

IZC '19

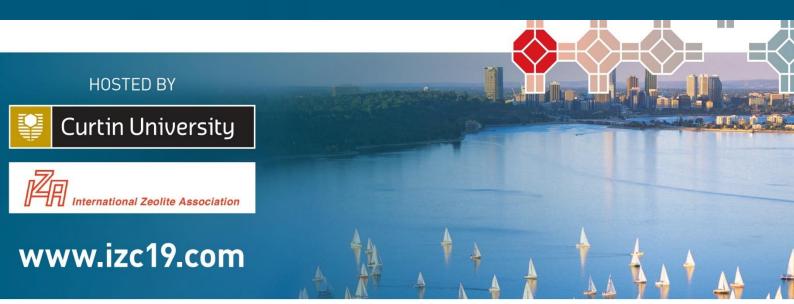
19TH INTERNATIONAL ZEOLITE CONFERENCE

PERTH, AUSTRALIA 7-12 JULY 2019

FINAL REPORT 2019

International Zeolite Conference 2019 | Perth, Western Australia





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Summary of the event

The International Zeolite Conference was held in Perth, Western Australia at Crown Convention Centre, Perth from 7th – 12th July 2019. The theme of the conference was 'Zeolites Porous Solids – the Foundation of Advanced Chemical Technology.

Over 509 international delegates descended to Perth to attend preconference workshops, listen to invited international and national plenary speaker and participated in five-day program alongside an interactive social program which catered for accompanying partners and families.

Meeting at a Glance

Total number of Delegates: 509

Abstracts Submitted:674 Oral Presentations: 204 Poster Presentations: 195

Sponsorship Income: \$128,381.44 Exhibition Income: \$26,350.00

Meeting Hosts





Organising Committee

Prof. Moses Tade (Chair), Curtin University

Prof. Michael Stockenhuber (Co-Chair, International Advisory/Scientific Board), University of Newcastle

Prof. Shaobin Wang (Co-Chair, International Advisory/Scientific Board), Curtin University

Prof. Thomas Maschmeyer (Deputy-Chair, International Advisory/Scientific Board),

The University of Sydney

Prof. Jun Huang (Co-Lead, Pre-Conference School), The University of Sydney

Prof. Hongqi Sun (Co-Lead, Pre-Conference School), Edith Cowan University

Prof. Ajayan Vinu (Co-Lead, Pre-Conference School), University of Newcastle

Prof. Shizhang Qiao, The University of Adelaide

Mr. Greg Stephen, Zeolite Australia Pty Ltd

Prof. Huanting Wang, Monash University

Prof. Paul Webley, The University of Melbourne

Prof. George Zhao, The University of Queensland

Ms. Renee Bennett, Encanta Event Management

Ms. Emily Chee, Encanta Event Management

International Advisory/Scientific Board

Co-Chairs: Prof. Michael Stockenhuber, University of Newcastle, and Prof. Shaobin Wang, Curtin University Deputy Chair: Prof. Thomas Maschmeyer,

The University of Sydney

Members (in alphabetical order):

Prof. Michael Anderson, The University of Manchester, UK

Prof. Teresa J. Bandosz, The City College of New York, USA

Prof. Peter Behrens, Leibniz, Univeritat Hannover, Germany

Prof. Suk Bong Hong, POSTECH, South Korea

Dr. Jiri Cejka, Academy of Sciences of the Czech Republic,

Czech Republic

Dr. Con-Yang Chen, Chevron, USA

Prof. Shunai Che, Shanghai Jiao Tong University, China

 ${\bf Prof.\ Avelino\ Corma,\ ITQ-CSIC-Polytechnical\ University\ of}$

Valencia, Spain

Prof Jack Fletcher, University of Cape Town, South Africa

Prof. Anne Galarneau, Institut Charles Gerhardt

Montpellier, France

Dr. Ashim Ghosh, SABIC Technology Centre, USA

Prof. Girolamo Giodano, University of Calabria, Italy

Prof. Martin Hartmann, FAU Erlangen-Nürnberg, Germany

Prof. Irina Ivanova, Moscow State University of Civil

Engineering, Russia

Dr Sai P. Katikaneni, Saudi Aramco, Saudi Arabia

Prof. Majeda Khraisheh, Qatar University, Qatar

Prof. Susumu Kitagawa, Kyoto University, Japan

Assoc. Prof. Jian Liu, University of Surrey, UK

Prof. Zhongmin Liu, Dalian Institute of Chemical Physics,

China

Prof. Max Lu, University of Surrey, UK

Prof. Svetlana Mintova, National Graduate School of

Engineering and Research, France

Prof. Tatsuya Okubo, The University of Tokyo, Japan

Prof. Shilun Qiu, Jilin University, China

Prof. Ben Slater, University College London, UK

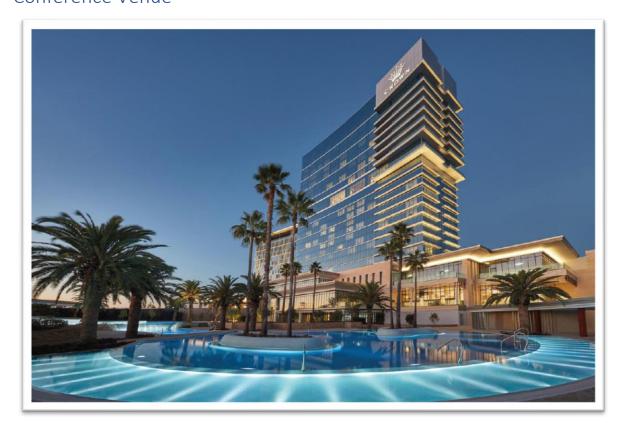
Prof. Jeroen van Bokhoven, ETH Zurich, Switzerland

Prof. Jihong Yu, Jilin University, China

Prof. Dongyuan Zhao, Monash University and Fudan

University, China

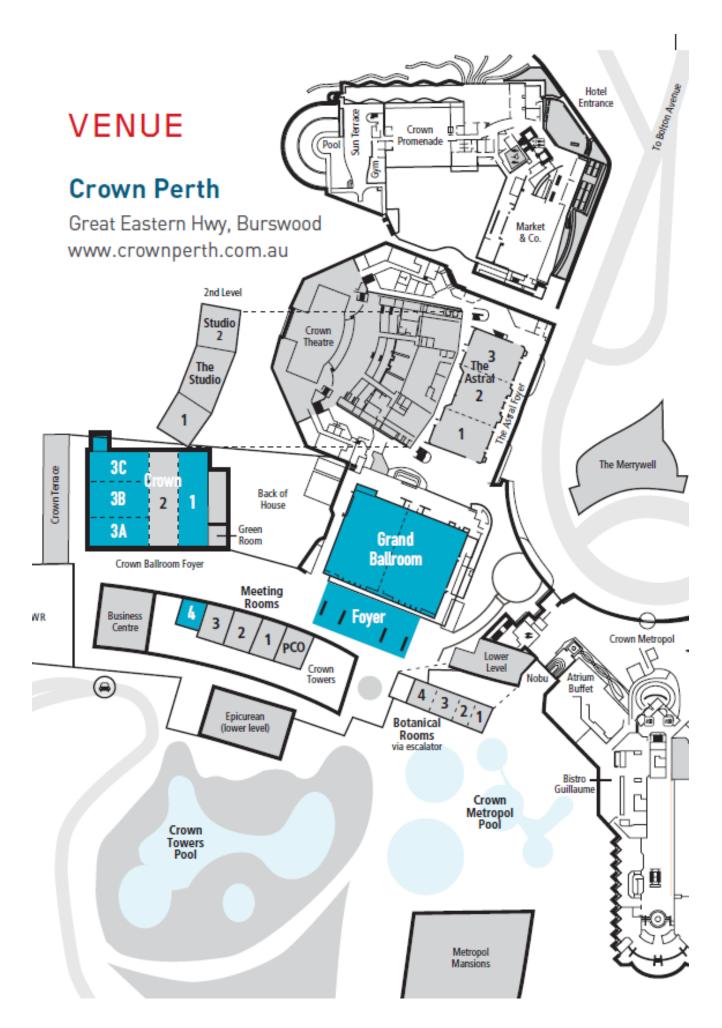
Conference Venue



Crown Perth

Crown Perth was the host for the IZC'19 Conference in July. The complex boasts the 6-star Crown Towers, Crown Metropol and Crown Promenade all within a short walking distance to the conference facilities. The venue has an array of restaurants, bars and a variety of entertainment options all providing you with ample networking opportunities.

Plenary Sessions	Crown Ballroom
Concurrent Session Rooms	Crown Ballroom, Crown 1,2,3
Registration Desk	Grand Ballroom Foyer (outside Exhibition)
Exhibition Area	Grand Ballroom
Catering served in Exhibition area	Amongst the Exhibitors in Grand Ballroom



Pre- Conference School

Pre-Conference school was held on Friday 6 July and Saturday 6 July at Crown Perth, Meeting Room 1. This event was open to all young researched (students, post graduate students, PhD students and early career researchers) in the field of zeolites and porous materials.

Pre-Conference School Program -Friday 5 July

Time	Topic
8:45am – 9:00am	Welcome
9:00am – 11:00am	Synthesis of zeolite crystalline
	Prof Michael Anderson
11:00am – 11.30am	Morning tea
11:30am – 1:30pm	Metal-Organic Frameworks
	Prof Cameron Kepert
1.30pm – 2.30pm	Lunch
2.30pm – 4.30pm	Synthesis and catalytic testing of hierarchical zeolites Prof Martin Hartmann

Pre-Conference School Program - Saturday 6 July

Time	Торіс
9:00am – 11:00am	Synthesis of Functional Mesoporous Materials for Applications
	Prof Dongyuan Zhao
11:00am – 11.30am	Morning tea
11:30am – 1:30pm	Zeolite in environmental applications
	Prof Pegie Cool
1.30pm – 2.30pm	Lunch
2.30pm – 4.30pm	Advanced zeolite characterization by thermal analysis
	Prof Antonio S. Araujo
4.30pm – 5.00pm	Close

Pre-Conference School Registration

Cost: \$245.00 pp

Registration was required to attend the Pre-Conference School which included morning tea and lunch on both days.

Pre-Conference School Speakers



Prof Michael Anderson

Professor of Materials Chemistry

The University of Manchester, United Kingdom

Following his undergraduate studies in Chemical Physics at Edinburgh University he conducted his PhD work in the group of John M. Thomas in Cambridge. Following various post-doctoral appointments in the USA he was appointed to the faculty at the University of Manchester (formerly UMIST) in 1990 where he is now Professor of Materials Chemistry and Director of the Centre for Nanoporous Materials. He is currently an Adjunct Professor at Curtin University.



Prof Antonio S. Araujo

Head of the Laboratory of Catalysis and Petrochemistry (LCP)

Institute of Chemistry, Federal University of Rio Grande do Norte,

Brazil

Antonio S. Araujo received his PhD degree in Science in 1992 at the University of Sao Paulo (Brazil). Then, he moved for the Institute of Chemistry at Federal University of Rio Grande do Norte. In 1998, He was postdoctoral fellow at Kent State University, Ohio (USA).



Head of the Laboratory of Adsorption and Catalysis (LADCA)

Department of Chemistry, University of Antwerp, Belgium

Pegie Cool received her PhD degree in Science in 1998 at the University of Antwerp, Belgium. For 6 years she was postdoctoral fellow of the FWO-Flanders. As a postdoctoral researcher she was associated at the Texas A&M University, USA and at the University of Queensland, Australia. In 2004 she became assistant professor and since 2012 she is full professor in the Chemistry Department at the University of Antwerp and head of the Laboratory of Adsorption and Catalysis.



Prof Martin Hartmann

Professor of Catalysis

Erlangen Catalysis Resource Center, Germany

Martin Hartmann studied chemistry at TU Dortmund and obtained his Ph.D. in 1993. He held postdoctoral positions at the University of Houston (1994-1995), University of Stuttgart (1996-1999) finished his Habilitation in Chemical Technology at TU Kaiserslautern in 2002.



Prof Cameron Kepert

Professor in the School of Chemistry

The University of Sydney

Cameron Kepert is a Professor in the School of Chemistry at the University of Sydney. He received his B.Sc.(Hons) from the University of Western Australia, PhD from the Royal Institution of Great Britain/University of London, and was a Junior Research Fellow at the University of Oxford from 1995-1998.



Prof Dongyuan Zhao
Senior Editor of ACS Central Science, Department of Chemistry
Fudan University

Professor Dongyuan Zhao was born in Northeastern of China, he received B.S. (1984), M.S. (1987) and PhD (1990) from Jilin University. He was a post-doctoral fellow in University of Houston (1995–96), University of California at Santa Barbara (1996–98). Now he is a Professor (Cheung Kong and Hao-Qing Professorship) in the Department of Chemistry at Fudan University.

