

Einladung zum GDCh-Colloquium des Ortsverbandes Hannover

Das Colloquium findet um 17c.t. im **Dr.-Oetker Hörsaal (Raum 007, Geb. 2504)** der Leibniz Universität Hannover, **Physikalische Chemie, Callinstraße 3A**, 30167 Hannover statt.

16.07.2026 **Prof. Dr. Christopher Teskey**, Technische Universität Braunschweig,
Institut für Physikalische Chemie

Cobalt catalysis under the spotlight

Hydrofunctionalisation represents a powerful approach for transforming simple unsaturated substrates into complex three-dimensional molecules. Achieving this requires precise control of regiochemistry and chemoselectivity, which can be facilitated by metal hydride catalysis. This lecture will highlight how structurally distinct cobalt hydrides can promote hydrofunctionalisation with contrasting selectivities *via* divergent mechanistic pathways. Visible-light irradiation can be harnessed to modulate selectivity^[1,2] and also unlock new modes of reactivity,^[3-8] thereby expanding the synthetic toolbox of cobalt-catalysed organic transformations.



[1] Beltran, F.; Bergamaschi, E.; Funes-Ardoiz, I.; Teskey, C. J. *Angew. Chem. Int. Ed.* 2020, 59, 21176.

[2] Bergamaschi, E.; Lunic, D.; Teskey, C. J. *Angew. Chem. Int. Ed.* 2022, 61, e202114482.

[3] Bergamaschi, E.; Mayerhofer, V. J.; Teskey, C. J. *ACS Catal.* 2022, 12, 14806.

[4] Qin, J.; Barday, M.; Jana, S.; Sanosa, N.; Funes-Ardoiz, I.; Teskey, C. J. *Angew. Chem. Int. Ed.* 2023, 62, e202310639

[5] Mayerhofer, V. J.; Lippolis, M.; Teskey, C. J. *Angew. Chem. Int. Ed.* 2024, 63, e202314870.

[6] Zhou, H.; Lunic, D.; Sanosa, N.; Sampedro, D.; Funes-Ardoiz, I.; Teskey, C. J. *Angew. Chem. Int. Ed.* 2025, 64, e202418869

[7] S. Jana, D. A. Kusza, N. Vystavkin, D. Lunic, C. J. Teskey *Chem. Sci.* 2026, 17, 1098–1104

[8] J. Qin, L. Popek, M. Wyrski, C. J. Teskey *Angew. Chem. Int. Ed.* 2026, 65, e202525790

Prof. Dr. Jens-Uwe Grabow
Vorsitz OV Hannover

Vor dem Colloquium findet ab ca. 16 c.t. eine ‚Kaffeerunde‘ mit dem Vortragenden in der **Bibliothek des Instituts für Physikalische Chemie, Callinstraße 3A** statt.