | | |
| | | Lunch Exhibition | | | |
| 12:00 | Session 3 | Rotary Shaft Seals I (Bock) A 4 - A 7 | Reciprocating Seals (Goerres) B 4 - B 7 | | |
| | | Break Exhibition | | | |
| 13:00 | Session 4 | Rotary Shaft Seals II (Kröger) A 8 - A 11 | Static Seals (Riedl) B 8 - B 10 | | |
| | | Exhibition | | | |
| 14:00 | | | | | |
| | | Conference Dinner | | | |
| 15:00 | | | | | |
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| 16:00 | | | | | |
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| 17:00 | | | | | |
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| 18:00 | | | | | |
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| 19:00 | | | | | |
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| 20:00 | | | | | |
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| Thursday 13 th October 2022 | | | | |
|----------------------------------------|------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------|
| 09:00 | Session 5 | Applications in Practice (Hunger) | Simulation I (Dakov) | Exhibition - Poster Session |
| 10:00 | | A 12 - A 15 | B 12 - B 15 | |
| 11:00 | Break Exhibition | | | |
| 12:00 | Session 6 | Automotive/ E-Mobility (Waidner) | Materials and Surfaces I (Bischoff) | |
| 13:00 | | A 16 - A 19 | B 16 - B 19 | |
| 14:00 | Lunch Exhibition | | | |
| 15:00 | Session 7 | Materials and Surfaces II (Brödner) | Simulation II (Thielen) | |
| 16:00 | | A 20 - A 22 | B 20 - B 22 | |
| 17:00 | Session 8 | Break Exhibition | | |
| 18:00 | | Plenary Talk II (Bauer) C 1 | | |
| 19:00 | Closing 21 st ISC | | | |
| 20:00 | Exhibition | | | |
| Visit to IMA Laboratory | | | | |

The detailed programme can be downloaded from the ISC website or ordered at the contact adress.

International Sealing Conference

21st ISC

International Sealing Conference

Stuttgart, Germany

October 12 – 13, 2022

Contact / Organisation

FVA GmbH
21st ISC
Dr. Maximilian Hartmann
Lyoner Str. 18
60528 Frankfurt am Main
Germany

Institute of Machine Components (IMA) at the University
of Stuttgart, Germany
Head of Sealing Technology / Frank Bauer

Dear Ladies and Gentlemen,

We would like to invite you to the **21st ISC on October 12 and 13, 2022** in Stuttgart. It is now the tenth time that the International Sealing Conference will take place at the University of Stuttgart, after it could not be held in 2020 due to the pandemic. This conference is again jointly organized by the VDMA and the Institute of Machine Components (IMA) at the University of Stuttgart.

Under the motto **“Sealing Technology – Old School and Cutting Edge”**, lectures will be held that convey the latest findings from research and development, as well as practical experience.

The lectures will be held in English, only, with simultaneous translation into German provided.

We look forward to seeing you again in Stuttgart in the fall of 2022!



Ingrid Hunger
Chairwoman of the Fluid Power
Sealing Group of VDMA



Frank Bauer
Head of Sealing Technology,
IMA, University of Stuttgart

21st ISC

International Sealing Conference

9:30 Welcoming Speech and Opening of the 21st ISC

Frank Bauer

Head of Sealing Technology of the Institute of Machine Components (IMA) at the University of Stuttgart

Ingrid Hunger

Chairwoman of the Fluid Power Sealing Group of VDMA, the German Engineering Federation

Session 1 I

09:45 – 10:30

Plenary Talks I

Lectures **I 1 – I 2**

Lecture room **V 47.02**

Chairman **Frank Bauer,**
University of Stuttgart, Institute of Machine
Components (IMA)

I 1 **Scaling of radial seals**
Matthias Kröger,
Technische Universität Freiberg, Freiberg, Germany

I 2 **Towards additively manufactured dynamic rod seals**
Kathrin Ottink, **Matthias Graf, Thomas Ebel,**
Tobias Lankenau,
Hochschule Emden/Leer, Emden, Germany

**Break
Exhibition**

10:30 – 11:00

Session 2 A

11:00 – 12:15

Alternative Energy

| | |
|--------------|--------------------------------------------------------------|
| Lectures | A 1 – A 3 |
| Lecture room | V 47.02 |
| Chairman | Thomas Schwarz, SKF Sealing Solutions Austria GmbH |

- A 1**

Sealing Solutions for Hydrogen Applications
Anna Berger, Anreas Mierzwa,
Frenzelit GmbH, Bad Berneck, Germany
- A 2**

