

PROGRAMME

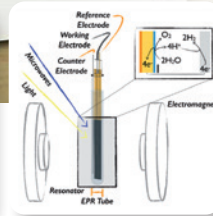
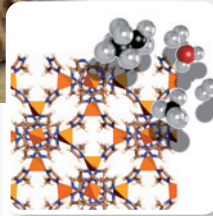
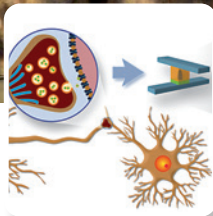
23 – 25 February 2022  
 DECHEMA-House · Frankfurt am Main · Germany

**30<sup>th</sup> ATC**  
**Industrial Inorganic Chemistry –**  
**Materials and Processes &**  
**2<sup>nd</sup> ATC PhD Student Workshop**

[https://dechema.de/en/30\\_ATC\\_22](https://dechema.de/en/30_ATC_22)



? *Translating into Sustainability Technology*



**Let's celebrate 30 years of ATC conference together!**

Research in inorganic chemistry has been the key to manifold applications and covers very diverse fields as electronics, energy generation, -conversion and -storage, analytical methods or consumer products. The 30<sup>th</sup> anniversary ATC 2022 (24 – 25 February) will deal with a present “hot topic” that will shape the future, and have an impact on science and the economy: **Green Deal in inorganic chemistry!**

At the 30<sup>th</sup> anniversary ATC 2022 experts from industry and academia will present and discuss all aspects of this topic - a unique opportunity for interdisciplinary exchange and the development of new ideas!

The day before the ATC Conference, the **2<sup>nd</sup> ATC PhD Student Workshop** will take place on **23 February** as an excellent interdisciplinary exchange event for young researchers in inorganic chemistry.

**COMMITTEE**

The programme has been arranged by the Working Group “Applied Inorganic Chemistry” of ProcessNet:

<b>Prof. Dr. Michael Fröba</b>	Universität Hamburg/D
<b>Prof. Dr. Nicola Hüsing</b>	Universität Salzburg/A
<b>Prof. Dr. Stefan Kaskel</b>	TU Dresden/D
<b>Prof. Dr. Peer Kirsch</b>	Merck KGaA, Darmstadt/D
<b>Prof. Dr. Ulrike Kramm</b>	TU Darmstadt/D
<b>Prof. Dr. Frank Menzel</b>	Evonik Industries AG, Hanau/D
<b>Wilfried Müller</b>	Umicore AG & Co. KG, Hanau/D
<b>Dr. Florian Paul</b>	DECHEMA e.V., Frankfurt am Main/D
<b>Prof. Dr. David Scheschkewitz</b>	Universität des Saarlandes, Saarbrücken/D
<b>Dr. Kerstin Schierle-Arndt</b>	BASF SE, Ludwigshafen/D
<b>Prof. Dr. Gerhard Sextl</b>	Fraunhofer ISC, Würzburg/D
<b>Dr. Hans-Jürgen Wachter</b>	Heraeus AMLOY Technologies GmbH, Karlstein/D

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Front picture sources: A. Knebel, Otto Schott Institut, Jena; D. Munz, Universität Saarbrücken; A. Nymand-Andersen, Evonik Operations GmbH, Essen; A. Schnegg, MPI, Mülheim; R. Waser, RWTH Aachen

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Picture source: Pingjun Ying, Leibniz Institute for Solid State and Materials Research, Dresden

## Wednesday, 23 February 2022

12:15 Registration

13:00 Welcome address

U. Kramm, TU Darmstadt/D; F. Menzel, Evonik Operations GmbH, Hanau/D

## MATERIALS AND PROCESSES IN DECARBONISATION

*Chairs: F. Menzel, Evonik Operations GmbH, Hanau/D; U. Kramm, TU Darmstadt/D*13:05 **The functional chameleon of materials chemistry – Design principles and structure-property relationships of carbon-based materials for energy applications**  
M. Oschatz<sup>1</sup>; <sup>1</sup> Friedrich-Schiller-Universität Jena/D13:35 **Influence of B-site atom on its bifunctional activity in  $\text{LaFe}_x\text{Co}_{1-x}\text{O}_{3-\delta}$  for zinc air batteries**  
H. Siddiqui<sup>1</sup>; A. Waidha<sup>2</sup>; S. Kanbach<sup>1</sup>; M. Kübler<sup>1</sup>; J. Palakkal<sup>1</sup>; S. Haller<sup>1</sup>; O. Clemens<sup>2</sup>; L. Alff<sup>1</sup>; U. Kramm<sup>1</sup>; <sup>1</sup> Technical University of Darmstadt/D; <sup>2</sup> University of Stuttgart/D13:50 **Electronic and chemical passivation of p-InP photocathodes in the presence of molecular water**  
D. Moritz<sup>1</sup>; B. Kaiser<sup>1</sup>; J. Hofmann<sup>1</sup>; W. Jaegermann<sup>1</sup>; <sup>1</sup> TU Darmstadt/D14:05 **Poster flash talks, Part I (Co1 to Co6)**

