

Agenda of the 2. ComBioCat Symposium

"Catalysis Across Borders"

Monday, Oct. 18, 2021

08:45 a.m. Welcome (Jennifer Strunk)
(CEST)

Session 1 (chair: Jennifer Strunk)

08:55 a.m. Harald Gröger (Univ. Bielefeld): "Chemoenzymatic processes as alternative routes for the conversion of biorenewables into industrial chemicals"

09:50 a.m. Nor Aishah Saidina Amin (Universiti Teknologi Malaysia): "Mechanistic study of carbon-doped anatase TiO₂ coated on monolith for enhancing photocatalytic reduction of carbon dioxide to fuels"

10:45 p.m. COFFEE BREAK

11:00 a.m. Jan-E. Bäckvall (Stockholm Univ.): "Biomimetic Catalysis in Green Organic Transformations"

11:55 a.m. Annemie Bogaerts (Univ. Antwerp): "Plasma and plasma catalysis for CO₂, CH₄ and N₂ conversion: Experiments and modeling"

12:50 p.m. LUNCH BREAK

Session 2 (chair: Esteban Mejía)

02:00 p.m. Frank Hollmann (TU Delft): "Peroxygenases as the new P450 monooxygenases. Scope, current limitations and solutions"

02:55 p.m. Todd Hyster (Cornell Univ.): "Photoenzymatic Catalysis - Using Light to Reveal New Enzyme Functions"

03:50 p.m. COFFEE BREAK

04:05 p.m. Amanda J. Morris (Virginia Tech): "Insights into light-driven water oxidation by metal-organic framework arrays"

05:00 p.m. END OF 1st DAY

Tuesday, Oct. 19th, 2021

Session 3 (chair: Johannes de Vries)

- 09:00 a.m. Stephan Hammer (Univ. Bielefeld): "New catalytic reactions by directed enzyme evolution"
- 09:55 a.m. Alexander Lammers (Univ. Greifswald): "How to upcycle rice waste? An antimicrobial story."
- 10:15 a.m. Shasha Zheng (LIKAT): "Aromatic Compounds from 5-hydroxymethylfurfural (5-HMF)"
- 10:35 p.m. COFFEE BREAK
- 10:50 a.m. Thomas Ward (Univ. Basel): "Artificial Metalloenzymes for in vivo Catalysis: Challenges and Opportunities"
- 11:45 a.m. Peter Deuss (Univ. Groningen): N. N.
- 12:40 p.m. LUNCH BREAK

Session 4 (chair: Sebastian Wohlrab)

- 01:45 p.m. Guido Mul (Univ. Twente): "Photocatalyst synthesis by design: what are future opportunities?"
- 02:40 p.m. Bert Weckhuysen (Univ. Utrecht): "Perspectives for the Catalytic Valorization of Plastic Waste and CO₂"
- 03:35 p.m. END OF 2nd DAY

Organized by Leibniz ScienceCampus ComBioCat.

Participation is free of charge and possible without registration.

Access via Zoom (please log in with your full name):

Oct. 18th <https://uni-rostock-de.zoom.us/j/66791469240?pwd=V1FyejBQaFp2bGNsV2xBWVdPd05lQT09>

Oct. 19th <https://uni-rostock-de.zoom.us/j/62909609836?pwd=aEVpUVFJKzJPOWdmtWa2U2VmUxdz09>

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