Static seals for hydrogen at high pressure
Lucian Pasieka, Agim Gashi,
Eugen Seitz AG, Wetzikon, Switzerland
- A 3**

Tribological properties of PTFE sealing materials with regard to bio-hybrid fuels
Marius Hofmeister, Matthias Grunewald,
Katharina Schmitz,
Instiute for Fluid Power Drives and Systems, Aachen, Germany

**Lunch
Exhibition**

12:15 – 13:15

Session 2 B

11:00 – 12:15

Mechanical Seals

Lectures **B 1 – B 3**

Lecture room **V 47.03**

Chairman **Andreas Hübner-Hecker,**
HECKER WERKE GmbH

B 1 **Influence of the installation environment on the operating behavior of mechanical seals**
Peter Waidner,
seal-ing – the sealing doctor, Bamberg, Germany

B 2 **A Numerical Investigation on the Effects of Operating Parameters on the Wear Behaviour of Metal Face Seals**
Dennis Keller, Georg Jacobs, Stephan Neumann,
RWTH Aachen University, Aachen, Germany

B 3 **Additive Manufacturing of Tungsten Carbide Surfaces with Extreme Wear Resistivity**
Florian Koehn, M. Sedlmajer, A. Guetlein, J. Albrecht,
M. Merkel,
Aalen University, Aalen, Germany

**Lunch
Exhibition**

12:15 – 13:15

Session 3 A

13:15 – 15:00

Rotary Shaft Seals I

| | |
|--------------|-----------------------------------------------|
| Lectures | A 4 – A 7 |
| Lecture room | V 47.02 |
| Chairman | Eberhard Bock, Freudenberg FST GmbH |

A 4 **On the prediction of the lubrication condition of grease sealing rotary shaft seals**
Susanne Hahn, Simon Feldmeth, Frank Bauer,
University of Stuttgart, Institute of Machine
Components (IMA), Stuttgart, Germany

A 5 **Characterization of radial shaft seal performance in contaminated environments**
Tim Schollmayer, Stefan Thielen, Bernd Sauer,
Oliver Koch,
Technische Universität Kaiserslautern, Institute
of Machine Elements, Gears, and Transmissions,
Kaiserslautern, Germany

A 6 **Influence of dynamic eccentricity on the pumping rate of rotary shaft seals at sub-zero temperatures**
Sumbat Bekgulyan, Simon Feldmeth, Frank Bauer,
University of Stuttgart, Institute of Machine
Components (IMA), Stuttgart, Germany

A 7 **Influence of Lubricants on the Thermal Behaviour of Rotary Shaft Seals**
Simon Feldmeth, Christoph Olbrich, Frank Bauer,
University of Stuttgart, Institute of Machine
Components (IMA), Stuttgart, Germany

**Break
Exhibition**

15:00 – 15:30

Session 3 B

13:15 – 15:00

Reciprocating Seals

Lectures **B 4 – B 7**
Lecture room **V 47.03**
Chairman **Martin Goerres,**
Freudenberg FST GmbH

B 4 **Condition monitoring of reciprocating seals**
Boris Traber, Olaf Nahrwold,
Freudenberg Sealing Technologies, Weinheim,
Germany

B 5 **Observations on Particle Wiping Behavior
of Hydraulic Wipers**
Gonzalo A. Barillas, Andreas Gropp, Mert von Daven,
Freudenberg Sealing Technologies GmbH,
Schwalmstadt, Germany

B 6 **DEVELOPMENT OF A NOVEL WIPER SEAL TEST RIG
AND VALIDATION OF WIPER SEAL PERFORMANCES**
Seckin Semiz, Cem Tanyeri, Ozan Devlen,
Kastas Sealing Technologies, Izmir, Turkey

B 7 **An empirical study on the breakaway friction
and squeeze film effects of a polyurethane
U-cup rod seal**
Oliver Feuchtmüller, Lothar Hörl, Frank Bauer,
University of Stuttgart, Institute of Machine
Components (IMA), Stuttgart, Germany

**Break
Exhibition**

15:00 – 15:30

Session 4 A

15:30 – 17:15

Rotary Shaft Seals II

Lectures **A 8 – A 11**

Lecture room **V 47.02**

Chairman **Matthias Kröger**,
TU Bergakademie Freiberg, Institute for
Machine Elements, Engineering Design
and Manufacturing