14:35 Coffee break and poster viewing

## SUSTAINABLE MATERIALS AND PROCESSES

*Chairs: W. Mueller, Umicore AG & Co. KG, Hanau/D; J. Wachter, Heraeus AMLOY Technologies GmbH, Karlstein/D*15:05 **TANDEM LECTURE****Rare Earth Recycling – Crossing the synthesis scale of research and industry**  
J. Gassmann<sup>1</sup>; A. Buckow<sup>2</sup>; <sup>1</sup> Fraunhofer - IWKS, Hanau/D; <sup>2</sup> Heraeus, Hanau/D15:50 **Iron molybdate in the oxidative dehydrogenation of ethanol**  
N. Oefner<sup>1</sup>; F. Heck<sup>1</sup>; M. Dürl<sup>2</sup>; L. Schumacher<sup>1</sup>; H. Siddiqui<sup>1</sup>; K. Hofmann<sup>1</sup>; U. Kramm<sup>1</sup>; C. Hess<sup>1</sup>; A. Möller<sup>2</sup>; B. Albert<sup>1</sup>; B. Etzold<sup>1</sup>; <sup>1</sup> TU Darmstadt/D; <sup>2</sup> Johannes Gutenberg University Mainz/D16:05 **Poster flash talks, Part II (Co7 to C12)**16:35 **Poster Session with prezel, finger food and drinks**

18:00 End of the workshop

45 min.
  30 min.
  15/20 min.

## Thursday, 24 February 2022

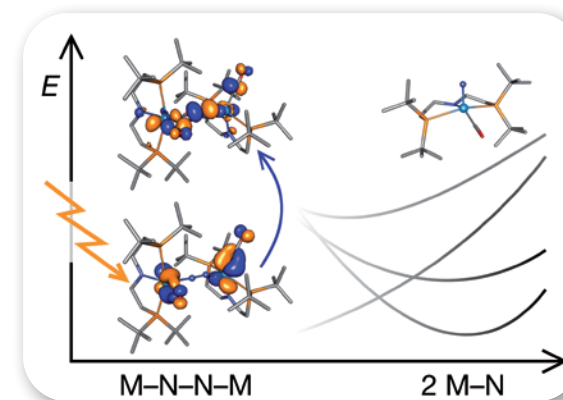
09:00 Registration

10:00 **Welcome address, look-back and highlights of ATC conferences in the last 30 years**  
S. Kaskel, TU Dresden/D10:15 **PLENARY LECTURE****Inorganic solid state chemistry as a key to new syngas conversion catalysts**  
M. Behrens<sup>1</sup>; <sup>1</sup> Christian-Albrechts-Universität zu Kiel/DCONTRIBUTION TO CO<sub>2</sub> NEUTRALITY*Chairs: S. Kaskel, TU Dresden/D; D. Scheschkewitz, Universität des Saarlandes, Saarbrücken/D*11:00 **Carbon capture and energy efficient gas separation with membranes based on metal-organic framework materials**  
A. Knebel<sup>1</sup>; <sup>1</sup> Friedrich Schiller University Jena, Otto Schott Institute of Materials Research, Jena/D

11:30 Coffee break and poster viewing

11:50 **What is an ammonia economy?**A. Nymand-Andersen<sup>1</sup>; <sup>1</sup> Evonik Operations GmbH, Marl/D12:20 **Regenerating metal-supported nanoparticles for CO<sub>2</sub> conversion applications**  
S. Mascotto<sup>1</sup>; B. Ehrhardt<sup>1</sup>; B. Rudolph<sup>1</sup>; A. Tsiotsias<sup>2</sup>; M. Goula<sup>2</sup>; E. Brusamarello<sup>3</sup>; A. Glisenti<sup>3</sup>; <sup>1</sup> Universität Hamburg/D; <sup>2</sup> University of Western Macedonia, Kolia/GR; <sup>3</sup> University of Padua, Padua/I12:40 **Light-driven activation of small molecules: quantum chemical insights into photochemical nitrogen fixation**  
V. Krewald<sup>1</sup>; <sup>1</sup> TU Darmstadt/D

