

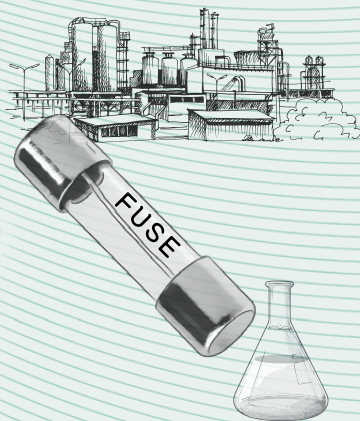
26-29 June 2024 in Esslingen, Germany



THE Ertl Center



Universität Stuttgart



Fritz-Haber-Institut der Max-Planck-Gesellschaft Berlin, Germany  
"for his studies of chemical processes on solid surfaces"



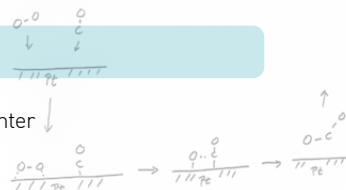
## Introduction

At the beginning of the 21<sup>st</sup> century our world is facing serious problems with regards to environment, climate, energy conversion, raw materials, water and food. All these global problems are seeking scientific solutions, especially from physical chemistry and electrochemistry, and in this connection analysis and dynamics are of tremendous importance. It is expected that the 8<sup>th</sup> Ertl symposium will provide a good opportunity in these attempts, and we wish great success to all the people involved in this enterprise.

## Honorary Chair

Gerhard Ertl

FHI der MPG & GIST Ertl Center



## Organizing Committee

Sungyool Bong  
Andreas Friedrich  
Jaeyoung Lee  
Kiyoung Lee  
Tobias Morawietz  
Jin-Soo Park

Kongju National University  
DLR  
GIST Ertl Center & ifRC-CHESS  
Inha University  
German Aerospace Center(DLR)  
Sangmyung University

**Co-Chair**

**Co-Chair**

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Axel Knop-Gericke  
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Fritz Haber Institute of the Max Planck Society  
Hebrew University of Jerusalem  
University of Strasbourg  
Technical University of Berlin  
Institute for Advanced Engineering

## Symposium Secretariat

HyungKuk Ju  
Email ertl@gist.ac.kr  
Fax +82 62 715 2434 (Korea)

Dankook University



## Key Topics

Material Synthesis: Catalyst, Membrane, Gas Diffusion Layer

Ink & Slurry Chemistry

Electrode Coating Technology

*in-situ* Surface and Interface Analysis

Full Cell Configuration & on-site Monitoring

AI Machine Learning

## Award Lectures (2024 Ertl Prize Winner)

Malte Behrens

Kiel University

Boon Siang Yeo

National University of Singapore

## Contributed Speakers

Jinsub Choi

Inha University

Zhifeng Ding

The University of Western Ontario

André Dourado

São Paulo State University

Robert Francke

Leibniz Institute for Catalysis

Timo Jacob

Ulm University

HyungKuk Ju

Dankook University

Hanno Käß

University of Esslingen

Sang Hoon Kim

Korea Institute of Science and Technology

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University of Stuttgart

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Technische Universität München

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Kiyoung Lee

Inha University

Fabio Lima

University of São Paulo

Olaf Magnussen

Kiel University

Karl Mayrhofer

Helmholtz Institute Erlangen-Nürnberg for Renewable Energy

Tobias Morawietz

German Aerospace Center (DLR)

Julia Müller-Hülstede

German Aerospace Center (DLR)

Joey D. Ocon

University of the Philippines Diliman

Mehtap Özaskan

Technische Universität Braunschweig

Jin-Soo Park

Sangmyung University

Ryan Richards

Colorado School of Mines

Elena R. Savinova

University of Strasbourg

Marc Secanell

University of Alberta

Ioannis Spanos

Max Plank Institute for Chemical Energy Conversion

Peter Strasser

Technical University of Berlin

Werner Strunz

Zahner

Yujin Tong

Universität Duisburg-Essen

Suriya Venkatesan

German Aerospace Center (DLR)

Shen Ye

Tohoku University

## Abstract Submission by 15 May 2024

150-300 words with only ONE image (figure or photo or table) in WORD file

E-mail submission: [ertl@gist.ac.kr](mailto:ertl@gist.ac.kr)

## Themed Issue

Submissions will be open for the Themed Issue (Journal Name tbc) and contributions can be uploaded via the RSC website. The deadline for submission of manuscripts is 31 October 2024. Guest Editor: Jaeyoung Lee (GIST)

## Conference Fee & On-line Registration

- Contributed Speakers: 250 EUR
- Regular participants: 400 EUR
- Student participants: 200 EUR
- The registration fee includes the Book of Abstracts (pdf file), Small Winery Tour, Lunch, Coffee Break, Poster Session F&B, Banquet and **Surprise Gift**.