International Zeolite Conference Program: *Scientific Program & Keynote Speakers*

The 19th IZC Conference gathered "zeolite people" from around the world ranging from young students, early mid-career researchers, industry practitioners and colleagues to Perth to showcase the most recent scientific and technological advances in zeolites field of research. The program particularly focused on recent developments in synthesis, characterisation, computational and theoretical aspects and related investigations. The program was a similar formula to previous zeolite conferences.

Keynote Speakers



Prof Jie-Sheng Chen
Professor at Shanghai Jiao Tong University.

Jie-Sheng Chen is currently a professor at Shanghai Jiao Tong University. He received his BSc (1983) and MSc (1986) degrees from Sun Yat-sen University and PhD degree (1989) from Jilin University.



Prof Mark E Davis

Warren and Katharine Schlinger Professor of Chemical Engineering

California Institute of Technology

Mark E. Davis is the Warren and Katharine Schlinger Professor of Chemical Engineering at the California Institute of Technology, Pasadena, CA USA. He has over 450 scientific publications, two textbooks and over 90 US patents.



Prof Tina Düren

Centre for Advanced Separations Engineering, Department of Chemical Engineering, University of Bath, UK

Tina Düren received her PhD in 2002 from the Technical University Hamburg-Harburg, before spending two years as a postdoctoral researcher with Prof Randy Snurr's group at Northwestern University, USA.



Prof Jean-Pierre Gilson

Université de Caen – CNRS

Jean-Pierre Gilson graduated cum-laude from the University of Namur (Belgium) under the guidance of Prof. Eric G. Derouane and Zélimir Gabelica.

During his industrial (UOP, Grace & Shell) and academic (Distinguished Professor, ENSICAEN, France) career he combined fundamental studies in

catalysis with their applications in oil refining, petrochemistry and renewables.



Prof Christopher W. Jones

Love Family Professor of Chemical & Biomolecular Engineering and the Associate Vice President for Research, Georgia Tech

Professor Jones is the Love Family Professor of Chemical & Biomolecular Engineering and the Associate Vice President for Research at Georgia Tech.



Dr Omer Koseoglu

Principal Professional, Refining Development Team, Saudi Aramco R&D Center

Dr. Omer Refa Koseoglu is a Principal Professional at the Saudi Aramco Research and Development Center, leading the Refining Development Team. He has a Ph.D. degree in Chemical Engineering from the University of Toronto, Canada.



Prof Johannes A. Lercher

Director of the Institute for Integrated Catalysis

Pacific Northwest National Laboratory

Department of Chemistry

TU München

Johannes A. Lercher, studied Chemistry at TU Wien, receiving his PhD in 1981 at the same institution. After a year at Yale University, he joined TU Wien as Lecturer, later Associate Professor.



Dr Hong-Xin Li R&D Director Zeolyst International

Dr Hong-Xin Li is the R&D Director at Zeolyst International, a joint venture of PQ Corporation and Shell.



Prof. Bao-Lian Su
University of Namur

Dr. Sc of the University Pierre and Marie Curie, France in 1992, Member of the European Academy of Sciences, Member of the Royal Academy of Belgium, Fellow of the Royal Society of Chemistry and Clare Hall Life Member, University of Cambridge, Prof. Su held "Belgian Francqui Chaire".



Prof M Lakshmi Kantam
ICT Mumbai

Prof. Lakshmi Kantam is Dr.B.P. Godrej Distinguished Professor at Institute of Chemical Technology, Mumbai, India. Earlier, she served as Director at CSIR-IICT, Hyderabad. She is an Adjunct Professor at RMIT University, Melbourne, Australia.



Dr Lynne McCusker

Department of Materials, ETH Zurich

Lynne McCusker has been studying the crystal structures of zeolites for over 40 years, the last 30 of these at ETH Zurich.



Prof Xiao-Ming
Professor, Sun Yat-Sen University

Xiao-Ming Chen obtained his BSc (1983) and MSc (1986) degrees from Sun Yat-Sen University (SYSU), Guangzhou, China, and PhD degree (1992) from The Chinese University of Hong Kong, Hong Kong. He joined the chemistry faculty at SYSU since 1992, and became a professor since 1995.



Dr. Nikolaï Nesterenko

Total Research & Technology Feluy, Seneffe, Belgium

Dr. N. Nesterenko (b. 1977) started his career in heterogeneous catalysis in 1996 with a specific focus on zeolite-based materials.



Prof Javier Pérez-Ramírez
Professor of Catalysis Engineering
Swiss Federal Institute of Technology

Javier Pérez-Ramírez studied Chemical Engineering at the University of Alicante and received his PhD degree at Delft University of Technology in 2002.

Invited Speakers



Prof Pegie Cool

Head of the Laboratory of Adsorption and Catalysis (LADCA)

Department of Chemistry, University of Antwerp, Belgium

Pegie Cool received her PhD degree in Science in 1998 at the University of Antwerp, Belgium. For 6 years she was postdoctoral fellow of the FWO-Flanders.



Dr Parasuraman Selvam

Head, National Centre for Catalysis Research, and Professor in the Department of Chemistry, Indian Institute of Technology-Madras (IIT-Madras), Chennai, India; Adjunct Faculty, School of Chemical Engineering and Analytical Science, The University of Manchester, Manchester, and Department of Chemical and Process Engineering, University of Surrey, Guildford, UK



Prof Feng-Shou Xiao

Distinguished Professor, Department of Chemistry, Zhejiang University

Prof. Feng-Shou Xiao received his B.S. and M.S. degrees in the Department of Chemistry, Jilin University, China. From there he moved to Dalian Institute of Chemical Physics, China for Ph. D. research, then to the Catalysis Research Center, Hokkaido University, Japan, where he was involved in collaborative research between Dalian Institute of Chemical Physics & Jilin University,

China with Hokkaido University, Japan

Dr Teng Xu

ExxonMobil Chemical

Prof Ganapati Yadav

ICT Mumbai

Plenary Speakers



Dr Jeffery C Bricker
Senior Director of Research and Development
UOP-Honeywell

Dr Jeffery Bricker is the Senior Director of Research at UOP, which provides expertise and conducts research in the areas of New Materials, Catalysis, Advanced Characterization & Analytical, Membranes, Bio-Renewables, and Exploratory Platforms.



Prof Johan A Martens

Centre for Surface Chemistry and Catalysis

University of Leuven

Johan A. Martens was born in Brussels, Belgium, on January 22, 1958. He is professor of Physical Chemistry at the University of Leuven in Belgium. He is head of Catalysis Division and affiliated with the Centre for Surface Chemistry and Catalysis.



Prof Xiulian Pan
Professor of the State Key Laboratory of Catalysis,
Dalian Institute of Chemical Physics,
Chinese Academy of Sciences

Prof Pan has been a Professor of the State Key Laboratory of Catalysis as the Dalian Institute of Chemical Physics, Chinese Academy of Sciences since 2009.



Prof Dr Ferdi Schüth

Max-Planck-Institut für Kohlenforschung

He studied Chemistry and Law at the Westfälische Wilhelms-Universität (Münster). He received his doctorate in Chemistry in 1988 and passed the First State Exam in Law in 1989. After 5 years as scientific assistant at the Johannes-Gutenberg-Universität (Mainz) he became Professor in Chemistry in 1995



Prof Wataru Ueda

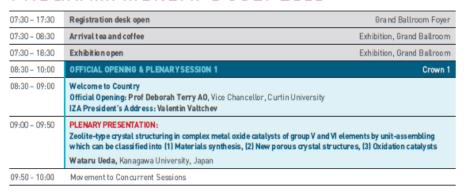
Department of Material and Life Chemistry, Faculty of Engineering,
Kanagawa University

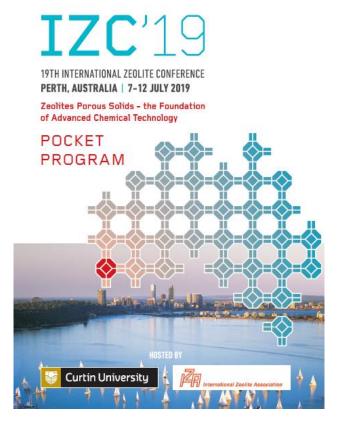
Wataru Ueda is currently a Professor at Kanagawa University. He is also an emeritus professor of Hokkaido University.

Program at a glance

- Commences Sunday evening 6.00pm with the Welcome Reception amongst the exhibition and will include a visit from some Australian animals
- Official Opening to be held Monday 8 July commencing 8.30am in Crown 1
- Each day commences with one of the 5 invited plenary speakers
- Poster sessions are held on Monday and Tuesday and provide an opportunity to meet with the authors and enjoy some light hospitality
- Wednesday half day program followed by a Cultural tour to the Swan Valley
- Thursday IZA General Assembly followed by the Conference Dinner at Kings Park
- Friday concludes with thank you

PROGRAM: MONDAY 8 JULY 2019





PROGRAM: Sunday 7 July 2019

1400 - 1900	REGISTRATION DESK OPEN	Grand Ballroom Foyer
1400 – 1700	EXHIBITOR MOVE IN	Exhibition, Grand Ballroom
1800 - 1930	WELCOME RECEPTION Sponsored by	Exhibition, Grand Ballroom
	CHINA CATALYST GROUP	

0730 - 1730	REGISTRATION DESK OPEN			Grand Ballroom Foyer		
0730 - 0830	ARRIVAL TEA AND COFFEE			Exhibition, Grand Ballroom		
0730 - 1830	EXHIBITION OPEN	EXHIBITION OPEN Exhibition, Grand Ballroom				
0830 – 1000	OFFICIAL OPENING & PLENARY SESSION 1 Chair: Michael Stockenhuber and Thomas Maschmeyer			Crown 1		
	Welcome to Country Welcome to the 19 th International Zeolite Conference, Pro Official Opening: Prof Deborah Terry AO, Vice Chancellor, O IZA President's Address: Valentin Valtchev					
0900 – 0950	PLENARY PRESENTATION: Zeolite-type crystal structuring Oxidation catalysts Wataru Ueda, Kanagawa University, Japan	g in complex metal oxide catalysts of group V and VI eleme	nts by unit-assembling" which can be classified into (1) Ma	aterials synthesis, (2) New porous crystal structures, (3)		
0950 - 1000	Movement to Concurrent Sessions					
1000 - 1100	2.1.1	2.1.2	2.1.3	2.1.4		
	Adsorption and catalysis Sponsored by BEL MicrotracBEL Corp.	Crystalline Porous and Hierarchically structured materials (zeolites, composites, bio-inspired, layered	Synthesis methods, New Synthetic and Natural Zeolites	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties)		
Chair	Shaobin Wang	Javier Perez-Ramirez	Hong-Xin Li	Robert Bell		
Room	Crown 3B	Crown 1	Crown 3A	Crown 3C		
1000	Selective oxidation of methane to methanol over binuclear cationic structures in zeolites Jiri Dedecek J. Heyrovský Institute of Physical Chemistry of the CAS Czech Republic Paper #59	Green and Versatile Synthesis Approach for Hierarchical Zeolites by Using Natural Aluminosilicate Minerals as Raw Materials: From Laboratory Studies to Industrial Application Xiaojun Bao Fuzhou University China Paper #41	Study on Acidity and Crystal Size of Twinned SAPO-34 templated by 1-Methylpyrrolidine Shihang Liang Research Institute of Petroleum Processing, SINOPEC China Paper #452	Beyond Classical Nucleation Theory: Hydrated Silicate lonic Liquids Eric Breynaert KU Leuven - COK-KAT Belgium Paper #55		
1020	Hydrophobicity as a key in methane catalytic combustion on modular Pd / zeolite composites Pit Losch Max-Planck-Institut Für Kohlenforschung Germany Paper# 260	Allosteric Regulation of Protease Activity via Anchoring on Zeolite Surface Lisha Yu Zhejiang University China Paper# 222	Preparation of All-silica RWR-type Zeolite Containing Pt Nanoparticles through Interlayer Condensation of Layered Octosilicate Masakazu Koike Waseda University Japan	Impact of the extra-framework aluminum species on the properties of Brønsted acid sites in Y zeolites by using thiophene probe molecule: A periodic DFT study Jian Zheng Liaoning Shihua University China		