13:10 Lunch break and poster viewing



Picture source: V. Krewald, TU Darmstadt

## Thursday, 24 February 2022

14:25	<b>New approaches to C<sub>1</sub>, N<sub>1</sub> and N<sub>2</sub> transfer</b> D. Munz <sup>1</sup> ; <sup>1</sup> Universität des Saarlandes, Saarbrücken/D
14:55	<b>Photocatalytic CO<sub>2</sub> reduction: Only a scientific playground or a reaction with future potential?</b> J. Strunk <sup>1</sup> ; <sup>1</sup> Leibniz-Institut für Katalyse e.V., Rostock/D
15:25	<b>Can iron replace palladium as catalyst in the selective hydrogenation of acetylene?</b> S. Hock <sup>1</sup> ; M. Rose <sup>1</sup> ; <sup>1</sup> TU Darmstadt, Ernst-Berl-Institut/D
15:45	Coffee break and poster viewing
<b>MATERIALS FOR SUSTAINABLE APPLICATIONS</b>	
<i>Chairs: M. Fröba, University of Hamburg/D; F. Menzel, Evonik Operations GmbH, Hanau/D</i>	
16:00	<b>Base metal nanoparticles: Synthesis and use</b> C. Feldmann <sup>1</sup> ; D. Bartenbach <sup>1</sup> ; A. Egeberg <sup>1</sup> ; L. Faden <sup>1</sup> ; A. Reiß <sup>1</sup> ; C. Schöttle <sup>1</sup> ; <sup>1</sup> Karlsruhe Institute of Technology (KIT)/D
16:20	<b>Impinging Jet Microreactor for continuous high-throughput synthesis of photo- and electrocatalysts</b> K. Stöwe <sup>1</sup> ; J. Hiemer <sup>1</sup> ; N. Lynn <sup>1</sup> ; T. Modl <sup>1</sup> ; S. Schmitz-Stöwe <sup>1</sup> ; T. Schwarz <sup>1</sup> ; <sup>1</sup> Technische Universität Chemnitz/D
16:40	<b>Communicating Particles for Sustainability</b> K. Mandel <sup>1</sup> ; <sup>1</sup> Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Erlangen/D
17:00	Coffee break and poster viewing
17:15	<b>Towards tellurium-free thermoelectric modules for power generation from low-grade heat</b> K. Nielsch <sup>1</sup> ; <sup>1</sup> Leibniz Institute for Solid State and Materials Research, Dresden/D
<i>Chair: M. Fröba, University of Hamburg/D</i>	
17:45	<b>SPECIAL LECTURE</b> <b>Inorganic chemical processes in the production of ancient Greek and Roman sculptures and their experimental reconstruction</b> V. Brinkmann <sup>1</sup> ; <sup>1</sup> Liebieghaus, Frankfurt am Main/D
18:15	Poster party and get together (18:15-20:45)



Picture source: Liebieghaus Frankfurt

## Friday, 25 February 2022

<b>MATERIALS FOR ENERGY EFFICIENT ELECTRONICS</b>	
<i>Chairs: U. Kramm, TU Darmstadt/D; K. Schierle-Arndt, BASF SE, Ludwigshafen/D</i>	
09:30	<b>Multinary materials for emerging memory and selector devices</b> M. Weling <sup>1</sup> ; <sup>1</sup> Merck
10:00	<b>Memristive materials and devices for neuromorphic computing</b> R. Dittmann <sup>1</sup> ; R. Waser <sup>1</sup> ; <sup>1</sup> Forschungszentrum Jülich GmbH/D
<b>RECYCLING</b>	
<i>Chairs: U. Kramm, TU Darmstadt/D; K. Schierle-Arndt, BASF SE, Ludwigshafen/D</i>	
10:30	<b>P-XTRACT: regional phosphate recycling using sewage sludge combustion</b> P. Kurz <sup>1</sup> ; L. Bier-Schorr <sup>1</sup> ; V. Gräser <sup>1</sup> ; P. Hajek <sup>1</sup> ; M. Scherer-Lorenzen <sup>1</sup> ; <sup>1</sup> Albert-Ludwigs-Universität Freiburg/D
10:50	Coffee break and poster viewing
11:30	<b>BEST POSTER AWARD</b> <i>Chair: U. Kramm, TU Darmstadt/D</i>
<b>ADVANCED CHARACTERIZATION METHODS</b>	
<i>Chairs: U. Kramm, TU Darmstadt/D; K. Schierle-Arndt, BASF SE, Ludwigshafen/D</i>	
11:40	<b>State of the art electron microscopy in inorganic chemistry research</b> B. Hinrichsen <sup>1</sup> ; P. Müller <sup>1</sup> ; H. Waindok <sup>1</sup> ; <sup>1</sup> BASF SE, Ludwigshafen/D
12:10	<b>Electron spins as probes for catalysis research</b> A. Schnegg <sup>1</sup> ; <sup>1</sup> MPI CEC, Mülheim a. d. Ruhr/D
12:40	<b>Closing remarks</b> <i>Chair: K. Schierle-Arndt, BASF SE, Ludwigshafen/D</i>
12:45	End of the conference, lunch-bag