- A 8** **Correlation between Wetting Properties and the Wear of Rotary Shaft Sealing Systems**
Philipp Fricker, Matthias Baumann, Frank Bauer,
University of Stuttgart, Institute of Machine
Components (IMA), Stuttgart, Germany
- A 9** **Cost-efficient evaluation of elastomer-lubricant incompatibility under tribological loads equivalent to radial shaft seals**
Laura Stubbe, Sarah Staub, Konrad Steiner,
Stefan Thielen, Oliver Koch, Bernd Sauer,
Technische Universität Kaiserslautern, Institute
of Machine Elements, Gears, and Transmissions,
Kaiserslautern, Germany
- A 10** **Formation of Macro Lead using plunge grinding – a kinematic approach**
Georg Haffner, Matthias Baumann, Frank Bauer,
University of Stuttgart, Institute of Machine
Components (IMA), Stuttgart, Germany
- A 11** **Radial shaft seals failures investigation**
Abdelhak Azzi, Samuel Maquinghen,
Poclain Hydraulics, Verberie, France

Exhibition **17:15 – 17:45**
Conference Dinner **18:30**

Session 4 B

15:30 – 16:50

Static Seals

Lectures **B 8 – B 10**

Lecture room **V 47.03**

Chairman **Alexander Riedl**,
Fachhochschule Münster,
Fachbereich Physikalische Technik

B 8 **Evaluation of gasket performance at cryogenic Temperature**
Florian Werner, Oliver Zach,
Teadit International Produktions GmbH, Kirchbichl,
Austria

B 9 **Gasket sealability test results in accordance to new test setup concerning Air Quality Control control act (“TA-Luft”)**
Ralf Kulesa,
Garlock GmbH, Neuss, Germany

B 10 **The Smart Flange Joint – Bolt Force Measurement with Foil Sensors**
Philipp Lambertz, Alexander Riedl,
FH Muenster – Center of Sealing Technologies,
Steinfurt, Germany

Exhibition
Conference Dinner

16:50 – 17:45
18:30

Session 5 A

09:00 – 10:45

Applications in Practice

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|--------------|------------------------------------------|
| Lectures | A 12 – A 15 |
| Lecture room | V 47.02 |
| Chairman | Ingrid Hunger, Hunger DFE GmbH |

- A 12**

Digital twin for rubber seal manufacturing
Roy Ovink, Bas van der Vorst, Mickael Sansalone,
SKF B.V., Houten, Netherlands
- A 13**

Sealing solutions for industrial gear units
Franz Schmeink,
Flender GmbH, Voerde, Germany
- A 14**

Material comparison for high demands for the development of safety elements for Li-ion batteries
Volker Buchmann, André Konzelmann,
Konzelmann GmbH, Loechgau, Germany
- A 15**

Investigation of hydraulic fluid condition on seal performance
Silvio Schreymayer, Thomas Schwarz,
Michael Fasching, Michael Liebminger,
Aldara Naveira Suarez, Tomas Östberg, Erik Råwall,
SKF Sealing Solutions Austria GmbH, Judenburg,
Austria

**Break
Exhibition**

10:45 – 11:15

Session 5 B

09:00 – 10:45

Simulation I

Lectures **B 12 – B 15**

Lecture room **V 47.03**

Chairman **Nino Dakov,**
Trelleborg Sealing Solutions

- B 12** **Experimental determination and EHL simulation of transient friction of pneumatic seals in spool valves**
Niklas Bauer, Sumbat Bekgulyan, Simon Feldmeth, Frank Bauer, Katharina Schmitz, RWTH Aachen University, Aachen, Germany
- B 13** **Component-based modular system modeling of a spool valve**
Dominik Lorenz, Lisa-Marie Schänzel, Marc-Andre Hodapp, Festo SE & Co. KG, Esslingen-Berkheim, Germany
- B 14** **Design for contact lubrication of large seals**
Dirk Möhring, Tim Leichner, Frank Strübing, Gonzalo Barillas, Freudenberg Sealing Technologies GmbH & Co. KG, Weinheim, Germany
- B 15** **Modeling the Compression Set of Elastomers to Predict the Lifetime of Sealing Systems by Finite Element Analysis**
Christoph Wehmann, Ambarish Kulkarni, Feyzan Durn, Murat Gulcur, Trelleborg Sealing Solutions Germany GmbH, Stuttgart, Germany