1) Pre-registration Payment: Bank Transfer until 31 May 2024

Account owner: Universität Stuttgart

Bank: Baden-Württembergische Bank Stuttgart – BW-Bank

IBAN: DE51 6005 0101 7871 5216 87

SWIFT/BIC: SOLADEST600

Information to be provided/subject: Ertl-Symposium 2024 + name of participant

Fonds: 86032072

2) On-site Payment: in only CASH at the registration desk upon arrival.

3) Participants from Republic of Korea: Local payment on the web of KECS

## Conference Venue

Esslingen University of Applied Sciences provides academic training and education in the fields of technology, economics and the social sciences.

Excellent teaching, combined with high practical relevance, has a high priority at Esslingen. The University of Applied Sciences is also strong on applied research and, thanks to its doctoral programs, is able to offer graduates an extended scientific career.

It is no wonder, then, that Esslingen is consistently to be found among the best universities of applied sciences in Germany in numerous national ranking tables.

At Esslingen University, around 6,300 students are enrolled on 31 Bachelor's and 14 Master's degree programmes.

### Contact:

Christiane Rathmann, Esslingen University of Applied Sciences, Head of Communications, tel.: +49 711 397-3008, E-mail: [christiane.rathmann@hs-esslingen.de](mailto:christiane.rathmann@hs-esslingen.de)

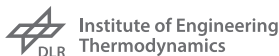


## Program

Opening Address: 5 min | Award Lecture: 45 min | Contributed Speech: 30 min | Closing Remarks: 5 min

Time	26 June (Wed)	Time	27 June (Thu)	Time	28 June (Fri)
08:00-08:50	<i>Registration</i>	08:00-09:00	<i>Registration</i>	08:00-09:00	<i>Registration</i>
08:50-09:00	<i>Opening Address</i>				
09:00-09:30	Contributed Speech	09:00-09:30	Contributed Speech	09:00-09:30	Contributed Speech
09:30-10:00	Contributed Speech	09:30-10:00	Contributed Speech	09:30-10:00	Contributed Speech
10:00-10:20	Contributed Speech	10:00-10:20	Contributed Speech	10:00-10:20	Contributed Speech
10:20-10:45	<i>Coffee Break</i>	10:20-10:45	<i>Coffee Break</i>	10:20-10:45	<i>Coffee Break</i>
10:45-11:30	Malte Behrens	10:45-11:30	Boon Siang Yeo	10:45-11:15	Contributed Speech
				11:15-11:35	Contributed Speech
11:30-12:00	Contributed Speech	11:30-12:00	Contributed Speech	11:35-12:05	Contributed Speech
12:00-12:30	Contributed Speech	12:00-12:30	Contributed Speech	12:05-12:35	Contributed Speech
12:30-14:00	<i>Lunch</i>	12:30-14:00	<i>Lunch</i>	12:35-14:00	Poster Prize Ceremony
					<i>Lunch</i>
14:00-14:30	Contributed Speech	14:00-14:30	Contributed Speech	14:10-20:30	Excursion II (City Tour/Optional)
14:30-15:00	Contributed Speech	14:30-15:00	Contributed Speech		
15:00-15:30	Contributed Speech	15:00-15:30	Contributed Speech		
15:30-16:00	Contributed Speech	15:30-16:00	Contributed Speech		
16:00-16:20	Contributed Speech	16:00-16:30	<i>Coffee Break</i>		
16:20-18:30	Group Photo & Small Winery Tour (Excursion I)	16:30-17:00	Contributed Speech		
		17:00-17:20	Contributed Speech		
		17:20-17:40	Contributed Speech		
		17:40-18:10	Contributed Speech		
		18:10-18:30	Contributed Speech		
18:30-20:30	<b>Banquet</b> Ertl Prize Ceremony		<b>Poster Session</b> w/ F&B		

## Supports and Sponsors



## Accommodation

### The Hotel

GINN Apartments

Hotel am Schelztor

The niu Timber

Hotel am Schillerpark

ECOINN

Hotel am Charlottenplatz

Martinstraße 23, 73728 Esslingen

Schelztorstraße 5 73728 Esslingen

Otto-Bayer-Straße 8-10, 73730 Esslingen

Neckarstraße 60, 73728 Esslingen

Kanalstraße 14-16, 73728 Esslingen

Plochingen Str.1, 73730 Esslingen

Standard room rate: per night & person incl. tax, service charge & breakfast.