45 min.
  30 min.
  15/20 min.

## POSTER PROGRAMME

ATC = posters at the 30<sup>th</sup> ATC from 24-25 February

C = posters at the 2<sup>nd</sup> PhD Student Workshop and 30<sup>th</sup> ATC from 23-25 February

- C01 **Modified TiO<sub>2</sub> for photocatalytic oxidation of nitric oxides**  
M. Stötzer<sup>1</sup>; J. Grothe<sup>1</sup>; S. Kaskel<sup>1</sup>; <sup>1</sup> TU Dresden/D
- C02 **Aryl-substituted silanols - Synthesis, properties and condensation behavior**  
J. Kannengießer<sup>1</sup>; G. Kickelbick<sup>1</sup>; <sup>1</sup> Universität des Saarlandes, Saarbrücken/D
- C03 **Synthesis and characterization of polysilsesquioxane hybrid melting gels**  
S. Pohl<sup>1</sup>; O. Janka<sup>1</sup>; G. Kickelbick<sup>1</sup>; <sup>1</sup> Saarland University, Saarbrücken/D
- C04 **Integration of carbon electrodes for switchable supercapacitors (ipG-Cap)**  
Y. Bräuniger<sup>1</sup>; S. Lochmann<sup>1</sup>; C. Gellrich<sup>1</sup>; L. Galle<sup>1</sup>; J. Grothe<sup>1</sup>; S. Kaskel<sup>1</sup>; <sup>1</sup> TU Dresden/D
- C05 **New synthesis route for metal acetylene dicarboxylates**  
T. Otto<sup>1</sup>; J. Grothe<sup>1</sup>; S. Kaskel<sup>1</sup>; <sup>1</sup> TU Dresden/D
- C06 **Physical properties of ball-milled Fe<sub>2</sub>(MoO<sub>4</sub>)<sub>3</sub> – a catalyst for oxidative dehydrogenation**  
M. Dürl<sup>1</sup>; A. Möller<sup>1</sup>; M. Panthöfer<sup>1</sup>; <sup>1</sup> University of Mainz/D
- C07 **Improving the properties of flexible hybrid-silica aerogels**  
K. Steffens<sup>1</sup>; D. Bialuschewski<sup>1</sup>; B. Milow<sup>1</sup>; <sup>1</sup> Universität zu Köln/D
- C08 **Synthesis development of mixed metal oxide aerogels using sol-gel process for catalytic applications**  
A. Rose<sup>1</sup>; P. Vöpel<sup>1</sup>; B. Milow<sup>1</sup>; <sup>1</sup> German Aerospace Center (DLR), Köln/D
- C09 **P-XTRACT: Phosphate recycling from a local wastewater treatment plant**  
L. Bier-Schorr<sup>1</sup>; C. Wildschut<sup>1</sup>; P. Kurz<sup>1</sup>; <sup>1</sup> Albert Ludwig University of Freiburg/D
- C10 **Throughout exploitation of InfraSORP-technology for adsorption and catalysis screening**  
N. Unglaube<sup>1</sup>; J. Grothe<sup>1</sup>; S. Kaskel<sup>1</sup>; <sup>1</sup> TU Dresden/D
- C11 **Comparison of single organic precursor iron, cobalt and nickel metal-organic frameworks derived materials as multimetallic electrocatalysts**  
M. Alam<sup>1</sup>; K. Ping<sup>1</sup>; N. Kongi<sup>2</sup>; P. Starkov<sup>1</sup>; <sup>1</sup> Tallinn University of Technology, Tallinn/EST; <sup>2</sup> Tartu University, Tartu/EST
- C12 **Precipitation and characterization of iron molybdate catalysts**  
F. Heck<sup>1</sup>; N. Oefner<sup>1</sup>; L. Schumacher<sup>1</sup>; H. Siddiqui<sup>1</sup>; K. Hofmann<sup>1</sup>; U. Kramm<sup>1</sup>; C. Hess<sup>1</sup>; B. Etzold<sup>1</sup>; B. Albert<sup>1</sup>; <sup>1</sup> TU Darmstadt/D
- ATCo1 **Siliconoid-silsesquioxane hybrids as molecular models of silicon monoxide**  
M. Hunsicker<sup>1</sup>; M. Zimmer<sup>1</sup>; V. Huch<sup>1</sup>; D. Scheschkewitz<sup>1</sup>; <sup>1</sup> Universität des Saarlandes, Saarbrücken/D
- ATCo2 **Polymers with Ge=Ge double bonds**  
A. Thömmes<sup>1</sup>; B. Morgenstern<sup>1</sup>; D. Scheschkewitz<sup>1</sup>; <sup>1</sup> Universität des Saarlandes, Saarbrücken/D
- ATCo3 **Flame made mixed metal oxides as CO oxidation catalysts**  
F. Spranger<sup>1</sup>; J. Grothe<sup>1</sup>; S. Kaskel<sup>1</sup>; <sup>1</sup> TU Dresden/D