			Paper# 356	Paper# 197
1040	High-silica potassium-exchanged LTA zeolite as a molecular trapdoor adsorbent for post-combustion CO2 capture Jin Shang City University of Hong Kong Hong Kong Paper# 297	An Inspiring Combination: Mesoporous Silica Nanoparticles Embedded in Nanoporous Platinum Peter Behrens Leibniz University Hannover Germany Paper# 247	Transient Modes of Zeolite Surface Growth and Methods to Switch between Classical and Nonclassical Pathways of Crystallization Jeffrey Rimer University of Houston United States Paper# 546	Tuning of Al organization and cation siting of SSZ-13 Stepan Sklenak J. Heyrovsky Institute of Physical Chemistry of The Czech Academy of Sciences Czech Republic Paper# 469
1100 - 1130	MORNING TEA	<u>l</u>		Exhibition, Grand Ballroom
1130 - 1310	2.2.1 Adsorption and catalysis Sponsored by	2.2.2 Crystalline Porous and Hierarchically structured materials (zeolites, composites, bio-inspired, layered)	2.2.3 Synthesis methods, New Synthetic and Natural Zeolites	2.2.4 Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties)
Chair	MicrotracBEL Corp. Hongqi Sun	Massimo Migliori	Antonio Araujo	Moses Tade
Room	Crown 3B	Crown 1	Crown 3A	Crown 3C
1130		Overcoming Irreversible Restacking of Mg-Al Double Hydroxide Nanosheets through Thermal Activation in H2 or N2: Synthesis of Mixed Metal Oxides with High Surface Area and Basic Site Density Isao Ogino	Investigating the role of framework topology on acidity in silicoaluminophosphates Matthew Potter University of Southampton	
	KEYNOTE: Understanding and controlling sorption and catalytic chemistry in the crowded environment of zeolite pores Johannes Lercher	Hokkaido University Japan Paper# 220	United Kingdom Paper# 236	KEYNOTE: Fast Room Temperature Lability of Aluminosilicate Zeolites Petr Nachtigall Charles University, Factuly Of Science
1150	TU Munchen Germany	Zeolite-Templated Synthesis of 3D Graphene-like Microporous Carbons Using Metal Cation Effect Taekyoung Lee KAIST/IBS South Korea Paper# 384	Structural Stabilization and Diversity of Germanosilicates Hao Xu East China Normal University China Paper#514	Czech Republic Paper #372
1210	Research on the reaction mechanism of methanol-to- olefins (MTO) over zeolites by solid-state NMR spectroscopy Wang Chao WIPM	Diastereoselective Protonation of Chiral Benzyl- Ephedrines through Confinement in Nanoporous Materials Luis Gomez-hortiguela Csic	Structure—activity relationship of hierarchical zeolites Michael Tsapatsis University of Massachusetts Amherst United States Paper# 479	Molecular Modeling of Penetration of Monovalent Cations into Zeolite N Membrane Monireh Khosravi Institute for Future Environments, Queensland University Of Technology

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China Pager# 354 Bifunctional Catalysts Based on Micro /Mesophrous Zeelike Valls followed by the Equation of Section 1 and interest and Pager# 233 Bifunctional Catalysts Based on Micro /Mesophrous Zeelike Valls followed by the Equation of Section 1 and interest transportation 1 and Int		_	·	_	
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Zeolite V with Enhanced Activity for Appears Phase Processing of Biomass-Derived Levulins Acid Nue Tong Va Universited Leipzig Australia		Paper# 354	Paper# 416	Paper# 233	Paper: 237
Zeolite V with Enhanced Activity for Appears Phase Processing of Biomass-Derived Levulins Acid Nue Tong Va Universited Leipzig Australia	1250	Pifunctional Catalysts Pasad on Micro /Masanarous	Mothana conversion to value added products over fo		
Processing of Biomass-Derived Levulinic Acid Hue Tong Vu Universitate Leiptig Germany Paper# 482 Linkersty of Newcastle Australia Australia Linkersty of Newcastle Piotr Michorczyk Institute Of Organic Chemistry And Technology, Cracow University Of Technology Poland Poper# 561 Linkersty of Technology Poland Poper# 564 Adsorption and catalysis Sponsored by Michael Stockenhuber Robert Millini Linkersty of Mexical Stockenhuber Nanosponge 15-1: a fully crystalline herarchical epoxidation catalyst receibers Highly efficient nanocatalysts for hydrogen generation Ning Wang Charles University Czech Republic Paper# 467 High anisotropic nanocellulose aerogeis with high- Hierarchical Hollow and nanosheet ZSM-5 with Synthesis and structural determination of template- Whybrid anisotropic nanocellulose aerogeis with high- Hierarchical Hollow and nanocheet ZSM-5 with Synthesis and structural determination of template-	1250				
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Institute Of Organic Chemistry And Technology, Cracow University Of Technology Paland Paper# 527 Institute Of Organic Chemistry And Technology, Cracow University Of Technology Paland Paper# 561		Hue Tong Vu	Guangyu Zhao		
Paper# 482 Paper#527 Paper#527 Paper#527 Paper#528 Paper#527 Paper#527 Paper#528 Paper#528 Paper#527 Paper#528 Paper#530 Paper		Universitaet Leipzig	The University of Newcastle	Piotr Michorczyk	
1310 - 1400 LUNCH 2.3.1 2.3.2 Crystalline Porous and Hierarchically structured materials (teolites, composites, bio-inspired, layered) Michael Stockenhuber Robert Millini Jun Huang Masahiko Matsukata Room Crown 3B Crown 1 Crown 3B Crown 3C 1400 Ultrasmall metal nanoparticles confined within eolites: Highly efficient nanocalasysts for hydrogen generation Ning Wang Charles University Jillu University Jillu University Gharles University Creek Republic Poper# 330 Poper# 378 1420 Hybrid anisotropic nanocellulose aerogels with high-Hierarchical Hollow and nanosheet ZSM-5 with Synthesis and structural determination of template-		Germany	Australia	Institute Of Organic Chemistry And Technology, Cracow	
1310 - 1400 LUNCH 2.3.1 2.3.2 2.3.3 2.3.4 2.3.3 2.3.4 2.3.5		Paper# 482	Paper#527	University Of Technology	
1310-1400 LUNCH 2.3.1 2.3.2 Adsorption and catalysis Sponsored by Sp				Poland	
Adsorption and catalysis Sponsored by Michael Stockenhuber Robert Millini Ultrasmall metal nanoparticles confined within generation Ning Wang Ning Wang China Paper# 467 Byerd 467 Hybrid anisotropic nanocellulose aerogels with high- New Paper# 467 Crystalline Porous and Hierarchically structured materials (zeolites, composites, bio-inspired, layered) Synthesis methods, New Synthetic and Natural Zeolites Synthesis methods, New Synthesis and Factor Synthesis and F				Paper# 561	
Adsorption and catalysis Spansored by Michael Stockenhuber Michael Stockenhuber Crown 38 Crown 1 Crown 3A Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Jilin University Crech Republic Paper# 467 Hierarchical Hollow and nanosheet ZSM-5 with Adsorption and catalysis Synthesis methods, New Synthetic and Natural Zeolites Jun Huang Masahiko Matsukata Crown 3C Synthesis and framework stabilization of new zeolite YNU-5 toward catalystic application Yoshihiro Kubota Yokohama National University Japan Paper# 278 The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath United Kingdom	1310 - 1400	LUNCH			Exhibition, Grand Ballroom
Sponsored by Michael Stockenhuber Robert Millini Crown 3B Crown 1 Crown 3A Crown 3A Crown 3C Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Jilin University China Paper# 467 Paper# 467 Highly anisotropic nanocellulose aerogels with high- Masahiko Matsukata Lorown 3A Crown 3A Crown 3C Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University Japan Paper# 278 The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath United Kingdom	1400 – 1600	2.3.1	2.3.2	2.3.3	224
Michael Stockenhuber Michael Stockenhuber Robert Millini Jun Huang Masahiko Matsukata Room Crown 3B Crown 1 Crown 3A Crown 3C Synthesis and framework stabilization of new zeolite yNU-5 toward catalytic application generation Jan Prech Ning Wang Charles University Czech Republic Paper# 467 Apper# 467 Washiko Matsukata Synthesis and framework stabilization of new zeolite yNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath United Kingdom					2.3.4
Michael Stockenhuber Room Crown 3B Crown 1 Crown 3A Crown 3C Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang China Paper# 467 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Poshihiro Kubota Yoshihiro Kubota Yokohama National University Japan Paper# 278 The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath United Kingdom		Adsorption and catalysis	Crystalline Porous and Hierarchically structured	Synthesis methods, New Synthetic and Natural Zeolites	Theory (modelling and simulation of frameworks, their
Room Crown 3B Crown 1 Crown 3A Crown 3C 1400 Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Ning Wang China Paper# 467 1420 Hybrid anisotropic nanocellulose aerogels with high- Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Porom 3A Crown 3C Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University Japan Paper# 278 The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath United Kingdom				Synthesis methods, New Synthetic and Natural Zeolites	Theory (modelling and simulation of frameworks, their
1400 Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Charles University Czech Republic Paper# 467 Paper# 467 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Yoshihiro Kubota Fapan Fapan Fapan Paper# 278 The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath United Kingdom 1420 Hybrid anisotropic nanocellulose aerogels with high-		Sponsored by BEL		Synthesis methods, New Synthetic and Natural Zeolites	Theory (modelling and simulation of frameworks, their
zeolites: Highly efficient nanocatalysts for hydrogen generation Jan Prech Ning Wang Charles University Czech Republic Paper# 467 1420 Hybrid anisotropic nanocellulose aerogels with high- Zeolites: Highly efficient nanocatalysts for hydrogen generation Jan Prech Yokohama National University YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath United Kingdom		Sponsored by BEL MicrotracBEL Corp.	materials (zeolites, composites, bio-inspired, layered)		Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties
Separation Jan Prech Yoshihiro Kubota KEYNOTE:	Room	Sponsored by BEL MicrotracBEL Corp. Michael Stockenhuber	materials (zeolites, composites, bio-inspired, layered) Robert Millini	Jun Huang	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata
Ning Wang Charles University Jilin University Czech Republic Paper# 330 Paper# 330 Paper# 278 The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath University of Bath United Kingdom		Sponsored by BEL MicrotracBEL Corp. Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata
Jilin University Czech Republic Paper# 330 Paper# 467 August 1420 Hybrid anisotropic nanocellulose aerogels with high- Charles University Czech Republic Paper# 330 Paper# 330 Paper# 278 Tina Düren University of Bath United Kingdom Screening of porous materials by combining molecular simulation and machine learning University of Bath United Kingdom		Sponsored by BEL MicrotracBEL Corp. Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C
China Paper# 467 University of Bath United Kingdom 1420 Hybrid anisotropic nanocellulose aerogels with high- Hierarchical Hollow and nanosheet ZSM-5 with Synthesis and structural determination of template-		Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C KEYNOTE:
Paper# 330 Paper# 278 Paper# 467 Paper# 467 University of Bath United Kingdom 1420 Hybrid anisotropic nanocellulose aerogels with high- Hierarchical Hollow and nanosheet ZSM-5 with Synthesis and structural determination of template-		Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Jan Prech	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C KEYNOTE: The autonomous material explorer: Intelligent
University of Bath United Kingdom 1420 Hybrid anisotropic nanocellulose aerogels with high- Hierarchical Hollow and nanosheet ZSM-5 with Synthesis and structural determination of template-		Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Jilin University	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Jan Prech Charles University	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C KEYNOTE: The autonomous material explorer: Intelligent screening of porous materials by combining molecular
1420 Hybrid anisotropic nanocellulose aerogels with high- Hierarchical Hollow and nanosheet ZSM-5 with Synthesis and structural determination of template-		Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Jilin University China	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Jan Prech Charles University Czech Republic	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University Japan	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C KEYNOTE: The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning
		Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Jilin University China	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Jan Prech Charles University Czech Republic	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University Japan	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C KEYNOTE: The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren
loadings of zeolite for selective CO2 capture Encapsulated Metal as Catalysts free nanosized CHA-type zeolite		Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Jilin University China	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Jan Prech Charles University Czech Republic	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University Japan	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C KEYNOTE: The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath
	1400	Michael Stockenhuber Crown 3B Ultrasmall metal nanoparticles confined within zeolites: Highly efficient nanocatalysts for hydrogen generation Ning Wang Jilin University China Paper# 467 Hybrid anisotropic nanocellulose aerogels with high-	Robert Millini Crown 1 Nanosponge TS-1: a fully crystalline hierarchical epoxidation catalyst Jan Prech Charles University Czech Republic Paper# 330	Jun Huang Crown 3A Synthesis and framework stabilization of new zeolite YNU-5 toward catalytic application Yoshihiro Kubota Yokohama National University Japan Paper# 278 Synthesis and structural determination of template-	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties Masahiko Matsukata Crown 3C KEYNOTE: The autonomous material explorer: Intelligent screening of porous materials by combining molecular simulation and machine learning Tina Düren University of Bath