**Break
Exhibition**

10:45 – 11:15

Session 6 A

11:15 – 13:00

Automotive/E-Mobility

Lectures **A 16 – A 19**

Lecture room **V 47.02**

Chairman **Peter Waidner**,
seal-ing – der dichtungsdoktor –
the sealing doctor

A 16 **Dynamic dirt deflectors for friction reduced shaft seals**
Kenya Yoshioka, Tim Leichner, Max Freiburger,
Freudenberg Sealing Technologies GmbH & Co. KG,
Weinheim, Germany

A 17 **Axial seal for high-rpm application and poor lubrication**
Christoph Schüle, Martin Franz, **Christoph Wehmann**,
Sergio Amorim,
Trelleborg Sealing Solutions Germany GmbH,
Stuttgart, Germany

A 18 **Responding to sealing challenges in Electric Vehicles (EV)**
Bas van der Vorst, Jeroen Lenten, Mickael Sansalone,
SKF, Houten, Netherlands

A 19 **Validation cycles for electrical systems from a Seal's perspective – Discussion of LV124 compared to established seal test sequences**
Jan Gölz,
Magna PT B.V. & Co. KG, Untergruppenbach, Germany

**Lunch
Exhibition**

13:00 – 14:00

Session 6 B

11:15 – 13:00

Materials and Surfaces I

Lectures **B 16 – B 19**

Lecture room **V 47.03**

Chairman **Andreas Bischoff,**
ARLANXEO Deutschland GmbH

B 16 **Regenerative Thermoplastic Polyurethane for Hydraulic Rod Seals – Material Development (Part 1)**
Joachim Möschel,
Fietz Automotive GmbH, Burscheid-Hilgen, Germany

B 17 **Regenerative Thermoplastic Polyurethane for Hydraulic Rod Seals – Time-Accelerated Testing (Part 2)**
Sumbat Bekgulyan, Simon Feldmeth,
Oliver Feuchtmüller, Lothar Hörl, Frank Bauer,
University of Stuttgart, University of Stuttgart,
Institute of Machine Components (IMA),
Stuttgart, Germany

B 18 **Interactions between elastomer fillers, strain, surface properties and friction**
Fabian Kaiser, Theresa Miller, Matthias Adler,
Freudenberg Technology Innovation SE & Co. KG,
Weinheim, Germany

B 19 **Prediction of the functional limits of seals at low temperatures**
Bernhard Richter,
O-Ring-Prüflabor Richter GmbH, Großbottwar,
Germany

Lunch
Exhibition

13:00 – 14:00

Session 7 A

14:00 – 15:15

Materials and Surfaces II

Lectures **A 20 – A 22**

Lecture room **V 47.02**

Chairman **Stefan Brödner,**
Bosch Rexroth AG

- A 20**

Formation of Micro Lead in Cylindrical Plunge Grinding
Matthias Baumann, Jannik Röttger, Frank Bauer,
Thomas Bergs,
University of Stuttgart, Institute of Machine Components (IMA), Stuttgart, Germany
- A 21**

3D Printing Flexible Materials: From Prototyping to Industrial Manufacturing
Barthel Engendahl, Cora Leibig,
Chromatic 3D Materials GmbH, Selfkant, Germany
- A 22**

Thermoset Shaft Seals – A new generation of Radial Shaft Seals
Cornelius Fehrenbacher,
KACO GmbH + Co. KG, Kirchardt, Germany

**Break
Exhibition**

15:15 – 15:45

Session 7 B

14:00 – 15:15

Simulation II

Lectures **B 20 – B 22**

Lecture room **V 47.03**

Chairman **Stefan Thielen**,
TU Kaiserslautern, Institute of Machine
Elements, Gears, and Transmissions (MEGT)

B 20 **SIMULATION OF COMPOSITE GUIDING ELEMENTS WITH ADVANCED ANALYSIS**

Seckin Semiz, Cem Tanyeri, Yoncagul Celik Erez,
Ozan Devlen,
Kastas Sealing Technologies, Izmir, Turkey

B 21 **Seal virtual optimization for enhanced sustainability**

Sylvain Nadiama, Mickael Sansalone,
SKF B.V., HOUTEN, Netherlands

B 22 **Benefits and Applications of EHL Analysis in Sealing Technology**

Nino Dakov,
Trelleborg Sealing Solutions Germany GmbH,
Stuttgart, Germany

**Break
Exhibition**

15:15 – 15:45

Session 8 C

15:45 – 16:30

Plenary Talk II

| | |
|--------------|------------------------------------------------------------------------------------------|
| Lectures | C 1 |
| Lecture room | V 47.02 |
| Chairman | Frank Bauer, University of Stuttgart, Institute of Machine Components (IMA) |

