

Quick-Guide



21st CIRP CONFERENCE
ON ELECTRO PHYSICAL AND CHEMICAL MACHINING
14th – 16th June 2022
Zurich, Switzerland
www.isemxxi.ethz.ch

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IWF

Institut für Werkzeugmaschinen und Fertigung
Institute of Machine Tools and Manufacturing

ETH zürich

inspire



ISEM XXI - GRÜEZI SWITZERLAND!



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Switzerland is a small multicultural country with great variety in the heart of Europe. Inspiration doesn't keep office hours, it can strike any time and anywhere especially in such a great city like Zurich. It is well known as a first class country for hosting conferences and fairs. This stimulating environment encourages new ideas and is therefore perfect for the CIRP ISEM 2022.



Zurich, City of Desires



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Zurich is top for leisure and pleasure. Gentle hills, peaceful woods, the unpolluted lakes and rivers, picturesque villages - and all just a stone's throw from the Alps.

Enjoy the pretty old town, the trendy new Zurich-West district and the glorious lake. With opera, ballet, theater premieres, shows, musicals, art exhibitions in over 50 museums and 100 galleries, time never drags in Zurich. The famous Bahnhofstrasse and the Limmatquai are a shopper's paradise.



Zurich, City of Research and Education



In 1855, the Swiss Federal Institute of Technology (ETH) was founded mainly as a school for engineers, but also as a compensation to Zurich for not being the capital city of Switzerland. Between 1861 and 1864, the impressive main building was designed by Gottfried Semper. In the history of ETH, many well known scientists and 21 Nobel price winners are associated with this school. Today, about 21'400 students are matriculated in all technical and scientific disciplines.



Swiss machine tool industry

- Erosion, milling, turning, drilling, grinding, laser,...
- 1st industrially available EDM machine of the world
- „Swiss-type lathe“: decolletage machine, developed especially for the watch manufacturing industry
- Round transfer machines: 95% of all ball pen tips worldwide are made on Swiss machines
- 25% of world wide machine
- Tool manufacturing originates from the region of the Alps





IWF and Inspire AG Key Research Area

1.) Grinding, honing, lapping:

Chip removal with geometrically undefined cutting edges incl. process simulation methods, dressing technology and associated hybrid processes

2.) Optimization of machine tools:

Simulation as mechatronic systems incl. control technology and path planning, metrological analysis and compensation methods

3.) Additive manufacturing methods:

Processes with and without powder beds, incl. associated control and process simulation, quality assurance, incl. reverse engineering

4.) Laser material processing:

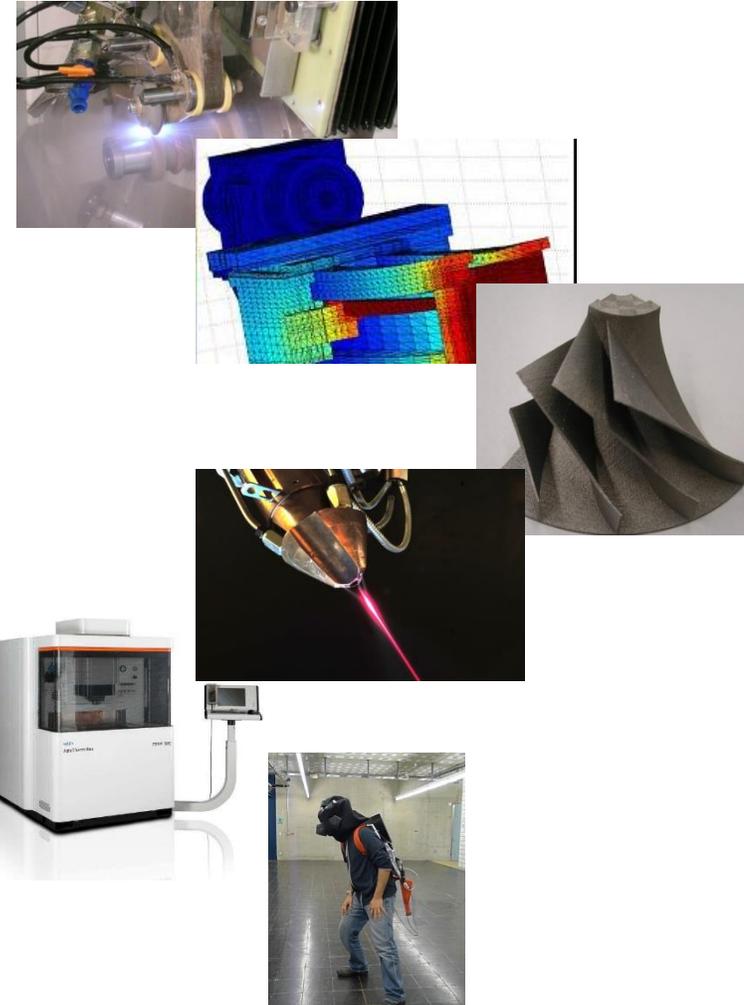
Ultrashort pulse technology, material removal, additive and joining processes, design of laser machines, processing of brittle hard materials

5.) Electric Discharge Machining

Modelling, process understanding, wear reduction, increase efficiency

6.) Factory planning and virtual reality:

Virtual and augmented reality of the digital factory and the digital product, systems for factory planning, network based collaborative work and development processes





Conference Place – ETH Zürich Main Building



The conference place will be at the ETH Zürich and is located in the Zürich city center.