	Walter Julian Rosas Arbelaez	Anfeng Zhang	Maxime Debost	
	Chalmers University of Technology	Dalian University of Technology	Laboratory of Catalysis And Spetrochemistry (lcs)	
	Sweden	China	France	
	Paper# 386	Paper# 437	Paper# 478	
1440	Probing zeolites with pyridine: quantitative AGIR	One-pot Solvent-free synthesis of c-axis oriented ZSM-5	INVITED:	Role of Ag cation in Ag-X membrane for
	measurements of the molar absorption coefficients	hollow fiber catalyst	STA-28: A Novel Zeotype Prepared Using Framework	propylene/propane separation
	Vladimir Zholobenko	Xinqing Chen	Bound Organic Structure Directing Agents	Masahiko Matsukata
	Keele University	Shanghai Advanced Research Institute	Alessandro Turrina	Waseda University
	United Kingdom	China	Johnson Matthey	Japan
	Paper# 462	Paper# 5	United Kingdom	Paper# 305
1500	Ethanol dehydration performed by [Al]- and [V,Al]-	A Hydrothermally Stable Mesoporous Zeolite as FCC	Catalytic conversion of HMF to biodiesel: the role	Formation and local structure of framework al lewis
	magadiite catalysts	Catalyst—from Laboratory to Refinery	played by AI, Fe and B incorporate in MFI-framework	sites in *BEA zeolites
	Heloise Oliveira Pastore	Xionghou Gao	Girolamo Giordano	Stepan Sklenak
	University of Campinas	Petrochemical Reseearch Institute, Petrochina Company	Dept Env & Chem Eng - Univ Of Calabria	J. Heyrovsky Institute of Physical Chemistry of The Czech
	Brazil	Limited	Italy	Academy of Sciences
	Paper# 101	China	Paper# 456	Czech Republic
		Paper# 73		Paper# 205
1520	Mechanism of the First C-C Bond Formation in	Zeolitic but Unique Microchannels within Layers of		
	Methanol Conversion over Zeolites	Magadiite, a Natural Layered Silicate		
	Xinqiang Wu	Yusuke Ide		
	Dalian Insititute of Chemical Physics	National Institute for Materials Science (NIMS)		
	China	Japan	KEYNOTE:	KEYNOTE:
	Paper# 448	Paper# 138	Single zeolite crystals with highly ordered	ELECTRONIC DISPROPORTIONATION UPON SORPTION
			intracrystalline hierarchically macro-meso- microporosity for sustainable catalysis	INTO ZEOLITES
1540	Synthesis of Nano-sized, Sheet-like and Hierarchical	Hierarchical IWR Zeolites with House-of-Cards-Like		Karl Seff
	SAPO-34 Zeolites and Their Catalytic Properties for the	Structure Directed by Choline Cation	Bao-Lian Su	University of Hawaii
	Methanol-to-olefin Reactions	Zhendong Wang	University of Namur	United States
	Jiajia Ding	Sinopec Shanghai Research Institute of Petrochemical	Belgium	Paper# 120
	Shanghai Research Institute of Petrochemical	Technology		
	Technology	China		
	China	Paper# 216		
	Paper# 48	·		
1600 – 1620	AFTERNOON TEA			Exhibition, Grand Ballroom



1620 – 1740	2.4.1	2.4.2	2.4.3	2.4.4
	Adsorption and catalysis Sponsored by	Crystalline Porous and Hierarchically structured materials (zeolites, composites, bio-inspired, layered)	Synthesis methods, New Synthetic and Natural Zeolites	Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties)
	BEL MicrotracBEL Corp.			
Chair	Vladimir Zholobenko	Lakshmi Kantam	Alessandro Turrina	Alexander Genest
Room	Crown 3B	Crown 1	Crown 3A	Crown 3C
1620	Pt/UiO-66 Catalysts with Tunable Acidity for Enhancing Chemoselective Cinnamaldehyde Hydrogenation Yan Wang Taiyuan University of Technology China Paper# 537	KEYNOTE: Analysis of pore quality in hierarchical zeolite catalysts	ADOR approach for synthesis of new zeolites by design Michal Mazur Charles University Czech Republic Paper# 114	Quantification of textural properties of hierarchical zeolites Alexander Sachse IC2MP France Paper# 157
1640	HMCM-22 Zeolite with different SiO2/Al2O3: Synthesis and catalytic properties in methane dehydroaromatization Kamal Pant Indian Institute of Technology Delhi, India India	Javier Perez-Ramirez, ETH Zurich, Switzerland	Template-free synthesis of highly dispersed faujasite nanocrystals He Han Dalian University of Techonology China	Theoretical insights into the origin of selectivity in the MTO process catalyzed by small-pore zeolites Mercedes Boronat Instituto De Tecnologia Quimica, Upv-csic Spain
1700	Paper# 256 Separation of low concentration methane from nitrogen using zeolites with a vacuum swing adsorption process	Assembly of sub-crystals in macro-scale and construction of composite building units in micro-scale for SAPO-34	JBW-type zeolite from hydrated silicate ionic liquids Nick Pellens	Paper# 442 Temperature dependence of CO adsorption in H-FER zeolite: combined theoretical and experimental investigation
	Guoping Hu University of Melbourne Australia Paper# 316	Aihua Xing National Institute of Clean-and-low-carbon Energy China Paper# 314	Ku Leuven Belgium Paper# 359	Miroslav Rubes IOCB Czech Republic Paper# 99
1720	Oligomerization of C5 olefins over Nano-Ferrierite Cristina Martinez Sanchez Instituto De Tecnología Química Spain Paper# 485	New approaches to generation of acid sites in mesoporous silicas Maciej Trejda Adam Mickiewicz University Poland Paper# 195	Catalytic upgrade of pyrolysis vapours coupled with gaseous hydrogenation to produce hydrocarbon-rich bio oil Muxina Konarova The University of Queensland Australia	Effect of Pore Topology on Water Adsorption in Zeolites: Computer Simulation Studies Robert Bell University College London United Kingdom Paper# 414
1730 – 1830	Poster Presentations		Paper# 631	Exhibition, Grand Ballroom

0730 – 1730	REGISTRATION DESK OPEN				Grand Ballroom Foyer
0800 – 0830	ARRIVAL TEA AND COFFEE				Exhibition, Grand Ballroon
0800 – 1830	EXHIBITION OPEN				Exhibition, Grand Ballroon
0830 – 0930	PLENARY SESSION 2 Chair: Michael Stockenhuber				Crown 1
0840 – 0930	PLENARY PRESENTATION: Hard Templating: 2 Ferdi Schuth, Max-Planck-Institut für Kohlenfo	Zeolites, Mesoporous Materials and Complex orschung, Germany	Composites		
0930 – 0940	Movement to Concurrent Sessions				
0940 – 1040	3.1.1 Adsorption and catalysis Sponsored by BEL MicrotracBEL Corp.	3.1.2 Porous polymers (MOFS and COFS)	3.1.3 New concepts in shape-selectivity (chemicals, fine chemicals and pharmaceuticals)	3.1.4 Adsorption, Separation and Diffusion (fundamentals, membranes, process intensification)	3.1.5 Industrial Session 1
Chair	Valdimir Zholobenko	Tina Düren	George Zhao	Antonio Araujo	Nikolai Nesterenko
Room	Crown 3C	Crown 1	Crown 3A	Crown 3B	M1
0940	Cu (II) Superoxo Species in SAPO-34 Zeolite and Their Catalytic Oxidation Performance Haijun Chen Nankai University China Paper# 552	A Facile Synthesis Route for High Porosity MOF Aerogels King Lun Yeung The Hong Kong University of Science and Technology Hong Kong Paper# 421	Operando ftir study on the oxidation of functionalised olefins over TS-1 using hydrogen peroxide Luke Harvey The University of Newcastle Australia Paper# 0	Sustainable low-cost synthesis of zeolites from mining tailings for heavy metal adsorption Hong Peng The University of Queensland Australia Paper# 139	Synthesis of template free high silica Nan Fau-Y for catalytic cracking applications Hanin Radman Adnoc Refining United Arab Emirates Paper# 238
1020	The effect of trivalent framework heteroatoms in Cu-CHA on the Selective Catalytic Reduction of NO Dirk De Vos Kuleuven Belgium Paper# 487 Hydrogen Supply/Storage through the Decomposition/Production of Formic Acid	Metal-Organic Frameworks for Bioactive Peptide Separation Huanting Wang Monash University Australia Paper# 341 Porous Aromatic Frameworks (PAFs) Guangshan Zhu	Selectivity by confinement within the pores and in the structured external surface of zeolites. Mercedes Boronat Instituto De Tecnología Química, Universitat Politècnica De València-consejo Superior De Investigaciones Científicas Spain Paper# 531 Modulating the distribution of Brønsted acid site for DME carbonylation over	Adsorption of toluene in mfi: flexibile zeolite in monte carlo simulations Sebastian Caro-Ortiz TU Delft Netherlands Paper# 406 Large-grain, oriented, and thin zeolite MFI membranes fabricated from directly-synthesized nanosheets and their	KEYNOTE: Recent Advances of Industrial Zeolites fo Emission Control Applications Hong-Xin Li Zeolyst international United States

	Shinya Masuda	China	Tianjin University	Michael Tsapatsis	
	Osaka University	Paper# 60	China	University of Minnesota	
	Japan		Paper# 102	United States	
	Paper# 219			Paper# 475	
1040 – 1110	MORNING TEA				Exhibition, Grand Ballroom
1110 – 1250	3.2.1	3.2.2	3.2.3	3.2.4	3.2.5
	Adsorption and catalysis Sponsored by BEL MicrotracBEL Corp.	Porous polymers (MOFS and COFS)	New concepts in shape-selectivity (chemicals, fine chemicals and pharmaceuticals)	Adsorption, Separation and Diffusion (fundamentals, membranes, process intensification)	Industrial Session 1
Chair	Jun Huang	Shaobin Wang	Muxina Konarova	Moses Tade	Michael Stockenhuber
Room	Crown 3C	Crown 1	Crown 3A	Crown 3B	M1
1110	KEYNOTE Enantiomeric Separations and Catalysis with Chiral Molecular Sieves Mark Davis California Institute of Techology United States	Ni-Deposited MOF as the Photocatalyst for H2O2 Production Hiromi Yamashita Osaka University Japan Paper# 343 Design Synthesis of Nanoscale UIO-66 and its appilcation Xinwen Guo Dalian University of Technology China Paper# 250	Identification and regulation of active sites on nanodiamonds: Establishing a highly efficient catalytic system for oxidation of organic contaminants Zhong Ren Nanchang Hangkong University China Paper# 606 Pd Nanoparticles Immobilized on MIL- 53(AI) as Effective Bifunctional Catalysts for Catalytic Conversion Liquid Methanol One-Step to Methyl Formate Shengfu Ji Beijing University of Chemical Technology China Paper# 18	Fabrication of Twin-Free, Highly Oriented and Sub-Micrometer-Thick Molecular Sieve Membranes with Superior Gas selectivity Yi Liu Dalian University of Technology China Paper# 15 Hierarchically Porous Carbons for Catalytic Oxidation: The Synergetic Enhancement by Nitrogen Doping and Structural Defects Wenchao Peng Tianjin University China Paper# 57	KEYNOTE: The Synthesis, Structure, and Catalytic Performance of the 11 ring Zeolite EMM 17 Simon Weston Exxon Mobil United States Paper# 430
1150	Hydrothermal Stable Subnanometric NiPt Clusters Encapsulated within Silicalite-1 for n-Dodecane Steam Reforming Bofeng Zhang	INVITED: Green Synthesis of Zeolites and Examples for Their Industrially Sustainable Production	THE ISOPROPYLATION OF NAPHTHALENE OVER BEA ZEOLITES Stalin Joseph The University of Newcastle	Monitoring Mass Transfer in Nanoporous Materials: Impact on Separation and Catalysis Jörg Kärger	Nanosheet Morphology Of Aei Type Zeolii Made Using Morpholinium-Based Structure Directing Agent ROGER MOULTON
	Tianjin University	Feng-Shou Xiao	Australia	Leipzig University	Sachem, Inc.
	China	Zhejiang University		Germany	United States

