



Münchner Physik- Kolloquium

sommer
2018

Artificial photosynthesis with functional semiconductors and nanosystems

Prof. Dr. Ian D. Sharp, *Walter-Schottky-Institut and Physik-Department, Technische Universität München*

Monday, 14 May 2018, 17:15 h

Hörsaal H 030, Fakultät für Physik der LMU, Schellingstraße 4, München

The capture of sunlight and its direct conversion to chemical fuels in artificial photosystems provides a promising route for sustainably meeting future energy demands. While functional systems comprising semiconductors coupled to catalysts have been demonstrated, progress has been hindered by a lack of materials that are both stable and efficient. Here, opportunities for creating new functionality via nanoscale engineering of semiconductor/catalyst interfaces, the development of new transition metal-based semiconductors, and discovery of basic mechanisms of energy conversion and efficiency loss will be discussed.

Student event: Meet the speaker

We invite you to a **student-only** discussion-round with Prof. Dr. Ian D. Sharp before his Munich Physics Colloquium talk.

Be curious and feel free to ask any question.

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Room H 522 (5th floor), Fakultät für Physik der LMU, Schellingstraße 4, München