Gala Dinner

The Lake Side lies in one of the most beautiful spots on the Zürichhorn, in the lively Seefeld quarter. Our guests can relax and indulge themselves on the large terrace directly on Lake Zurich and at the gala dinner. The restaurant focuses on fish dishes, shellfish, and excellent Swiss classics. The large terrace or the lounge on the upper floor invite our conference attendance to linger, chat and enjoy themselves.

- When: 15.06.2022, Evening
- Telephone: +41 44 385 86 25
- E-Mail: bankett@lake-side.ch
- Homepage: lake-side.ch
- Location: Bellerivestrasse 170, 8008 Zürich
- Connection:
 - Public Transfer: Tram 2 or 4 stop Fröhlichgasse, Bus 912 or 916 stop Chinagarten
 - Parking: Large public parking in front of the restaurant Lake Side





Networking Event

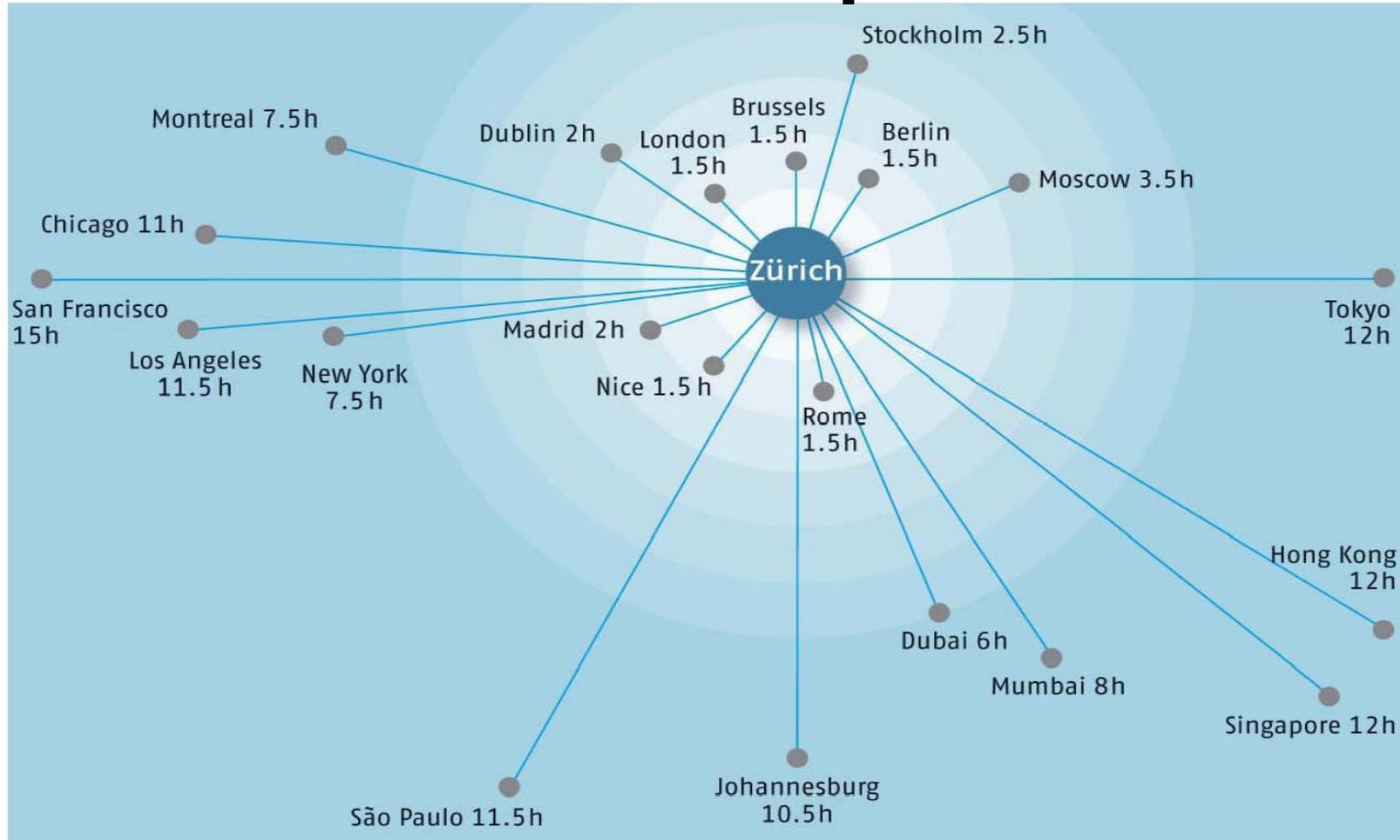
The “Haus zum Rüden” [house of the hound] was built in 1348. An association of noblemen built a tavern in which the Council occasionally met with approximately two hundred members between 1348 and 1400. The impressive feature of this tavern is the magnificent, eleven metre-wide curved wooden ceiling with the carved timber heads, which is today the “Gothic Room” Restaurant. The «Haus zum Rüden» is situated in the heart of the old town close to Bahnhofstrasse and Paradeplatz and a beautiful view on the Limat river.