	Paper# 389	China	Paper# 349	Paper# 87	Paper# 541
1210	Multi-ammonium surfactant-directed mesoporous zeolites for supporting high performance metal catalyst Jaeheon Kim Ibs South Korea Paper# 415	Systematic Functionalization of Isoreticular Zeolite-like Supramolecular Assemblies (ZSAs) and Application in Gas Adsorption and Separation Yunling Liu Jilin University China Paper# 277 Knoevenagel catalysis by ordered	Sinter-Resistant Metal Nanoparticle Catalysts Achieved by Immobilization within Zeolite Crystals via Seed-Directed Growth Liang Wang Zhejiang University China Paper# 3	Identification and fabrication of specific chemical speciation as active sites in Y zeolites and application in selective adsorption desulfurization and catalytic reaction Yun Zu Liaoning Shihua University China Paper# 170	INVITED: Hydrocarbon Structure Selectivity in Zeolites and Their Application in Refining Processes Xiangcheng Fang Sinopec China The Complex Zeolite UZM-55 Containing
1230	Preparation of NI nanoparticles encapsulated in silicalite-1 zeolite to suppress coke formation during dry reforming of methane Hiroyasu Fujitsuka Tokyo Institute of Technology Japan Paper# 368	mesoporous carbon nitride from 5- Amino-1h-Tetrazole Sujanya Jesus Maria Ruban The University of Newcastle Australia Paper# 348	Control of Ti distribution in the zeolite framework and its impact on the catalytic properties Toshiyuki Yokoi Tokyo Institute of Technology Japan Paper# 423		10- and 12-Membered Rings in the Same One-Dimensional Channel Christopher Nicholas Honeywell UOP United States Paper# 115
1250 - 1400	LUNCH				Exhibition, Grand Ballroom
1400 – 1600	3.3.1 Adsorption and catalysis Sponsored by BEL MicrotracBEL Corp.	3.3.2 Porous polymers (MOFS and COFS)	3.3.3 New concepts in shape-selectivity (chemicals, fine chemicals and pharmaceuticals)	3.3.4 Adsorption, Separation and Diffusion (fundamentals, membranes, process intensification)	
Chair	Hongqi Sun	Bao-Lian Su	Muxina Konarova	Moses Tade	
Room	Crown 3C	Crown 1	Crown 3A	Crown 3B	
1400	Low-temperature synthesis of alpha- alumina nanosheets on microfibrous- structured Al-fibers for Pd-catalyzed CO oxidative coupling to dimethyl oxalate Chunzheng Wang China University Of Petroleum (east China) China Paper# 172	KEYNOTE: Carbon-based catalytic materials for energy conversion Jiesheng Chen	Hydrocarbon Pool Mechanism of Methane Dehydroaromatization Over Mo/Zeolite Catalysts Nikolay Kosinov Eindhoven University of Technology Netherlands Paper# 63	Mixed matrix membranes consisting of nanosized sodalite crystals for H2/N2 separation Ge Yang China University of Petroleum (east China) China Paper# 121	



				1	
1420	Yolk-shell Nanostructured Aminopolymer— silica composite Encapsulating Pd Nanoparticles for Selective Hydrogenation of Alkynes Yasutaka Kuwahara Osaka University Japan Paper# 200		Enhancing propane aromatization performance of Zn/H-ZSM-5 zeolite catalyst with Pt promotion: effect of the third metal additive Sn or Fe Jiaxu Liu Dalian University of Technology Paper# 239	Pore Entrance Kinetics in Binary Xylene Mixtures: Impeding p-Xylene Transport in MFI Type Zeolites Martin Baumgärtl Technische Universität München Germany Paper# 403	
1440	Brønsted Acid Adjustable Metal-Organic Frameworks Act as Bifunctional Catalysts Proved by Fixed-Bed Ethanol Reaction Zheng Ming Dalian Institute of Chemical Physics, Chinese Academy of Sciences China Paper# 156	Synthesis of porous coordination polymers from structured and functionalized ionic liquid media Martin Hartmann FAU Erlangen-Nürnberg Germany Paper# 379	Improvement of HZSM-5 Catalyst Life by Adjusting Si/Al Ratio and Mesoporosity for Catalytic Cracking of exo- tetrahydrodicyclopentadiene Tae Ho Lee Korea University Korea Paper# 153	A solid-state NMR spectroscopy investigation of flexibility in zeolites Suzi Pugh University of St Andrews United Kingdom Paper# 595	
1500	One-pot co-crystallization of beta and ZSM-5 nanozeolites for the direct conversion of a heavy reformate fraction into xylenes Cristina Martínez Instituto De Tecnología Química, UPV-CSIC Spain Paper# 435	Highly efficient catalyst for room- temperature oxidation desulfurization: H3PW12O40/UiO-66(Zr) prepared by a facile method Yinyong Sun Hit China Paper# 411	KEYNOTE: Beta-Zeolite an efficient and eco-friendly catalyst for the nitration and acylation of aromatic compounds Lakshmi Kantam	Solvent Effects on Acid-Base Interactions in Zeolites Robert Rioux Pennsylvania State University United States Paper# 494	
1520	Structural design for Ni-SAPO-11 hydroisomerization catalyst Yuchao Lyu China University of Petroleum China Paper# 289	Tuning the structure of zeolitic imidazolate frameworks for enhanced photocatalytic C-H activation Cameron Ross University of Southampton / ICES A*STAR Singapore Paper# 94	Institute of Chemical Technology India	Enhanced Copper Sorption of Chemically Modified and Gamma-irradiated Philippine Natural Zeolite (PNZ) Eleanor Olegario University of the Phillipines Paper# 650	
1540	New ways of preparing highly stable Nickel-Oxide catalysts with organized porosities for the reforming of methane with carbon dioxide.				



	T	T	T			
	Julien Reboul					
	CNRS					
	France					
	Paper# 604					
1600 – 1620	AFTERNOON TEA					
1620 – 1740	3.4.1	3.4.2	3.4.3	3.4.4		
	Adsorption and catalysis	Porous polymers (MOFS and COFS)	New concepts in shape-selectivity	Adsorption, Separation and Diffusion		
	Sponsored by		(chemicals, fine chemicals and	(fundamentals, membranes, process		
	BEL		pharmaceuticals)	intensification)		
	MicrotracBEL Corp.					
Chair	Hongqi Sun	Xiaolei Fan	Pegie Cool	Hiromi Yamashita		
Room	Crown 3C	Crown 1	Crown 3A	Crown 3B		
1620	Achieving a Super-long Lifetime in the		Highly Selective Au-Pt Bimetallic	Grafting of Bipyridine-proline into the Zn-		
	Zeolite-catalyzed MTO Reaction under		Nanoparticles Supported on Foam-like	Modified Mesoporous BMMs and its		
	High Pressure: Synergistic Effect of Hydrogen and Water		Mesoporous Silica for Benzyl Alcohol Oxidation	application for Asymmetric Aldol Reaction		
	Peng Tian		Pingping Wu	Guang Peng Xu		
	Dalian Institute of Chemical Physics		China University of Petroleum (East China)	Beijing University of Technology		
		KEYNOTE:		China		
	China		China	Paper# 45		
	Paper# 492	Editing Functionality into Covalent Organic Frameworks	Paper# 214			
		Wei Wang				
		Lanzhou University				
1640	Particularities of Adsorption and Diffusion	China	Improvement of the Effective Diffusivity of	Suitable pore size distribution theory and		
	in Zeolite Membranes for Efficient Seawater Desalination	G.m.u	a Shaped Zeolite	adsorption experimentation - N2 or Ar gas probe, NLDFT or GCMC kernel		
	Xiaoqin Zou		Rogéria Bingre	Kazuyuki Nakai		
	-		Icpees - Université De Strasbourg	·		
	Northeast Normal University		France	Microtracbel Corp		
	China		Paper# 159	Japan		
	Paper# 500		. upc.// 100	Paper# 144		
1700	The use of silver zeolites for conferring	Acid Gas Stability and Selectivity of Rare	The cooperativity of Brønsted and Lewis	Framework Mobility in MIL-101 and MIL-		
	biocidal properties to polymeric materials.	Earth MOFs	acid sites on zeolite for glycerol	53 Investigated by 2H solid-state NMR		
	Eduardo Palomares	Tina Nenoff	dehydration	Alexander Stepanov		
	Instituto Tecnologia Quimica (upv-csic)	Sandia National Laboratories	Zichun Wang	Boreskov Institute of Catalysis SB RAS		
	Spain	United States	Macquarie University	Russian Federation		
	Paper# 542	Paper# 629	Australia	Paper# 300		
	.,			,		

			Paper# 208	
1720	The Low-cost Preparation of Mesoporous USY Zeolite and its Potential as Industrial FCC Catalyst Material Baojian Shen China University of Petroleum	Transition metal complexes modified N- heterocyclic MOF/COF materials: single- site heterogeneous catalysts for liquid phase oxidation Ying-Ya Liu	Paper# 208 Application of Bi-functional Ni/HZSM-5 Catalyst for Vapor-phase Hydrogenation of Levulinic Acid to γ-valerolactone Nataša Novak Tušar	Kinetic evaluation of dehydrated bi- metallic AgaM96-a LSX (M=Na+, Li+) zeolites and its influence on adsorption of N2 and O2 Hamida Panezai
	China Paper# 135	Dalian University of Technology China Paper# 229	National Institute of Chemsitry Slovenia Paper# 434	Sardar Bahadur Khan Women's University, Quetta Pakistan Paper# 301 Electrochemical synthesis of metal organic frameworks on thin film electrodes Muhammad Azhar Curtin University Australia Paper# 361
1730 – 1830	Poster Presentations			Exhibition, Grand Ballroom



0800 - 1300	REGISTRATION DESK OPEN Grand Ballroom Foyer					
0830 - 0930	PLENARY SESSION 3 Chair: Moses Tade					
0840 - 0930	PLENARY PRESENTATION: Recent Advances in Petrochi Jeffrey Bricker, UOP – Honeywell, <i>United States</i>	emical Zeolite Catalysis				
0930 – 0940	Movement to Concurrent Sessions					
0940 - 1040	4.1.1	4.1.2	4.1.3	4.1.4		
	Refining (heavy oils, shale oils, tar sands, biomass)	Adsorption and Catalysis Sponsored by BEL MicrotracBEL Corp.	Industrial Session 2	Adsorption, Separation & Diffusion (fundamentals, membranes, process intensification)		
Chair	. Girolamo Giordano	Thomas Maschmeyer	Ajayan Vinu			
Room	Crown 3A	Crown 3B	Crown 1	Crown 3C		
0940	Preparation and Characterization of Zeolite Y Advantageous to Polycyclic aromatic hydrocarbons Conversion Chang Liu Dalian(fushun) Research Institute Of Petroleum And Petrochemicals, Sinopec China Paper# 304	Improving the efficiency of biomass catalytic pyrolysis by tailoring the physicochemical properties of technical ZSM-5 based catalysts Héctor Hernando Marcos Universidad Rey Juan Carlos Paper# 512	Understanding bimetallic synergy in extruded nanoparticles for industrial oxidation reactions Panashe Mhembere University of Southampton United Kingdom Paper# 262	Fly ash zeolite X for CO2 capture Yuri Kalvachev Institute of Catalysis, Bulgarian Academy of Sciences Bulgaria Paper# 547		
1000	Hydrodeoxygenation of Phenolic Compounds to Cycloalkanes over HZSM-5 Supported Nickel Phosphides Anjie Wang Dalian University of Technology Paper# 225	Facile synthesis of fluorescent polycyclic aromatic hydrocarbons in calcium ion exchanged-lta zeolite Seung Hyeon Ko Institute for Basic Science South Korea Paper# 382	Finding Catalytic Applications of Zeolites Using n- Decane Hydrocracking-Hydroisomerization as a Catalytic Test Reaction C. Y. Chen Chevron Energy Technology Company United States Paper# 375	INVITED: Selectivity Engineering in Synthesis of Chemicals and Materials using Novel Catalysts Ganapati Yadav		
1020	Oxidative Dehydrogenation of Ethane with Carbon Dioxide over Selected Metal-Impregnated Zeolite Catalysts Annelies De Cuyper Kaiserslautern University Of Technology Germany Paper# 327	Experimental Investigation of MTO Reaction over ZSM-5 via Isotopic Transient Analysis Takahiko Moteki The University of Tokyo Japan Paper# 249	Combined Alkali-Organoammonium Structure Direction of High Charge Density MeAPO and SAPO Molecular Sieves: The Missing Link Gregory Lewis Honeywell Uop United States Paper# 409	Remarkably enhanced industrially relevant acid- and redox-catalysed processes using Al-rich beta zeolites Petr Sazama J. Heyrovský Institute of Physical Chemistry of the CAS Czech Republic Paper# 373		



