

## SPONSOR



## WORKSHOP (open to all)

**Tuesday, 8 April 2025 from 9:00 - 10:30 h.**

AOP for water and wastewater treatment - guidance for future research

We currently see tremendous research efforts in the field of advanced oxidation with >2,700 results in Scopus search for “Advanced Oxidation Process” only in 2022! However, despite the extensive research in the field, the translation of new AOP concepts into pilot- and full-scale applications remains very limited. One major concern is that inconsistent experimental approaches applied across different studies impede identification, comparison, and upscaling of the most promising AOPs.

The aim of this workshop is to identify major barriers for full-scale implementation of new Advanced Oxidation Processes, and to introduce and discuss potential strategies to improve process upscaling including standardized experimental procedures and benchmarking.

## CONFERENCE DINNER (separate registration necessary)

The Conference Dinner will take place on **Wednesday, 9 April from 19:00-23:00 h** at Apfelweingaststätte Dauth-Schneider, Neuer Wall 5-7, 60594 Frankfurt am Main.

The Dauth Schneider is a typical Frankfurt “Apfelwein” pub in the Sachsenhausen district. Enjoy the Hessian cider and local cuisine.

## VENUE

DECHEMA-Haus  
 Theodor-Heuss-Allee 25  
 60486 Frankfurt am Main/Germany

## ORGANISER

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DECHEMA is the expert network for chemical engineering and biotechnology in Germany. As a non-profit professional society we represent these fields in science, industry, politics and the general public. DECHEMA promotes scientific and technical exchange among experts from different disciplines, organisations and generations. We consolidate the know-how of over 5,500 individual and sustaining members.

## PROGRAMME

**8-10 APRIL 2025**

DECHEMA-HAUS · FRANKFURT AM MAIN/GERMANY

# 7<sup>th</sup> International Advanced Oxidation Processes

[www.iwa-aop.org](http://www.iwa-aop.org)



## Tuesday, 08 April 2025

| Max-Buchner-Hörsaal |   |
|---------------------|---|
| 09:00               | <b>WORKSHOP: „AOP FOR WATER AND WASTEWATER TREATMENT - GUIDANCE FOR FUTURE RESEARCH“</b><br>Uwe Hübner, Holger Lutze, Steffen Rüting, Wolfgang Gernjak, Jannis Wenk |
| 10:30               | Coffee Break  |
| 11:00               | <b>Opening</b><br>Thomas Track / Achim Ried   |
| 11:45               | <b>PLENARY LECTURE</b><br>Emerging AOPs and ARPs – Overview, Potential application, state of implementation<br><b>Wolfgang Gernjak</b><br>Chair: Achim Ried         |
| 12:30               | Lunch with <b>Poster &amp; Exhibition</b>   |
| 13:30               | <b>ADVANCED OXIDATION FOR WATER REUSE</b><br>Chair: Yongjun Zhang   |
|                     | <b>KEYNOTE LECTURE</b><br>Uwe Hübner  |
| 14:00               | Madjid Mohseni  |
| 14:20               | Irene Salmerón  |
| 14:40               | Mohammad Shehryaar Khan   |
| 15:00               | <b>Poster pitches P 06, P 22, P 23, P 25, P 41</b><br>Chair: Philipp Sperle   |
| 15:20               | Coffee Break with <b>Poster &amp; Exhibition</b>  |
|                     | <b>EMERGING AOPS I</b><br>Chair: Wolfgang Gernjak   |
| 15:50               | Philipp Sperle  |
| 16:10               | Millaray Sierra Olea  |
| 16:30               | Stefan Schönekerl   |
| 16:50               | Anlin Xu  |
| 17:10               | Daniela Zingaretti  |
| 17:30               | <b>Poster pitches P 04, P 05, P 13, P 14</b><br>Chair: Giacomo Bellandi   |
| 18:00 - 21:00       | <b>Poster Session</b>   |

