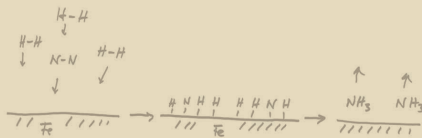


International



5th 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



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"

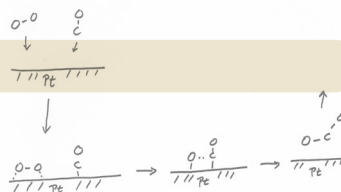


*"CARPE Diem"***Introduction**

At the beginning of the 21st 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 5th 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 H₂ from CO₂?
- 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 (31 October 2018)

Chang Hyuck Choi	GIST
Yuxiao Ding	MPI for Chemical Energy Conversion
Jiangkun Du	China University of Geosciences (Wuhan)
Hyung Chul Ham	KIST
Sujik Hong	GIST
Beomgyun Jeong	KBSI
Hyungjun Kim	KAIST
Jongsik Kim	KIST
Seoni Kim	Seoul National University
Youngkook Kwon	KRICT
Chang Hyun Lee	Dankook University
Gibaek Lee	Yeungnam University
Kiyoung Lee	Kyungpook National University
Jongwoo Lim	Seoul National University
Yang-Ming Lin	MPI for Chemical Energy Conversion
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
Naoya Nishi	Kyoto 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
Hamilton Varela
Jung-Je Woo
Boon Siang Jason Yeo

FHI der MPG
University of São Paulo
KIER
National University of Singapore

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

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 (VSI: CARPE) and contributions can be uploaded starting **25 October 2018**. The deadline for submission of manuscripts is **07 February 2019**.

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

Catalysis Today: IF = 4.667, mrnlF = 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 5th 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

Time		Sunday (25 Nov.)	Monday (26 Nov.)	Tuesday (27 Nov.)	Wednesday (28 Nov.)
08:00 – 09:00	60		Registration		
09:00 – 10:30	90		<i>Sang Hoon Kim</i> Tutorial Course AP-XPS in/for Electrochemistry Beomgyun Jeong	<i>Chang Hyuck Choi</i> Invited 8 / 25 Naoya Nishi Contributed Oral 2 / 20 Gibaek Lee Contributed Oral 3 / 20 Julie Anne del Rosario Invited 9 / 25 Beomgyun Jeong	<i>Beomgyun Jeong</i> Keynote 6 / 30 Yujin Tong Contributed Oral 5 / 20 Hamilton Varela Contributed Oral 6 / 20 Dongyoon Shin Contributed Oral 7 / 20 Sujik Hong
10:30 – 11:00	30	Arrival	Coffee Break		
11:00 – 12:35	95		<i>Hye Jin Lee</i> Opening Address / 5 Jaeyoung Lee Award Lecture / 40 Jinsub Choi Invited 1 / 25 Hirohisa Nagatani Invited 2 / 25 Jiangkun Du	<i>Hirohisa Nagatani</i> Award Lecture / 40 Zhifeng Ding Keynote 3 / 30 Byoung Koun Min Invited 10 / 25 Hyun Ook Seo	<i>Youngkook Kwon</i> Invited 16 / 25 Chang Hyuck Choi Invited 17 / 25 Marc F. Tesch Invited 18 / 25 Kiyoung Lee Contributed Oral 8 / 20 Jung-Je Woo
12:35 – 14:15	100		Lunch		Closing Remarks / 10 Sang Hoon Kim
14:15- 15:55	100		<i>Hyun Ook Seo</i> Keynote 1 / 30 Kyung-Eun Min Invited 3 / 25 Seoni Kim Contributed Oral 1 / 20 Yangming Lin Invited 4 / 25 Jongsik Kim	<i>Yujin Tong</i> Keynote 4 / 30 Daniel Mandler Invited 11 / 25 Youngkook Kwon Contributed Oral 4 / 20 Yuxiao Ding Invited 12 / 25 Chang Hyun Lee	
15:55- 16:30	35	Technical & Culture Tour (GIST & ACC)	Coffee and Tea Break (Photograph Time on Monday and Special Event on Tuesday)		Personal Excursion (Gwangju & Seoul)
16:30 – 18:15	105		<i>Boon Siang Jason Yeo</i> Keynote 2 / 30 Olaf Magnussen Invited 5 / 25 Hyung Chul Ham Invited 6 / 25 Bui Thi Phuong Quynh Invited 7 / 25 Hye Jin Lee	<i>Hamilton Varela</i> Keynote 5 / 30 Woonsup Shin Invited 13 / 25 Boon Siang Jason Yeo Invited 14 / 25 Hyungjun Kim Invited 15 / 25 Jongwoo Lim	
18:30 – 21:00	150	Registration	Poster Session	Symposium Dinner (Ramada Plaza Gwangju)	

Supports and Sponsors



THE Ertl Center



FHI der MPG



BrainKorea21PLUS
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 (ca. 123 EUR)
<http://www.ramadagwangju.com/eng/main/main.php>, E-mail: resv@ramadagwangju.com
- 2 F&T Business Hotel: 69,000 KRW (ca. 53 EUR)
<http://www.fnthotel.co.kr>, E-mail: Kws1216@naver.com

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. Currency: 1 EUR = ca. 1300 KRW

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.