040 – 1110	MORNING TEA Exhibition, Grand Ballroom					
110 – 1250	4.2.1	4.2.2	4.2.3	4.2.4		
	Refining (heavy oils, shale oils, tar sands, biomass)	Energy conversion and storage (photocatalysis, batteries, thermochemical)	Industrial Session 2	Adsorption, Separation & Diffusion (fundamentals membranes, process intensification)		
Chair	Michael Stockenhuber	George Zhao	Ajayan Vinu	Shaobin Wang		
Room	Crown 3A	Crown 3B	Crown 1	Crown 3C		
1110	Influence of support identity of Ru-based catalysts on the catalytic performance for the hydrodeoxygenation of guaiacol and biocrude oil		Characterization of phosphorus-containing ZSM-5 materials: hydrothermal synthesis vs. wetness impregnation	Clustering of acidic and non-acidic oh groups in zeolites – addressing recent doubts as to the existence of silanol nests		
	Penghui Yan		Ming-Feng Hsieh	Hubert Koller		
	The University of Newcastle		Johnson Matthey	University of Muenster		
	Australia	KEYNOTE:	United Kingdom	Germany		
	Paper# 528	Opportunities for zeolites in the methane challenge	Paper# 481	Paper# 540		
		Nikolaï Nesterenko				
1130	Study of crude oils by use of fast fluidised bed reactor: Unlock the value creation for light olefins production by disruptive technique	Total <i>Belgium</i>	Recent chevron discoveries in small pore zeolites for petrochemical and separations applications Dan Xie	ELECTRONIC DISPROPORTIONATION UPON SORPTION INTO ZEOLITES Karl Seff		
	Gnana Pragasam Singaravel					
	ADNOC Refining		Chevron Energy Technology Co. United States	University of Hawaii United States		
	United Arab Emirates		Paper# 294	Paper# 120		
	Paper# 12		Fuper# 294	Fuper# 120		
1150	Catalytic cracking of polyethylene over hierarchical ZSM-5 zeolites Karolina Tarach Jagiellonian University	Achieving a Super-long Lifetime in the Zeolite-catalyzed MTO Reaction under High Pressure: Synergistic Effect of Hydrogen and Water Peng Tian Dalian Institute of Chemical Physics	Establishing Structure-Activity Relationships for Direct Methane to Methanol over Cu-Exchanged Zeolites Pablo Beato Haldor Topsoe As	Transition metal cation-exchanged SSZ-13 zeolites CO2 capture and separation from N2 Jin Shang City University of Hong Kong		
	Poland	China	Denmark	Hong Kong		
	Paper# 461	Paper# 497	Paper# 383	Paper# 291		
		ι άρειπ 451	Fupe1# 363			
1210	Recent Advances in Thermo-Chemical Conversion of Biomass using Porous Materials	Unrevealing the synergic site in metal modified ZSM- 5 zeolite by solid state NMR spectroscopy	High throughput testing of catalysts with fast deactivation for Methanol-to-Hydrocarbons (MTH)	Solvent-free Secondary Growth of Oriented MFI-t Zeolite Films from Anhydrous Raw Solids		
	Michael Wilhelm Stöcker	Jun Xu	Marius Kirchmann	Zhengbao Wang		
	SINTEF Industry	Wuhan institute of physics and mathematics, CAS	hte Gmbh	Zhejiang University		
	Norway	China	Germany	China		
	Paper# 7	Paper# 404	Paper# 410	Paper# 19		

PROGRAM: Wednesday 10 July 2019

1300	Cultural Excursion Please make your way at the conclusion of the session to	in the coach pick up zone on the lower lobby of Crown Towers. Coaches will depart promptly	no later than 1315.
1230	Cracking performance of light diesel over hierarchical zeolite Y Zhihong Gao Taiyuan University of Technology China Paper# 315	Post modified USY in hydrocracking service Omer Refa Koseoglu Saudi Aramco Saudi Arabia	N-dodecane Hydroisomerization over ZSM-22: Controllable Microporous Acidity Distribution and Shape-Selectivity Wang Xiangyu Tianjin University China Paper# 630



Т						
0800 – 1730	REGISTRATION DESK OPEN			Grand Ballroom Fo		
0800 – 0830	ARRIVAL TEA AND COFFEE			Exhibition, Grand Ballroo		
0800 – 1630	EXHIBITION OPEN			Exhibition, Grand Ballro		
9830 — 0930	PLENARY SESSION 4			Crowi		
	Chair: Thomas Maschmeyer					
840 – 0930	PLENARY PRESENTATION – Synthesis: zeolites by design: did we really achieve it?					
	Johan Martens, University of Leuven, Belgium					
930 – 0940	Movement to Concurrent Sessions					
940 – 1040	5.1.1	5.1.2	5.1.3	5.1.4		
	Energy conversion and storage (photocatalysis, batteries, thermochemical)	Crystalline Porous and Hierarchically structured materials (zeolites, composites, bio-inspired, layered)	Synthesis methods, New Synthetic and Natural Zeolites	In-situ/operando spectroscopy of working poro solids		
Chair		Xinmei Liu	Mark Davis	Antonio Arujo		
Room	Crown 3A	Crown 1	Crown 3B	Crown 3C		
0940	Graphene-dots / Metal-nanosponge Composite Catalysts for High-Performance Hydrogen Evolution Reaction Ho-Suk Choi Chungnam National University South Korea Paper# 396	The framework defects – an efficient tool to engineer hierarchical zeolites Zhengxing Qin China University of Petroleum China Paper# 240	Formation and Interconversion of Porous Scaffolds with Bicontinuous Structures Lu Han Tongji University China Paper# 598	Proton mobility and acid site location in zeolite: catalytically relevant conditions Pit Losch Max-Planck-Institut Für Kohlenforschung Germany Paper# 177		
1000	Direct CO2 Hydrogenation into Value-added C2+ Hydrocarbons over Oxide/Zeolite Bifunctional Catalysts Peng Gao Shanghai Advanced Research Institute, Chinese Academy Of Sciences China Paper# 4	Hierarchical MFI Type Materials with Intracrystalline Macropores: Syntheses Characterization and Catalytic Application Wilhelm Schwieger University of Erlangen-nuremberg, Germany Germany Paper# 449	Facile preparation of b-oriented MFI zeolite nanosheet Ying Ji Dalian University of Technology China Paper# 97	INVITED: Themal Analysis Applied For Degradation Of Petroleum Residues Using Zeolites And Micro Mesoporous Materials Antonio Arujo Federal University of Rio Grande Do Norte Brazil		
1020	·	Hierarchical ZSM-5 with leafy morphology obtained by dual-template method Vesna Rakic University of Belgrade, Faculty Of Agriculture Serbia	Synthesis of Zinco(alumino)silicate Zeolites with Various Topologies toward High Ion-Exchange Capability for Multivalent Cations Kenta lyoki The University of Tokyo Japan	Structural Determination of Nanoporous Materi by Rotation Electron Diffraction Zhehao Huang Stockholm University Sweden		



		Paper# 267	Paper# 154	Paper# 264
1040 – 1110	MORNING TEA			Exhibition, Grand Ballroom
1110 – 1230	IZA General Assembly			Crown 1
1230 – 1400	LUNCH			Exhibition, Grand Ballroom
1400 – 1600	5.3.1	5.3.2	5.3.3	5.3.4
	Energy conversion and storage (photocatalysis, batteries, thermochemical)	Crystalline Porous and Hierarchically structured materials (zeolites, composites, bio-inspired, layered)	Synthesis methods, New Synthetic and Natural Zeolites	In-situ/operando spectroscopy of working porous solids
Chair	Muhammad Azhar		Fernando Rey	Jun Huang
Room	Crown 3A	Crown 1	Crown 3B	Crown 3C
1420	Highly dispersed Sub-nanometer Silver Clusters in FAU Cages Exhibiting High Photocatalytic Activity Under Visible Light Mohamad El-Roz Normandie Univ, Ensicaen, Unicaen, Cnrs, Laboratoire Catalyse Et Spectrochimie France Paper# 175 Understanding the role of titanium in catalytic oxidation of VAM over Pd/TS-1 and Pd/Silicate-1 Matthew Drewery University of Newcastle Australia	Multimodal zeolite catalysts with hierarchically micro-meso-macroporous structure Li-Hua ChenShen Yu Wuhan University of Technology China Paper# 506 Sustainable Synthesis of Zeolites and Design of Sinter-Resistant Metal Nanoparticles by Zeolite Fixing Feng-shou Xiao Zhejiang University 中国	First Preparation of Microporous AFY-type MeAPO by Topotactic Pillaring of Lamellar Aluminophosphate Precursor Kazuyuki Maeda Tokyo University of Agriculture and Technology Japan Paper# 201 Improving the MTO performance by controlling the Al distribution within Nanosized CHA-Type catalysts Manuel Moliner Instituto Tecnologia Quimica, Upv-csic Spain	KEYNOTE: Combining different techniques in the structure analysis of zeolitic materials Lynne McCusker ETH Zurich Switzerland
1440	INVITED: The design of nanoporous (photo)catalysts for environmental applications	Paper# 9 The Role of Zeolitic Acidity in TCE Destructive Oxidation over Ce-Modified Zeolite Bea Kinga Gołąbek	Paper# 391 Continuous Flow Synthesis of Zeolites: Recent Progresses and Future Perspectives Zhendong Liu	Structural analysis of zeolites in atomic scale with aberration corrected S/TEM Kaname Yoshida
	Pegie Cool	Jagiellonian University	The University of Tokyo	Japan Fine Ceramics Center
	University of Antwerp	Poland	Japan	Japan
	Belgium	Paper# 357	Paper# 293	Paper# 125
1500	Insights into Methane Dehydro-Aromatization from Photon Ionization Mass Spectrometry	Bi-functional Cationic Polymeric Template Assisted Synthesis of Hierarchical Zeolite-Y for CO ₂ Capture	First Organic Structure-Directing Agents Based on Arsenic Cation: A Versatile Probe for Mechanism	Local order, intermolecular interactions and properties of zeolites: the Organic Structure Directing Agent point of view



1520	Hao Ma Shanghai Jiao Tong University China Paper# 599 Plasmon-Driven Catalysis on Single Hierarchical Metal Nanostructures Ping Xu	Balasubramanian V.Vaithilingam Adnoc Refining United Arab Emirates Paper# 380 INVITED: The Art of Inducing Hierarchal Porosity In Zeolitic Materials: Controlled Crystallization-Supported Self-	Insight of the Crystallization Process in the Growth of Zeolite Structure. Fernando Rey Instituto De Tecnologia Quimica Spain Paper# 590 A New Microwave Method for Preparing Hierarchical Zeolites with High Mesoporosity Xiaolei Fan	Bruno Alonso CNRS France Paper# 376 Effect of Macro templating on the titanium sites in microporous titanosilicate TS-1 Catalyst Gopinathan Sankar
	Harbin Institute of Technology China Paper# 130	Assembly Parasuraman Selvam Indian Institute of Technology-Madras India	The University of Manchester United Kingdom Paper# 56	University College London United Kingdom Paper# 385
1540	Applications of zeolite β-templated carbon for supercapacitor devices Massimo Migliori University of Calabria Italy Paper# 450	Controlling of acidity and diffusion of SAPO-34 and its improved performance for methanol to olefins reaction Aihua Xing National Institute of Clean-and-low-carbon Energy China Paper# 308	Efficiency of Al substitution in Fe- and Mn- impregnated fly-ash-derived SBA-15 mesoporous molecular sieves to promote N2 selectivity in low- temperature NH3-SCR Ge Li National Institute of Clean-and-low-carbon Energy China Paper# 524	Microsecond time-resolved in situ/operando spectroscopy of working zeolites thanks to a new quantum cascade laser – FT-IR combined spectrometer Josefine Schnee Laboratoire Catalyse et Spectrochimie-Ensicaen-CNRS France Paper# 605
1600 – 1620	AFTERNOON TEA			Exhibition, Grand Ballroom
1620 – 1740	5.4.1 Energy conversion and storage (photocatalysis, batteries, thermochemical)	5.4.2 Crystalline Porous and Hierarchically structured materials (zeolites, composites, bio-inspired, layered)	5.4.3 Synthesis methods, New Synthetic and Natural Zeolites	5.4.4 In-situ/operando spectroscopy of working porous solids
Chair		Jean-Pierre Gilson	Muhammad Azhar	Michael Stockenhuber
Room	Crown 3A	Crown 1	Crown 3B	Crown 3C
1620	Zeolite Y as the water adsorbent for mobile sorption heat storage Alenka Ristić National Institute of Chemistry Slovenia Paper# 268	KEYNOTE: Hierarchical Zeolites as Catalysts: Synthesis, Structure and Reactivity Chris Jones Georgia Institute of Technology United States	Mastering of Zr-sites in BEA catalyst towards the improvement of its acidity and catalytic performance Irina Ivanova M.V.Lomonosov Moscow State University Russian Federation Paper# 613	Redox mechanism of heterogeneous Wacker oxidation over Pd-Cu-exchanged zeolite Y Jerick Imbao Eth Zurich / Paul Scherrer Institute Switzerland Paper# 472