- When: 14.06.2022, Evening
- Telephone: +41 44 261 9566
- E-Mail: info@hauszumrueden.ch
- Homepage: haus-zum-rueden.ch
- Location: Limmatquai 42, 8001 Zürich
- Connection:
 - Public Transfer: Tram 4 or 15, to Rathaus or Helmhaus.
 - Parking: Parking garage in the close proximity: Hohe Promenade and Urania





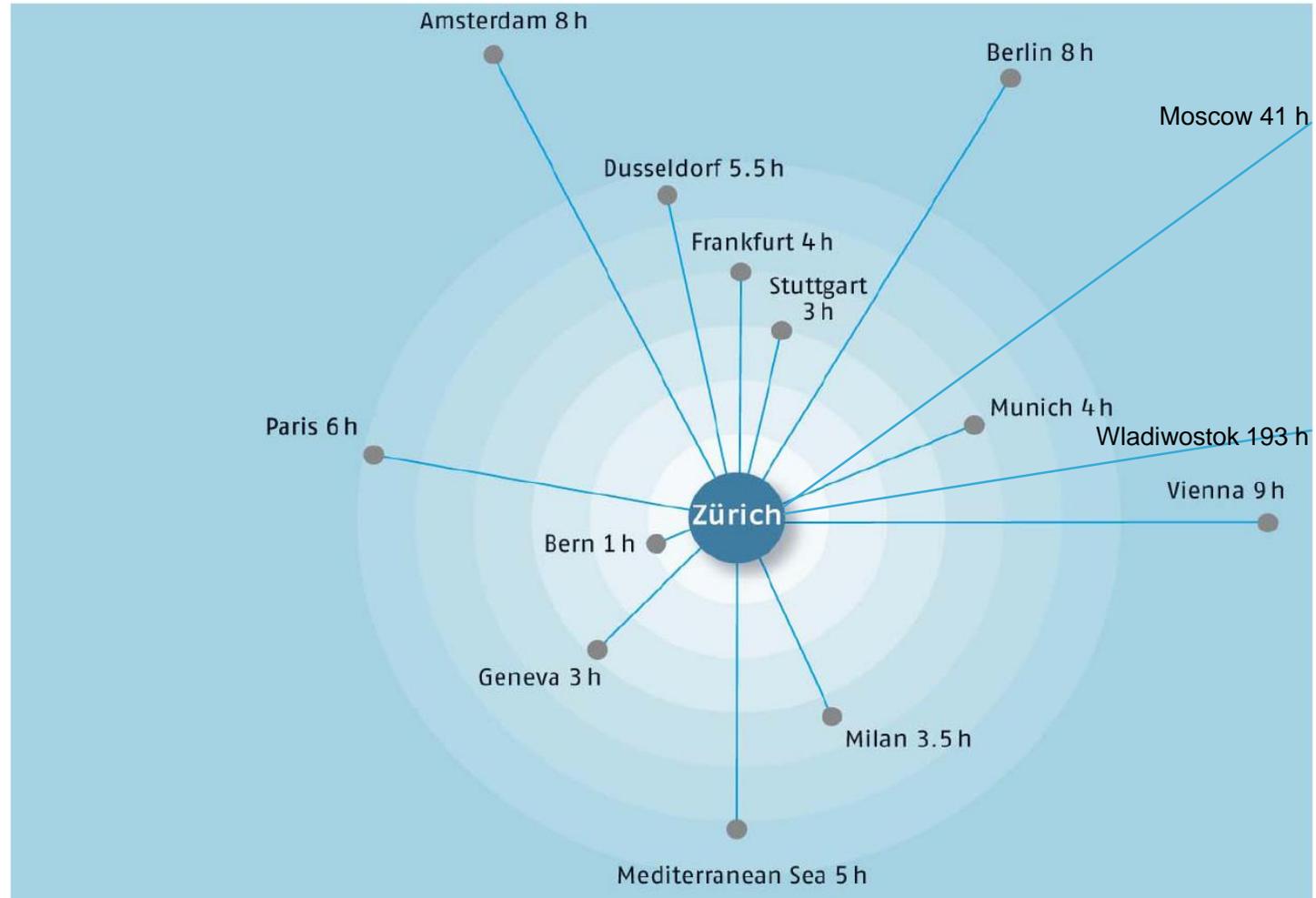
Good Connections: Airplanes



20 min from the airport to the conference place with train



Good Connections: Railway



10 min from the main station to the conference place

See You at ISEM XXI in Zurich



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