## Wednesday, 09 April 2025

| Max-Buchner-Hörsaal |   |
|---------------------|---|
| 08:45               | <b>PLENARY LECTURE</b><br>Modelling and digital twins to accelerate AOP market breakthrough: from idea to global application<br><b>Wim Audenaert</b><br>Chair: Uwe Hübner |
|                     | <b>EMERGING AOPS II</b><br>Chair: Uwe Hübner  |
| 09:30               | Marta Ganzer  |
| 09:50               | Daisuke Minakata  |
| 10:10               | <b>Poster pitches P 16, P 20, P 21</b><br>Chair: Uwe Hübner   |
| 10:30               | Coffee Break with <b>Poster &amp; Exhibition</b>  |
|                     | <b>TRANSFORMATION AND RISK ANALYSIS</b><br>Chair: Wim Audenaert   |
| 11:00               | <b>KEYNOTE LECTURE</b><br><b>Giorgio Bertanza, Roberta Pedrazzani</b>   |
| 11:30               | Cheng Cheng   |
| 11:50               | Yide He   |
| 12:10               | Lunch with <b>Poster &amp; Exhibition</b>   |
| 13:30               | <b>INDUSTRIAL WASTEWATER TREATMENT</b><br>Chair: Stefan Neumann   |
|                     | <b>KEYNOTE LECTURE</b><br>Jochen Schumacher   |
| 14:00               | Mohd Salim Mahtab   |
| 14:20               | Jan Hennigs   |
| 14:40               | Hanene Akrouf   |
| 15:00               | Lisa Rouviere   |
| 15:20               | Coffee Break with <b>Poster &amp; Exhibition</b>  |
|                     | <b>NEW SOLUTIONS FOR CATALYTIC OXIDATION</b><br>Chair: Giorgio Bertanza   |
| 15:50               | Salatiel Wohlmut da Silva   |
| 16:10               | Yunhai Zhang  |
| 16:30               | Cezar Florin Catrinescu   |
| 16:50               | Aleksandra Kulic Mandic   |
| 17:10               | <b>General Assembly SG AOP</b>  |
| 19:00               | <b>Conference Dinner</b>  |

## Thursday, 10 April 2025

| Max-Buchner-Hörsaal |   |
|---------------------|---|
| 08:45               | <b>PLENARY LECTURE</b><br>Treatment technologies & concepts to manage PFAS and Emerging Contaminants in the water cycle – a Review<br><b>Achim Ried</b><br>Chair: Sylvie Baig |
|                     | <b>NOVEL SOLUTIONS FOR PFAS REMOVAL I</b><br>Chair: Sylvie Baig   |
| 09:30               | Emma Fantin   |
| 09:50               | Myriam Kellou   |
| 10:10               | Srishti Singh   |
| 10:30               | Coffee Break with <b>Poster &amp; Exhibition</b>  |
|                     | <b>NOVEL SOLUTIONS FOR PFAS REMOVAL II</b><br>Chair: Renato Dantas  |
| 11:00               | Baptiste Mathon   |
| 11:20               | Benjamin Wriedt   |
| 11:40               | Dushanthi Wanninayake   |
| 12:00               | <b>Poster Awards</b>  |
| 12:10               | Lunch with <b>Poster &amp; Exhibition</b>   |
| 13:30               | <b>IMPLEMENTING THE URBAN WASTEWATER TREATMENT DIRECTIVE</b><br>Chair: Sven-Uwe Geißen  |
|                     | <b>KEYNOTE LECTURE</b><br>Sylvie Baig   |
| 14:00               | Wim Audenaert   |
| 14:20               | Arnoud de Wilt  |
| 14:40               | Maximilian Werner   |
| 15:00               | Renato Dantas   |
| 15:20               | Coffee Break with <b>Poster &amp; Exhibition</b>  |
| 15:50               | <b>CLOSING LECTURE</b><br>History and Application of AOP-Processes in the Chemical Industry<br><b>Stefan Neumann</b><br>Chair: Achim Ried                                     |
| 16:20               | <b>Closing Ceremony</b>   |
| 16:50               | <b>End of Conference</b>  |