1640	Rohit Kumar Indian Institute of Technology Delhi, India India Paper# 371		Stepwise Gel Preparation for High-Quality Small-Pore Zeolite Synthesis; A Common Tool for Synthesis Diversification Nao Tsunoji Hiroshima University Japan Paper# 106	Advanced Electron Diffraction Techniques for Structure Elucidation and Discovery of Novel Porous Materials Xiaodong Zou Stockholm University Sweden Paper# 589
1700	High Pressure Intrusion of Aqueous Salt Solutions in Silicalite-1 for Mechanical Energy Absorption and Storage: Influence of Salt Nature Andrey Ryzhikov Institut De Science Des Matériaux De Mulhouse (IS2M) France Paper# 431	Rice husk ash derived nanoscale ZSM-5 for highly efficient removal of a toxic textile dye Sujit Sen National Institute of Technology Rourkela India Paper# 574	Synthesis and Acid Properties of the Phosphorus-Modified Small and Medium Pore Zeolite ITQ-52 Raquel Simancas Tokyo Institute of Technology Japan Paper# 344	Reaction and Deactivation Mechanism Insights into Catalytic Conversion of Ethanol to Butadiene over Bifunctional Zn-Y/Beta Zeolite Tingting Yan Nankai University China Paper# 14
1720	Zeolite Encapsulated Nickel Nanoparticles and their Catalytic Activity for CO2 Methanation Jerrik Mielby Technical University of Denmark Denmark Paper# 459	The role of mesoporosity and acid site speciation of hierarchical y zeolite in low polyethylene (Idpe) cracking Jim Mensah The University of Newcastle Australia Paper# 628	The synthesis of small particle sized SAPO-34 for the reaction of Methanol to Olefins Zhibin Li Heilongjiang University China Paper# 58	Real-Time IR Spectroscopy Describes Brønsted Site – Ethanol Molecule Interaction: Rapid Scan IR Measurements and 2D COS Analysis Kinga Góra-Marek Jagiellonian University Paland Paper# 257
1830 – 2300	IZC'19 GALA DINNER Coaches will depart from the coach pick up zone located	on the lower lobby of Crown Towers at 1830		State Reception Centre, Kings Park

0830 - 1300	REGISTRATION DESK OPEN Grand Ballroom Foyer			
0830 - 0900	ARRIVAL TEA AND COFFEE Exhibition, Grand Ballroom			
0830 - 1130	EXHIBITION OPEN Exhibition, Grand Ballroom			
0900 - 0950	O950 PLENARY SESSION 5			
	Chair: Shaobin Wang			
0900 – 0950	PLENARY PRESENTATION: Selectivity control of syngas conversion by bifunctional OX-ZEO catalyst conc			
	Xiulian Pan, Chinese Academy of Sciences, China			
0950 – 1000	Movement to Concurrent Sessions			
1000 – 1100	6.1.1	6.1.2	6.1.3	6.1.4
	Characterisation	Catalysis and characterisation	Porous polymers (MOFS and COFS)	New Synthetic and Natural Zeolites
Chair	Thomas Maschmeyer	Michael Stockenhuber	Martin Hartmann	Muhammad Azhar
Room	Crown 3A	Crown 1	Crown 3B	Crown 3C
1000	NMR Crystallography to Resolve Structure, Host- Guest and Guest-Guest Interactions in Zeolites	Aromaticity Loss of Xylenes Upon Their Adsorption in 10-Ring Zeolites	Potential of MIL-160(AI) for water generation Márcia Silva	Syntheses of SCM-10 and SCM-14 zeolites using pyridine derivatives as Structure-directing agents
	Eric Breynaert	Kinga Góra-Marek	Associate Laboratory Lsre-lcm	Zhendong Wang
	KU Leuven - COK-KAT	Jagiellonian University	Portugal	Sinopec Shanghai Research Institute of Petrochemical Technology
	Belgium	Poland	Paper# 447	China
	Paper# 477	Paper# 258		Paper# 424
1020	Selective oxidation of methane to methanol by Fe- and Cu-exchanged zeolites: a spectroscopic investigation	Design of supported noble metal catalyst with a core- shell structure for enhancing hydrogenation performance	Engineering efficiency into a modulated MoF-catalyst for enhanced CO2 utilisation leading to sustainable polymer synthesis	
	Dieter Plessers	Ningyue Lu	Daniel Stewart	
	KU Leuven	Taiyuan University of Technology	University Of Southampton	
	Belgium	China	United Kingdom	KEYNOTE:
	Paper# 204	Paper# 302	Paper# 255	Multiscale Aspects of Zeolite Crystal Engineering
1040	Understanding the Structural Evolution of Amorphous Precursor for *BEA Zeolite around Organic Structure-Directing Agent by Combining X- ray and Neutron Total Scatterings Hiroki Yamada	STUDY OF EMBRYOS OF LTA ZEOLITE AS A BASIC CATALYST IN KNOEVENAGEL CONDENSATION João Guilherme Pereira Vicente University Center Facens	One-step Controllable Synthesis of Organic-inorganic Hybrid Zeolite with Exceptional Hydrophobicity to Accelerate the Interfacial Reaction at Low Temperature Dan Zhou	Jean Pierre Gilson Ensicaen France
	National Institute of Advanced Industrial Science and Technology	Brazil Paper# 47	Hubei University <i>China</i>	
	Paper# 640		Paper# 22	

1100-1130	MORNING TEA			Exhibition, Grand Ballroom
1130 – 1230	6.2.1	6.2.2	6.2.3	6.2.4
	Characterisation	Catalysis and characterisation	Porous polymers (MOFS and COFS)	New Synthetic and Natural Zeolites
Chair	Xiaodong Zou		Martin Hartmann	Suk Bong
Room	Crown 3A	Crown 1	Crown 3B	Crown 3C
1130	Database of zeolite structures: Guide and future projects Christian Baerlocher ETH Zurich Switzerland Paper# 78	Pore selectivity and electron transfers in HZSM-5 single crystals: A Raman microspectroscopy mapping and confocal fluorescence imaging combined study Alain Moissette University of Lille France Paper# 155	KEYNOTE: Porous Metal-Azolate Frameworks for Gaseous Olefin Separation	Synthesis of a new zeolite, ITQ-66 Fernando Rey Instituto De Tecnologia Quimica Spain Paper# 596
1150	Synergy mechanism and deactivation behavior of dimethyl ether carbonylation over Cu/H-MOR: theoretical, spectroscopic and kinetic investigation Shouying Huang Tianjin University China Paper# 400	Elucidation of Brøsnted and Lewis sites influence on electron transfers in structured MFI-type zeolites Matthieu Hureau Lasir - Fst- University Of Lille France Paper# 328	Xiao-Ming Chen Sun Yat-Sen University China	Synthesis of the two-dimensional zeolite PST-9 and its structural evolution Juna Bae POSTECH South Korea Paper# 81
1210	Structural Characterizations of Zeolites by PXRD and Electron Crystallography Peng Guo Dalian Institute of Chemical Physics, Chinese Academy of Science China Paper# 53		Scalable Synthesis of VN Quantum Dots Encapsulated in Ultralarge Pillared N-Doped Mesoporous Carbon Microsheets for Superior Potassium Storage Haoyang Wu University of Science and Technology Beijing China Paper# 65	Extra-Large Pore Zeolite Synthesis Using Modified Natural Alkaloid as Organic Structure Directing Agent Jiuxing Jiang Sun Yat-sen University China Paper# 84
1230 – 1240	Return to plenary room (Crown 1) for closing presentation	ns	I	1
1240 – 1300	CLOSING PRESENTATION AND PRIZES			Crown 1

Abstracts at a Glance

Total of 674 abstracts submissions

433 Abstracts submitted for oral presentation; remainder offered posters

204 oral presentations at the conference

195 posters presented at the conference

Interesting facts

90 abstracts offered either an oral or a poster withdrawn

85 offered a poster with no response

65 abstracts withdrawn for failure to register

Abstract Process

The Call for Abstracts opened on Monday 12th November 2018 and was planned to close on Monday 14th January 2019, however, there was an extension to submit until Monday 28th January 2019.

Author Notifications were sent in February 2019.

Review and Selection

The lodgement of an abstract does not indicate automatic inclusion into the Conference Program and the registration process must also be completed.

Abstract Format and Layout Guidelines

Abstract must be written in English and use Arial font, 11 pt

Maximum length of the abstract is 2 pages and should be divided into four sections: Introduction, Experimental, Results and Discussion, Conclusions.

Title: Make the title of the abstract brief, clearly indicating the nature of the investigation. Use CAPITAL LETTERS and BOLD for the title

Name of the author(s): Type only the initial of the first name(s), which should follow the family name(s). Do not include degrees or professional title e.g. Smith J

Address/Institution: Type name and location of the department or institution with which this work is affiliated

Abbreviations: Standard abbreviations may be used. Place special or unusual abbreviations in parentheses after the full wording at the first instance it appears in the body of the text

References should be numbered consecutively in the text and listed at the end according to the following style: 1. Author E. ChemCatChem. 54 (3), 1234-5678 (2016).

It is the author's responsibility to submit a correct abstract; any errors in spelling, grammar, or scientific fact may be reproduced in Conference publications as typed by the author.

Review Process

All abstracts will undergo a peer review process by the IZC'19 International Scientific Board. The IZC'19 International Scientific Board will allocate abstracts taking into account the quality of each abstract and the balance of the program.

Author Acceptance

Following the review of all abstracts, authors will be notified via email of their abstract acceptance in February 2019. This notification will include advice regarding the format (i.e. oral or poster) selected for your presentation.

Presentation

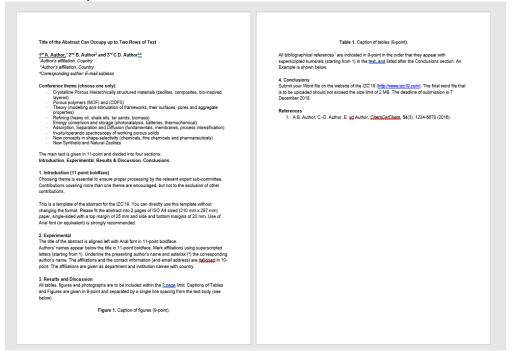
Oral Presentation: Unless advised otherwise, all oral presentations are 15 minutes, plus 5 minutes for question time.

Poster Presentation: Posters will be displayed throughout the Conference. Each poster will be allocated a poster board number and authors must create an A0 size (maximum of 841 mm (width) x 1189 mm (height)), portrait static poster. Authors will also be asked to attend to their poster during a designated poster session.

Conference Themes

- Crystalline Porous Hierarchically structured materials (zeolites, composites, bio-inspired, layered)
- Porous polymers (MOF) and (COFS)
- Theory (modelling and simulation of frameworks, their surfaces, pores and aggregate properties)
- Refining (heavy oil, shale oils, tar sands, biomass)
- Energy conversion and storage (photocatalysis, batteries, thermochemical)
- Adsorption, Separation and Diffusion (fundamentals, membranes, process intensification)
- In-situ/operando spectroscopy of working porous solids
- New concepts in shape-selectivity (chemicals, fine chemicals and pharmaceuticals)
- New Synthetic and Natural Zeolites
- Synthesis
- Characterisation
- Computational and Theoretical Investigations
- Applications
- Adsorption and Catalysis
- Biomaterials and Engineering Applications
- Novel Applications

Abstract Template

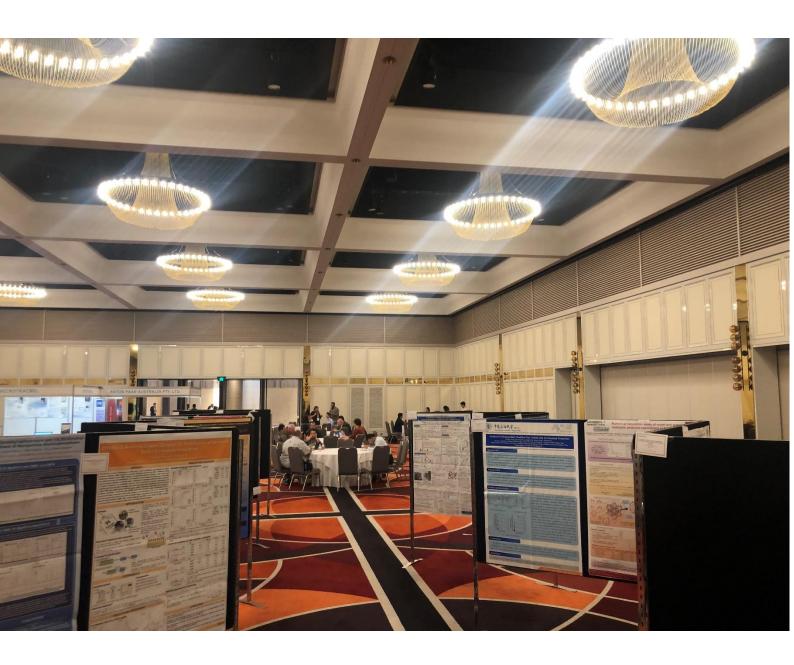


Poster Information

Poster Location

Posters were displayed in the exhibition hall alongside the exhibition booths. All tea breaks and lunches were served amongst this space, providing delegates with the opportunity to view the posters during the catering breaks as well as at the dedicated poster sessions on Monday and Tuesday afternoon.

Authors were asked to hang their posters by no later than 10.00am on Monday 8 July.