## POSTER PROGRAMME

- ATCo4 **The influence of synthesis conditions on the phases of MOF-derived FexPy and their application for sodium ion battery**  
E. Zhang<sup>1</sup>; J. Grothe<sup>1</sup>; S. Kaskel<sup>1</sup>; <sup>1</sup> TU Dresden/D
- ATCo5 **Toward a synthesis of the silicon-carbon mixed cluster: Using cyclobutadiene as a key component**  
T. Imagawa<sup>1</sup>; B. Morgenstern<sup>1</sup>; M. Nakamoto<sup>2</sup>; D. Scheschkewitz<sup>1</sup>; <sup>1</sup> Saarland University, Saarbrücken/D; <sup>2</sup> Hiroshima University/J
- ATCo6 **A striking mode of activation of carbon disulfide with a cooperative bis(silylene)**  
L. Giarrana<sup>1</sup>; M. Lücke<sup>2</sup>; A. Kostenko<sup>2</sup>; T. Gensch<sup>2</sup>; S. Yao<sup>2</sup>; P. Nixdorf<sup>2</sup>; M. Driess<sup>2</sup>; <sup>1</sup> Universität des Saarlandes, Saarbrücken/D; <sup>2</sup> TU Berlin/D
- ATCo7 **Tuning the RedOx-activity of polyoxometalate catalysts by transition-metal substitution**  
M. Poller<sup>1</sup>; J. Raabe<sup>1</sup>; J. Albert<sup>1</sup>; <sup>1</sup> Universität Hamburg (UHH)/D
- ATCo8 **Unsaturated Si-P-cycles and their transition metal complexes**  
D. Mühlhausen<sup>1</sup>; Y. Heider<sup>2</sup>; P. Willmes<sup>2</sup>; D. Scheschkewitz<sup>2</sup>; <sup>1</sup> Saarland University, Eppelborn/D; <sup>2</sup> Saarland University, Saarbrücken/D
- ATCo9 **Influence of electron density on the hydrogen evolution reaction of iron porphyrin model catalysts**  
N. Heppel<sup>1</sup>; C. Gallenkamp<sup>1</sup>; W. Jaegermann<sup>1</sup>; V. Krewald<sup>1</sup>; U. Kramm<sup>1</sup>; <sup>1</sup> TU Darmstadt/D
- ATC10 **Post-mortem analysis of MNC catalysts at different stages of CO<sub>2</sub> reduction reaction**  
N. Segura<sup>1</sup>; S. Paul<sup>1</sup>; M. Kübler<sup>1</sup>; N. Heppel<sup>1</sup>; W. Jaegermann<sup>1</sup>; U. Kramm<sup>1</sup>; <sup>1</sup> TU Darmstadt/D
- ATC11 **Cu-based ex-LDH catalysts for CO<sub>2</sub> hydrogenation to methanol**  
J. Gieser<sup>1</sup>; Q. Yang<sup>2</sup>; E. Kondratenko<sup>2</sup>; M. Behrens<sup>3</sup>; <sup>1</sup> University of Duisburg-Essen, Duisburg/D; <sup>2</sup> Leibniz-Institut für Katalyse e. V. an der Universität Rostock (LIKAT)/D; <sup>3</sup> Christian-Albrechts-Universität zu Kiel/D
- ATC12 **Investigation of the chemistry of Fe-N-C catalyst formation during pyrolysis**  
V. Potapkin<sup>1</sup>; <sup>1</sup> TU Darmstadt/D
- ATC13 **Doped polypyrrole as precursor for the preparation of a FeNC based catalyst for the oxygen reduction reaction in fuel cells**  
M. Kübler<sup>1</sup>; J. Scharf<sup>2</sup>; P. Theis<sup>1</sup>; L. Ni<sup>1</sup>; N. Kubitzka<sup>1</sup>; S. Paul<sup>3</sup>; U. Kramm<sup>1</sup>; <sup>1</sup> TU Darmstadt/D; <sup>2</sup> BMW Group, Eching/D; <sup>3</sup> EKPO Fuel Cell Technologies GmbH, Dettingen/D
- ATC14 **Malachite- and mcguinnessite-based catalyst precursors for methanol synthesis from CO<sub>2</sub>-rich synthesis gas**  
G. Behrendt<sup>1</sup>; M. Behrens<sup>2</sup>; <sup>1</sup> Universität Duisburg-Essen, Essen/D; <sup>2</sup> Christian-Albrechts-Universität Kiel/D
- ATC15 **Innovative adsorbent-based textiles for the removal of gaseous PAHs**  
E. Schade<sup>1</sup>; V. Gottsmann<sup>2</sup>; J. Friedrich<sup>1</sup>; A. Schuffenhauer<sup>3</sup>; S. Kaskel<sup>4</sup>; <sup>1</sup> Fraunhofer IWS, Dresden/D; <sup>2</sup> Technische Universität Dresden/D; <sup>3</sup> Norafin Industries GmbH, Mildena/D; <sup>4</sup> Fraunhofer IWS & TU Dresden/D
- ATC16 **Production of nanoscale ZnO by pulsation reactor and its absorption behavior of UV light**  
K. Wegner<sup>1</sup>; T. Khalil<sup>1</sup>; M. Ommer<sup>1</sup>; <sup>1</sup> IBU-tec advanced materials AG, Weimar/D



