

DESIGNING NEW MATERIALS FOR SOLAR ENERGY CONVERSION

FRANZ J. HIMPSEL

University of Wisconsin,
Madison, USA

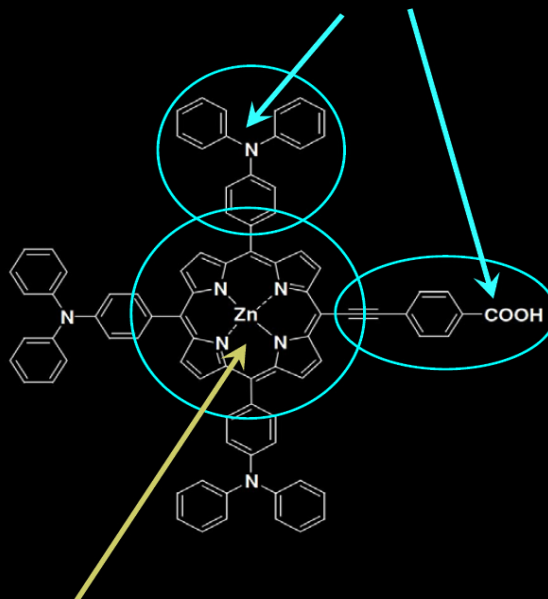
After introducing general aspects of photovoltaics this talk will illustrate how spectroscopy with soft X-rays can help developing new materials and new designs for solar cells. Starting with the most general layout of a solar cell, the focus will be on combining its three components with atomic precision into one molecular complex. A dream experiment will be discussed where the movement of photo-generated carriers through such a complex is tracked in real time at the latest X-ray sources.

FRIDAY,
27.05.2016

2:00 PM

CFEL
SEMINAR ROOMS I-III

**Probe the carriers on their
way out with soft X-rays.**



Pump the center with visible.