Registration

Key Dates

Early Bird Registration Deadline: Monday 15 April 2019 Standard Registration Opened: Tuesday 16th April 2019

Onsite Registration: Friday 7th July

Registration Type	Early Bird Closing Monday 15 April 2019	Standard Prices applies from Tuesday 16 April 2019	On-site Prices applies from Friday 7 July 2019
Full Registration	\$1100.00	\$1265.00	\$1320.00
*Student/Concession Full Registration	\$544.50	\$599.50	\$654.50
Additional Exhibitor Registration	\$495.00	\$495.00	\$495.00

Full Registration Inclusions

- Tea breaks and lunches
- Access to Conference Sessions
- Cultural Excursion
- Welcome Reception
- Delegate Bag
- Program Guide
- Name Badge and Lanyard



Conference dinner tickets were exclusive of full registration at were purchased separately \$140.00 pp.

The registration desk was located in the foyer of the Grand Ballroom, Crown Perth.

Delegates were requested to personally register on arrival to collect their registration pack and conference name badge. The conference name badges are always to be worn during the conference.

The registration desk was be open from the following times:

Sunday 7 July: 1400 - 1900 Monday 8 July: 0730 - 1730 Tuesday 9 July: 0730 - 1730 Wednesday 10 July: 0730 - 1300 Thursday 11 July: 0730 - 1730 Friday 12 July: 0730 - 1300 Exhibitor Registration

Exhibitor Registrations included access to the Exhibition Hall, catering and Welcome Reception.

Sponsor Registration

Geographical Statistics

Australia	38	Norway	1
Belgium	10	Phillipines	3
Brazil	5	Poland	13
Bulgaria	1	Portugal	1
China	153	Russia	2
Colombia	1	Saudia Arabia	3
Croatia	1 7		
Czech Republic	11	Serbia	1
Denmark	4	Singapore	3
Finland	1	Slovenia	3
· iiiidiid	-	South Africa	2
France	18		
Germany	26	South Korea	33
Ghana		Spain .	11
	1	Sweden	5
Hong Kong	2	2333,233	5
India	12		2
Indonesia	2	<u>Thailand</u>	2
Iran	1	UAE	5
Italy	3		35
Japan	55	USA	30
The Netherlands	4	1	509

Registration	Numbers
Accompanying Person	16
Additional Exhibitor Registration	4
Committee Registrations	10
Early Bird Full Registration	231
Early Bird Student Full Registration	87
Exhibitor Inclusive	10
Keynote Speaker	15
Plenary Speaker	5
Sponsor Registration	14
Standard Full Registration	71
Standard Student Full Registration	13
Travel Grant Registration	13
Travel Grant Student Registration	21

Accommodation Pricing offered at time of Registration.

Crown Towers

Room Type	Daily Rate	Inclusions
Deluxe	\$290.00	Standard in-room Wi-Fi access
Deluxe	\$315.00	One buffet breakfast at Epicurean and standard in-room Wi-Fi access
Deluxe	\$340.00	Two buffet breakfasts at Epicurean and standard in-room Wi-Fi access

Crown Metropol

Room Type	Daily Rate	Inclusions
Luxe	\$240.00	Standard in-room Wi-Fi access
Luxe	\$260.00	One buffet breakfast at Atrium and standard in-room Wi-Fi access
Luxe	\$280.00	Two buffet breakfasts at Atrium and standard in-room Wi-Fi access

Crown Promenade Perth

Room Type	Daily Rate	Inclusions
Superior	\$200.00	Standard in-room Wi-Fi access
Superior	\$215.00	One buffet breakfast at Market & Co restaurant and standard in-room Wi-Fi access
Superior	\$230.00	Two buffet breakfasts at Market & Co restaurant and standard in-room Wi-Fi access

Aloft Perth

Room Type	Room and Breakfast 1 Guest	Room and Breakfast 2 Guests
Aloft King/Twin	\$190.00	\$210.00

Accompanying Partner Program Offered

Sunday 7 July

Perth Swan River Cruise

Enjoy the upper reaches of the Swan River from a different perspective on our exclusive cruise. Crown Shuttle Time: 9.15am arriving Barrack Street Jetty at 9.30am for 9.55am tour

Barrack Street Shuttle Time: 12noon arriving Crown 12.15pm

AUD 40.00

** Cancellations within 24 hours no refund



Monday 8 July

Perth Art, Coffee & Culture Walking Tour

Start your day in Perth with a coffee (or tea), and a dash of culture, art and history. Discover hidden art, laneways, secret gardens, amazing cafes and learn about the local history while exploring the city.

Crown Shuttle Time: 9.30am arriving Town Hall at 9.45am for 10.00am tour Elizabeth Quay Shuttle Time: 12.15pm arriving Crown 12.30pm AUD 40.00PP

** Cancellations within 48 hours no refund





Tuesday 9 July

The Perth Mint

A guided tour of Perth Mint takes you through exhibits featuring millions of dollars of gold and other precious metals, including the Australian Kangaroo One Tonne Gold Coin—the world's largest gold bullion coin. You also learn the Mint's history and watch gold being melted, poured, and formed into bars.

Crown Shuttle Time: 9.00am arriving 9.15am for 9.30am tour Perth Mint Shuttle Time: 12noon arriving Crown 12.15pm

AUD 19.00PP

** Cancellations within 48 hours no refund



Discover Perth Full Day Tour

Join us for a memorable day discovering Perth and enjoying the many sites has to offer. If you are looking for a quality tour with our knowledgeable guides, then join us for a tour to remember. includes transfers pick up drop off Crown Hotel.

AUD 125.00

** Cancellations within 48 hours 25% fee, within 24 hours no refund



Koalas, Pinnacles & Sand Boarding Tour

Visit beautiful Yanchep National Park to view one of Australia's favourite native animals, the koala. You may even see kangaroos on your walk! Continue to the seaside town of Lancelin, one of Western Australia's best kept holiday secrets where you'll enjoy a 45 minute Sand boarding Adventure through the sand dunes. Not for the faint hearted, this thrill ride takes you up and down some of the biggest dunes in Western Australia.

Next stop, Lobster Shack in the coastal town of Cervantes, for a delicious fish and chip lunch (upgrade to Lobster available at extra cost) and whilst there, take a tour and follow the Western Rock Lobsters journey.

Final stop of the day is the remarkable Pinnacles Desert, one of Australia's most unique and fascinating natural landscapes. Formed over millions of years, thousands of tall limestone spires rise eerily out of the yellow desert sands within the Nambung National Park. Head back to Perth city, arriving early evening.

includes transfers pick up drop off Crown Hotel

AUD 135.00

** Cancellations within 48 hours 25% fee, within 24 hours no refund



Thursday 11 July Elizabeth Quay Aboriginal Walking Tour

90-minute walking with your tour guide on location by the Swan River at Elizabeth Quay, Perth CBD and embark on a journey of discovery through the historic and cultural landscape of Aboriginal life prior to European settlement. Crown Shuttle Time: 9.30am arriving Elizabeth Quay at 9.45am for 10.00am tour

Barrack Street Shuttle Time: 12noon arriving Crown 12.15pm

AUD 60.00

** Cancellations within 48 hours



Partner Program Uptake

Tour	Registrations
Discover Perth Full Day Tour	4
Koalas, Pinnacles & Sand Boarding Tour	9
The Perth Mint	2
Elizabeth Quay Aboriginal Walking Tour	6

Social Program at a glance

Welcome Reception

Sunday 7 July – 6pm – 7.30pm Included in full registration Additional tickets – \$82.50

Cultural Excursion

Wednesday 10 July – 1pm – 6pm Included in full registration Additional tickets – \$65.00

Conference Dinner

Thursday 11 July 7pm – 11pm Not included in registration

Tickets could be purchased separately for \$140.00per person.

Social Event	Registrations
Conference Dinner	228
Cultural Tour - Excursion	476
Welcome Reception	502

Sponsorship & Exhibition

Sponsors

Trade Exhibition Hours

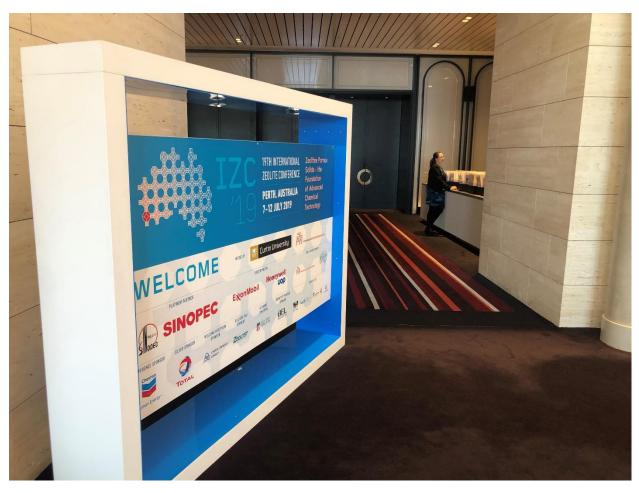
Sunday 7 July	17:30 – 19:00
Monday 8 July	08:00 - 17:00
Tuesday 9 July	08:00 - 17:00
Wednesday 10 July	08:00 - 14:00
Thursday 11 July	08:00 - 17:00
Friday 12 July	08:00 - 11.30



Confirmed Exhibitors

Exhibitor List

Organisation	Stand Number	
Anton Paar Australia	020	
China Catalyst	015	
Hiden Analytical	014	
Hiden Isochema	011	
MicrotracBEL	016	
Tatva Chintan Pharma Chem	008	



EXHIBITORS

Sinopec



China Catalyst



Anton Paar



Hiden Analytical



MicrotrtacBEL



Hiden Isochema



Tatvachinatan Pharmachem



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TRAVEL GRANT SPONSORS





CONFERENCE SPONSOR



SILVER SPONSOR



WELCOME RECEPTION SPONSOR



DELEGATE BAG SPONSOR



ACADEMIC SUPPORTER



SCIENTIFIC PROGRAM SPONSOR



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IZC119 DOWNLOAD THE APP

Conference App

Delegates were encouraged to download the IZC'10 Conference app to their smartphone prior to the conference. The App provided the most up to date information regarding speakers, conference program and social program. Any program changes were communicated live through the app. Delegates were able to personalise their own agendas and participate in the interactive news feed with sponsors and exhibitors.















Download Instructions

The IZC'19 App can be downloaded from the instructions below:

- 1. Search for "Events by Encanta" on the App or Google Play store.
- 2. Once downloaded, you can open the Events by Encanta App and search for the event IZC'19
- Then press the "Join" button at enter your profile details.

Marketing and Promotion

E-blasts

A total of 20 e-blasts were sent in the lead-up to the Conference. The first being sent to advertise the conference and save the date on Monday 15th October 2018. Following this, a Call for Abstracts e-blast was distributed to a database of over 800. The IZC'19 database was just under 900 subscribers this was combined with email addresses who had expressed an interest to attend and registered attendees.

Title	Date Sent	Open Rate	Click Rate	Recipients
IZC 2019 Launch	Monday 15 th October	36.1%	7.1%	974
IZC 2019 Launch Reminder	Monday 12 th November	34.3%	4.5%	974
Call for Abstracts	Tuesday 8 th January	32.1%	5.8%	974
Abstracts Closing in 24 Hours	Sunday 13 th January	30.1%	5.4%	974
Deadline Extended - Abstracts	Tuesday 15 th January	27.8%	3.1%	974
Deadline Extended – Australia Day	Friday 18 th January	31.8%	3.7%	974
Final Reminder - Abstracts	Friday 25 th January	29.4%	3.4%	974
Early Bird Registration Open	Friday 15 th February	30.6%	8.1%	974
It's not too late to register – Early Bird Closing in 2 weeks	Monday 1 st April	30.0%	6.3%	974
Early Bird Extended and R&R Announcement	Friday 12 th April	35.4%	6.0%	974
One Week to go Research Reports	Thursday 23 rd May	31.0%	3.3%	974
Download the App	Friday 21 st June	31.8%	4.4%	974



IZA General Assembly

The IZA General Assembly was held Thursday 11 July from 1110 – 1230 with no conflicting sessions taking place during this time.

Seven new members were elected to the IZA Council being:

- Jeffrey Rimer
- Tina Düren
- Svetlana Mintova
- Zhongmin Liu
- Yong Ki Park
- Masaru Ogura and
- Michael Stockenhuber



The officers are:

President: Martin Hartmann, Vice President: Zhongmin Liu, Treasurer: Jeffrey Rimer, Secretary: Heloise Pastore.

The venue for the 21st IZC in 2025 was confirmed as Dalian, China.

The Breck Awardee was the team Stephen Brand, Joel Schmidt, Michael Deem, Frits Daeyaert, Yanhang Ma, Osamu Terasaki, Marat Orazov and Mark Davis for "The first synthesis of enantiomerically enriched STW zeolite"

The IZA Award was given to Prof. Wilhelm Schwieger, he is the IZA Ambassador from 2019 to 2021.

Finally, the new honorary members were Christian Baerlocher, Takashi Tatsumi and Giuseppe Bellussi.