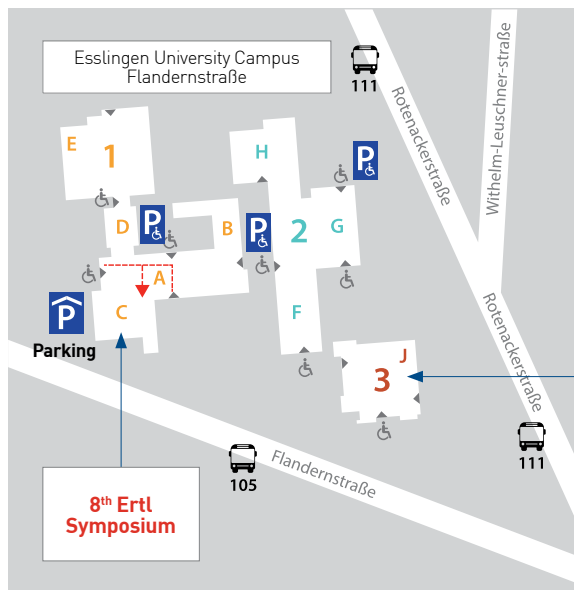
**Reservations should be made individually.** Other hotels (★★ to ★★★★★) near the venue are also available.

## About Esslingen <https://www.britannica.com/place/Esslingen>

Esslingen, in full Esslingen am Neckar, city, Baden-Württemberg Land (state), southwestern Germany. It lies along the Neckar River, just southeast of Stuttgart. Mentioned in 777 as Cella and in 866 as Hetsilinga, it was chartered about 1219. It was a free imperial city from 1360 to 1802, when it passed to Württemberg, the rulers of which had often threatened it. The centre of a fertile wine-producing and fruit-growing district, the town also has machine and electrical-engineering works tied to the automobile and high-technology sectors of the greater Stuttgart region. Precision instruments and optics are also produced.



# How to find us?



## Address:

Flandernstraße 101, 73732  
Esslingen am Neckar,  
Germany

## Parking:

~ 500 parking lots in garage  
(2€/ day; open 24h)

Cafeteria

▲ Entrance Building

▲ 8<sup>th</sup> Ertl Symposium

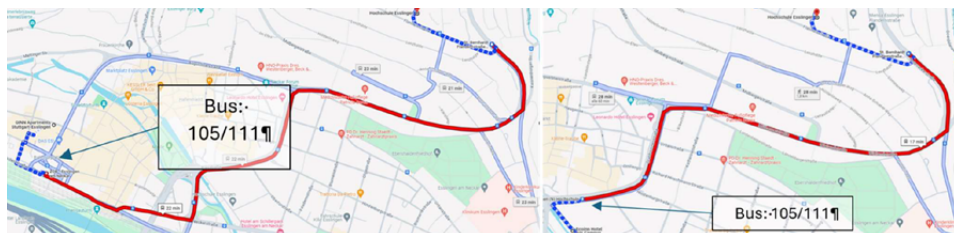
### By car:

- From Munich A8 until exit Esslingen, follow signs "Esslingen"
- From Frankfurt: A5,A67,A6,A81 (one highway) exit Stuttgart city centre follow B10 to exit Esslingen city centre

### By plane/train:

- Frankfurt: ICE to Stuttgart – S1, RE 5 or MEX 12/18 to Esslingen (1:30 h)
- Munich: S1 to Munich Hbf – Ulm or Stuttgart -RE/MEX to Esslingen (3 h)
- Stuttgart: Bus 122 to Esslingen ZOB (40 min) or S2 to Schwabstraße then S1

### From hotels by bus/walking (Shuttle service will be provided):







**26 June 2024**

## Banquet and start of winery tour: Weinsicht Teamwerk Esslingen

Adress: Lerchenbergstraße 16, 73733 Esslingen am Neckar

**16:30 - Symposium Bus at the Venue**

Walk for around 45 min from ECOInn hotel, 35 min from GINN hotel  
S1 from Esslingen main station to Mettingen can be used (16 min + 8 min walk)

