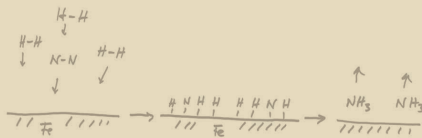


International



# 5<sup>th</sup> Ertl Symposium on Catalytic & Adsorption Reactions in chemical ProcessEs

25-28 November 2018 in Gwangju, South Korea

hosted by GIST Ertl Center & FHI der MPG

CARPE Diem

[ertl-symposium.org](http://ertl-symposium.org)



Prof. Dr. Gerhard Ertl  
Nobel Laureate 2007

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

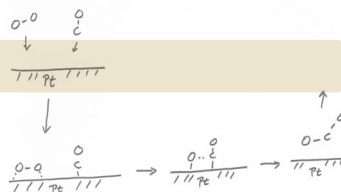


*"CARPE Diem"***Introduction**

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, in particular Catalytic and Adsorption Reactions in chemical ProcessEs. It is expected that the 5<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 and Scientific Committee**

Beatriz Roldan Cuenya	FHI der MPG	
Andreas Friedrich	DLR	
Renate Hiesgen	Esslingen University of Applied Sciences	
Sang Hoon Kim	KIST	Co-Chair
Young Dok Kim	SKKU	
Hye Jin Lee	Kyungpook National University	
Jaeyoung Lee	GIST Ertl Center & SESnEE	Chair
Robert Schlögl	FHI der MPG & MPI for Chemical Energy Conversion	Co-Chair
Sunghyun Uhm	Institute for Advanced Engineering	
Martin Wolf	FHI der MPG	

**Symposium Secretariat**

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## Key Topics

- How to create H<sub>2</sub> from CO<sub>2</sub>?
- Water Oxidation and *vice versa*
- Ammonia Synthesis and *vice versa*
- Reforming and Electrochemical reforming
- Electrostatic Ion Adsorption
- Spatiotemporal Pattern Formation
- Computational Electrochemistry

## Award Lectures (2018 Ertl Prize Winner)

Jinsub Choi	Inha University
Zhifeng Ding	University of Western Ontario

## Keynote, Invited and Contributed Speakers (17 September 2018)

Chang Hyuck Choi	GIST
Jiangkun Du	China University of Geosciences (Wuhan)
Hyung Chul Ham	KIST
Beomgyun Jeong	KBSI
Cheonghee Kim	TU Berlin
Jongsik Kim	KIST
Youngkook Kwon	KRICT
Gibaek Lee	Yeungnam University
Kiyoung Lee	Kyungpook National University
Jongwoo Lim	Seoul National University
Olaf Magnussen	Christian-Albrechts University Kiel
Daniel Mandler	The Hebrew University of Jerusalem
Byoung Koun Min	KIST
Kyung-Eun Min	GIST
Hirohisa Nagatani	Kanazawa University
Bui Thi Phuong Quynh	Ho Chi Minh City University of Food Industry
Julie Anne D. del Rosario	UP Diliman
Robert Schlögl	FHI der MPG & MPI for Chemical Energy Conversion
Hyun Ook Seo	Sangmyung University
Dongyoon Shin	MPI for Chemical Energy Conversion
Woonsup Shin	Sogang University

Marc F. Tesch	MPI for Chemical Energy Conversion
Yujin Tong	FHI der MPG
Hamilton Varela	University of São Paulo
Boon Siang Jason Yeo	National University of Singapore
Jeyong Yoon	Seoul National University

## Abstract Submission by 10 October 2018

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)

## Special Issue

The symposium proceedings will be published in a special issue of **Catalysis Today** on Catalytic and Adsorption Reactions in chemical ProcessEs. Articles will be subject to the standard peer review for an Elsevier journal. The Catalysis Today website is active for this special issue (CARPE) and contributions can be uploaded starting **25 October 2018**. The deadline for submission of manuscripts is **31 January 2019**.

Guest Editors: Jaeyoung Lee (GIST), Sang Hoon Kim (KIST), Chang Hyuck Choi (GIST)

Catalysis Today: IF = 4.667, mnrIF = 92.85, Applied Chemistry Category = 6/71

## Conference Fee & On-line Registration : <https://ertl.fhi.tools/registration/>

- ▶ Regular participants: 350 Euro (450,000 KRW)      Students: 200 Euro (250,000 KRW)
- The registration fee includes a copy of the book of abstracts, Tutorial Course and Coffee Break
- Payment: in CASH or Credit Card at the registration desk upon arrival.

## Conference Venue

The 5<sup>th</sup> Ertl Symposium will be held at the Kimdaejung convention center (<https://www.kdjcenter.or.kr/eng/>) The hall has state-of-the-art conference facilities and is an ideal meeting location.

KDJ Center can be reached by bus, train, or airplane from Incheon International Airport and is well connected by plane (40 min. from Gimpo), high-speed train (90 min. from Gwangmyeong Station) and express bus (3 hrs 30 min. from Seoul).



