



next generation solar energy conference
Dec. 6th-8th 2021
Boulder, USA & Nuremberg, Germany



Free registration at www.ngse.info/registration-ngse-6/

Full Program

UTC +1 (UTC -7)	Monday Dec. 6th	Tuesday Dec. 7th	Wednesday Dec. 8th
16:00-16:15 (8:00-8:15)	Welcome NGSE Introduction		
16:15-17:05 (8:15-9:05)	Tutorial 1: Jenny Nelson (Imperial College London) Detailed balance principle and the limits to efficiency of organic solar cells	Tutorial 3: Neil Greenham (University of Cambridge) Singlet fission – from spin physics to photon multipliers	Invited talks: Bruno Ehrler (AMOLF) Carrier Multiplication to Enhance Solar Cell Efficiency
17:05-18:05 (9:05-10:05)	Invited talks: Thomas Kirchartz (Forschungszentrum Jülich) Defect densities and charge carrier lifetimes in lead-halide perovskites Osbel Almora Rodriguez (Universitat Jaume I) Emerging-PV reports: to the detailed-balance limit and beyond	Invited talks: Rik Tykwinski (University of Alberta) Taming singlet fission with acene oligomers Felix Castellano (NC State University) Molecular Approaches in Photochemical Upconversion	Christopher Kay (Saarland University) Single fission in thin films of pentacene doped into p-terphenyl studied by EPR spectroscopy Anna Tröger (Wiley-VCH) Open Research, Open Access, and Data Management
18:05-18:20 (10:05-10:20)	Break	Break	Break
18:20-19:10 (10:20-11:10)	Tutorial 2: Arthur Nozik (NREL) Ultra-High Efficiencies for Converting Solar Photons into Photovoltaics and Solar Fuels based on Quantization Effects in Nanostructures and Singlet Fission	Invited talks: Sandrine Heutz (Imperial College London) Materials-based strategies to elucidate singlet fission mechanisms in molecular thin films	Tutorial 4: Sean Shaheen (University of Colorado Boulder)
19:10-20:10 (11:10-12:10)	Invited talks: Matt Beard (NREL) Mike Toney (University of Colorado Boulder) Static and dynamic local order in metal halide perovskites	Xiaoyang Zhu (Columbia University) Dynamic Screening in Anharmonic Semiconductors Ming Lee Tang (The University of Utah) A hybrid organic-nanocrystal excitonic state with triplet character for energy conversion	Invited talks: Victor Klimov (Los Alamos National Laboratory) Ultrafast spin-exchange Auger interactions for advanced photoconversion Shanhui Fan (Stanford University) Non-reciprocal thermal radiation and the ultimate limit of solar energy harvesting
20:10-20:30 (12:10-12:30)			Closing NGSE6 Transfer to NGSE-LatAm