## GENERAL INFORMATION

### REGISTRATION FEES<sup>1)</sup>

Participants from:	Member <sup>2)</sup>	Non-Member
Academia	290 €	305 €
Industry	495 €	510 €
(PhD) Student <sup>3)</sup> (PhD Workshop on 23 Feb)	80 €	95 €
(PhD) Student <sup>3)</sup> (ATC on 24-25 Feb)	180 €	195 €
(PhD) Student <sup>3)</sup> (PhD Workshop and ATC, 23-25 Feb)	220 €	235 €

<sup>1)</sup> No VAT requested according to § 4.22 UStG

<sup>2)</sup> Personal DECHEMA-Members, VDI-GVC-Members und EFC/EFCE-Passport-holders

<sup>3)</sup> Proof of status

### REGISTRATION

Online-Registration is possible, subject to capacity in the lecture room, up to the beginning of the conference. You will receive the links to download your registration confirmation, invoice and payment confirmation as PDF files.

Editorial deadline for the list of participants is **5 February 2022**.

The registration fees include conference ticket, programme booklet, list of participants, book of abstracts as PDF, lunch/coffee breaks as well as poster party. Printed documents will be handed out on-site.

**Traditionally, the participation of undergraduate and graduate students is fostered through granting reduced entry fares. University teachers also are allowed to bring in one graduate student for free. Details can be found when processing the online registration.**

### CANCELLATION AND REFUNDS

Cancellations are only accepted in writing (i.e., by fax, postal mail or e-mail).

Please find details about cancellation dates and fees in the general terms and conditions. In case of no-show the conference fees won't be refunded and fees not yet paid still have to be paid.

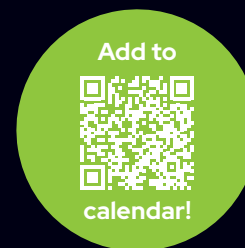
### CORONA INFORMATION AND HYGIENE CONCEPT

We would like to offer you a carefree and safe stay in our house and have developed a hygiene concept that incorporates the current recommendations and directives of the State of Hessen. "2G-plus"-rule applies.

For details please visit the [www.dechema.de/corona](http://www.dechema.de/corona) and download the hygiene concept as PDF.

# ACHEMA2022

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## ORGANIZER AND CONTACT

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