## Program (Tentative)

Time		Monday (26/11/2018)	Tuesday (27/11/2018)	Wednesday (28/11/2018)
08:00 – 09:00	60	Registration		
09:00 – 10:30	90	<p><i>Youngkook Kwon</i> <span style="float:right">abc</span></p> <p><b>Tutorial Course</b> <b>AP-XPS in/for</b> <b>Electrochemistry</b></p> <p>Beomgyun Jeong</p>	<p>Award Lecture 2 / 40 <b>Jinsub Choi</b></p> <p>Invited 7 / 25 <b>tbc</b></p> <p>Invited 8 / 25 <b>tbc</b></p>	<p><i>abc</i></p> <p>Invited 14 / 25 <b>tbc</b></p> <p>Contributed Oral 8 / 20 <b>tbc</b></p> <p>Contributed Oral 9 / 20 <b>tbc</b></p> <p>Invited 15 / 25 <b>tbc</b></p>
10:30 – 11:00	30	Coffee Break		
11:00 – 12:35	95	<p><i>Hye Jin Lee</i> <span style="float:right">abc</span></p> <p>Opening Address / 2 <b>Jaeyoung Lee</b></p> <p>Congratulatory Address / 3 <b>Prof. Gerhard Ertl</b></p> <p>Award Lecture 1 / 40 <b>Zhifeng Ding</b></p> <p>Invited 1 / 25 <b>tbc</b></p> <p>Invited 2 / 25 <b>tbc</b></p>	<p>Keynote 3 / 30 <b>tbc</b></p> <p>Contributed Oral 4 / 20 <b>tbc</b></p> <p>Contributed Oral 5 / 20 <b>tbc</b></p> <p>Invited 9 / 25 <b>tbc</b></p>	<p><i>abc</i></p> <p>Keynote 6 / 30 <b>tbc</b></p> <p>Contributed Oral 10 / 20 <b>tbc</b></p> <p>Contributed Oral 11 / 20 <b>tbc</b></p> <p>Invited 16 / 25 <b>tbc</b></p> <p>Closing Remarks / 10 <b>Hye Jin Lee</b></p>
12:35 – 14:15	100	Lunch		
14:15– 15:55	100	<p><i>abc</i></p> <p>Keynote 1 / 30 <b>tbc</b></p> <p>Contributed Oral 1 / 20 <b>tbc</b></p> <p>Invited 3 / 25 <b>tbc</b></p> <p>Invited 4 / 25 <b>tbc</b></p>	<p><i>abc</i></p> <p>Keynote 4 / 30 <b>tbc</b></p> <p>Contributed Oral 6 / 20 <b>tbc</b></p> <p>Invited 10 / 25 <b>tbc</b></p> <p>Invited 11 / 25 <b>tbc</b></p>	<p>Personal Excursion (Gwangju &amp; Seoul)</p>
15:55– 16:30	35	<p>Coffee and Tea Break (Photo Time on Monday &amp; Special Event on Tuesday)</p>		
16:30 – 18:30	120	<p><i>abc</i></p> <p>Keynote 2 / 30 <b>tbc</b></p> <p>Contributed Oral 2 / 20 <b>tbc</b></p> <p>Invited 5 / 25 <b>tbc</b></p> <p>Invited 6 / 25 <b>tbc</b></p> <p>Contributed Oral 3 / 20 <b>tbc</b></p>	<p><i>abc</i></p> <p>Keynote 5 / 30 <b>tbc</b></p> <p>Contributed Oral 7 / 20 <b>tbc</b></p> <p>Invited 12 / 25 <b>tbc</b></p> <p>Invited 13 / 25 <b>tbc</b></p> <p>Award Ceremony / 20 <b>Jaeyoung Lee</b></p>	
18:30 – 21:00	150	Poster Session	Symposium Dinner (Ramada Plaza Gwangju)	

## Supports and Sponsors



THE Ertl Center



FHI der MPG



Environmental Convergence  
Science & Technology  
for Sustainable Environment



## Accommodation

Special Rates for the participants of the 5th Ertl Symposium (Promo code: ERTL)

- ① Ramada Plaza Gwangju: 160,000 KRW (123 EUR)  
<http://www.ramadagwangju.com/eng/main/main.php>, E-mail: [mhjo@ramadagwangju.com](mailto:mhjo@ramadagwangju.com)
- ② F&T Business Hotel: 66,000 KRW (50 EUR)  
<http://www.fnthotel.co.kr>, E-mail: [Kws1216@naver.com](mailto:Kws1216@naver.com), Phone: +82-62-714-1003

Room rate: per night & room incl. tax, service charge & rich/small breakfast buffet.

**Reservations should be made individually.** Nearby hotels ranging from 2-star to 5-star offer additional accommodation.

## About Gwangju

Gwangju, also called the City of Light, with a population of 1.5 million, is the fifth largest city in South Korea. Gwangju is situated in Southwestern part of South Korea, about 300 kilometers south of Seoul and can be easily reached from other major cities in South Korea. Gwangju has long been renowned for its tradition, customs, culture and arts. It is home to the Gwangju Biennale, held every two years to celebrate the worldwide artistic accomplishments by accommodating works of both Asian and contemporary Western art. The city has an important place in the history of South Korea's democracy and human-rights movement.