C 1

**Tribology of dynamic seals on a nanoscale –
where does this lead?**
Peter Waidner,
seal-ing – der dichtungsdoktor – the sealing doctor,
Bamberg, Germany

Closing

16:30 – 17:00

Frank Bauer,
Head of Sealing Technology of the Institute of Machine
Components (IMA) at the University of Stuttgart

**Closing
End of Exhibition**

16:30 – 17:00

Programme Committee

| | |
|-------------------------------|---------------------------------------------------------------------------------------------------|
| Dr. Manfred Achenbach | Ingenieur- und Sachverständigenbüro Achenbach |
| PD Dr. Frank Bauer | Universität Stuttgart, Institut für Maschinenelemente (IMA) |
| Dr. Andreas Bischoff | ARLANXEO Deutschland GmbH |
| Prof. Dr. Eberhard Bock | Freudenberg FST GmbH |
| Stefan Brödner | Bosch Rexroth AG |
| Thomas Bürkle | FESTO SE & Co. KG |
| Ozan Devlen | Kastas Sealing Technologies |
| Martin Goerres | Freudenberg FST GmbH |
| Rolf Hahn | Sealing Technology Surveyor and Consultant |
| Susanne Hahn | Universität Stuttgart, Institut für Maschinenelemente (IMA) |
| Dr. Maximilian Hartmann | Fachverband Fluidtechnik im VDMA e.V. |
| Andreas Hübner-Hecker | HECKER WERKE GmbH |
| Ingrid Hunger | Hunger DFE GmbH |
| Holger Jordan | Trelleborg Sealing Solutions Germany GmbH |
| Prof. Dr. Alexander Riedl | Fachhochschule Münster, FB Physikalische Technik |
| Dr. Heinz Christian Rost | Parker Hannifin GmbH, Engineered Materials Group Europe |
| Prof. Dr. Katharina Schmitz | RWTH Aachen, Institut für fluidtechnische Antriebe und Systeme (ifas) |
| Dr. Thomas Schwarz | SKF Sealing Solutions Austria GmbH |
| Jun. Prof. Dr. Stefan Thielen | Technische Universität Kaiserslautern, Lehrstuhl für Maschinenelemente und Getriebetechnik (MEGT) |
| Klaus G. Wagner | Herbert Hänchen GmbH & Co. KG |
| Prof. em. Dr. Peter Waidner | seal-ing – der dichtungsdoktor – the sealing doctor |

Conference Venue

University of Stuttgart, Stuttgart-Vaihingen, ETI-Building
Pfaffenwaldring 47
70569 Stuttgart
Germany

Exhibition and Poster Session

There will be a commercial exhibition and poster session in the lobby of the Conference Centre throughout the conference. Information on the participation at the commercial exhibition and the registration form can be ordered at the contact address. This information is also available on the website as download under Exhibition. The target date for registration is July 15, 2022.

The list of 'Participants and Exhibitors' will be available at the conference.

Evening Event

A festive evening event will take place on October 12, 2022 in the Staatsgalerie Stuttgart. It will start with a reception in the foyer of the Neue Staatsgalerie. Afterwards, the paintings and sculptures of various epochs and schools from the 14th to the 21st century can be discovered. There will also be the opportunity to take part in guided tours. The tours and the museum visit will guide you to the premises of the Alte Staatsgalerie, where a festive dinner will be served in the Pillar and Apsidal Hall.

Main topics / Research projects of the IMA

Hydraulic Seals:

- Hydraulic rods for low friction and low leakage

Non-contact Seals:

- Non-contact sealing of high speed shafts
- Non-contact shaft sealing with grease packing

Shaft Seals:

- Influence of wetting by the lubricant on the function of dynamic seals
- Reliability of rotary shaft lip-type seals
- Direction of rotation independent PTFE-packings with spiral groove
- Analysis and modelling of wear on PTFE sealing elements
- Reliable sealing on innovative shaft materials and innovative shaft coatings
- Structural analysis of sealing counter-faces
- 3D surface topography
- Reliable sealing of grease and liquid grease by means of rotary shaft seals

Static Seals:

- Limitation of use of modern liquid sealants at housing interfaces
- Sealing of unequal housing interfaces

The following listed test benches and test facilities are available at the institute for investigations:

- 19 test benches for rotary shaft seals
- Test benches for hydraulic rod seals
- Test bench for scrapers / wipers
- Tribology test bench, ellipsometer
- Test benches for static flat seals
- Test bench for profile seals X-, R- and O-rings
- Tensile testing machine, Radial force measuring equipment
- 3D-Coordinate measuring machine
- 3D-Measuring instruments for surface topography (contact and contactless, e.g. white light interferometer)
- Surface energy and contact angle measuring instrument
- Optical analysis of surfaces, 3D-Microscopic optics
- FE-Working places
- Scanning electron microscope

Registration

Each participant of the ISC needs to register and purchase a ticket. ISC-Tickets for one or more participants can be purchased on the website **www.sealing-conference.com**

Attendance Fees

The attendance fee includes conference literature with a USB stick, simultaneous translation of the lectures into German, admission to the exhibition and the IMA laboratory, the conference banquet, as well as the lunches and refreshments during the breaks.

The following fees will be charged:

| | |
|-------------------------------------------|-----------------------------|
| Attendance fee: | € 1090,00 + 19 % VAT |
| Attendance fee (VDMA member companies): | € 890,00 + 19 % VAT |
| Speaker of the lectures and Chairpersons: | € 290,00 + 19 % VAT |
| PhD-Students: | € 290,00 + 19 % VAT |
| Additional Guests at the banquet: | € 105,00 + 19 % VAT |

For registration **later than 9th September 2022** an extra charge of 10 % will be added.

The accounting is carried out by the FVA GmbH, a VDMA subsidiary company.

Cancellation

Cancellation must be made in writing. If a cancellation is received by 9th of September 2022 latest, 10 % of the attendance fee will be charged. For cancellations after the 9th of September 2022, 50 % of the attendance fee will be charged.

Conference Documentation

The admission tickets to the conference, the conference literature and the list of participants will be available at the conference office on **12th and 13th of October 2022**.

Translation

All lectures will be translated simultaneously into German. Headphones and wireless receivers are available from the conference office and have to be returned at the end of the conference.

Please note: Missing headphones have to be charged with 50.00 €, receivers with 210.00 € by the organizer.

Lunch

A snack will be provided at the conference centre at both days. The costs are included in the attendance fee.

Hotel Reservation

Please order your hotel as soon as possible because there are some international fairs and exhibitions in Stuttgart at the same time. It is recommended to make the reservation at the “Stuttgart-Marketing GmbH” as follows:

1. Online booking:

<http://www.stuttgart-tourist.de/hotel-stuttgart>

2. Reservation by fax or email:

Please send your address, the dates of your journey and the name of the hotel you want to book by fax to

+49 711 2228-214 or by email to hotels@stuttgart-tourist.de.

3. Reservation by phone:

You can book your hotel by phone at the “Stuttgart-Marketing GmbH” on Mon to Fri, 8:30 am to 6:00 pm at +49 711 2228-100.

Travel Information

... by car: On A8 or A81 to the intersection Stuttgart, follow the A831 in direction Stuttgart-Zentrum, after the “Johannesgraben” tunnel take the exit “Universität”.

On-site parking will be signposted.

... by train: From Stuttgart Central Station by lines S1, S2 or S3 of the S-Bahn in direction Airport, Filderstadt, Herrenberg, Böblingen or Vaihingen. Getting out at the station “Universität”.

... by plane: From the airport building by lines S2 or S3 of the S-Bahn in direction Schorndorf or Backnang. Getting out at the station “Universität”.

Conference Organization

Susanne Hahn

Institute of Machine Components (IMA)
of the University of Stuttgart

Phone +49 711 685-66176

E-Mail susanne.hahn@ima.uni-stuttgart.de

Important Contact Information

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Phone +49 711 685-66662

E-Mail frank.bauer@ima.uni-stuttgart.de

Internet www.ima.uni-stuttgart.de

Conference Office

(only on 12/13 October 2022)

Universität Stuttgart, Stuttgart-Vaihingen,

Pfaffenwaldring 47, Germany

Phone +49 711 685-66561

Opening hours:

8:00 a.m. to 6:00 p.m.

Stuttgart-Marketing GmbH

Hotel Reservation

Rotebühlplatz 25, 70178 Stuttgart

Phone +49 711 2228-0

E-Mail hotels@stuttgart-tourist.de

Internet www.stuttgart-tourist.de

VDMA

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Contact / Organisation

FVA GmbH
21st ISC

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www.sealing-conference.com