

Agenda

9:00	Greetings <i>M. Jarrar, Director R&D / M&D Powergen & Process at Vallourec</i>
9:05	RAISELIFE project overview <i>Florian Sutter, DLR</i>
09:20	Durability of solar reflectors for CSP <i>(12min per presentation)</i> <ul style="list-style-type: none">• <i>A. Attout (AGC Glass Europe): "Mirror developments from AGC for the CSP market"</i>• <i>B. Esser (Sherwin Williams): "Anti-corrosion principles of protective paint layers"</i>• <i>F. Wiesinger (DLR): "Erosion of glass mirrors in desert environment"</i>• <i>F. Buendía-Martínez (CIEMAT): "Lifetime prediction of primary mirrors: UV degradation and corrosion."</i>• <i>S. Lakhoul (MASCIR): "Corrosion of solar glass reflectors under a humid climate"</i>• <i>A. Heimsath (Fraunhofer): "Testing of sandwich heliostat mirrors - degradation and shape accuracy with temperature and external loads"</i>• <i>D. Mandler (Hebrew University of Jerusalem): "Anti-soiling coatings: why and how?"</i>• <i>J. Wette (DLR): Durability and efficiency of anti-soiling coatings for primary mirrors.</i>• <i>S. Gledhill (Fraunhofer): "High Temperature Silver Coatings for Secondary Reflector Applications"</i>• <i>A. Fernández-García (CIEMAT): "Testing of secondary mirrors"</i>
11:20	Coffee break
11:45	Absorber coating durability <i>(15min per presentation)</i> <ul style="list-style-type: none">• <i>Y. Binyamin (BrightSource): "Non-selective absorber coating developments for solar towers in RAISELIFE"</i>• <i>C. Hildebrandt (Fraunhofer): "Optimisation of the selective absorber coating for central receivers"</i>• <i>S. Chrobot (Vallourec): „Manufacturing process of welded tubes - Solar tower receivers application"</i>• <i>S. Caron (DLR): „Durability testing of second generation receiver coatings"</i>• <i>S. Magdassi (Hebrew University of Jerusalem): "Selective absorber coatings based on carbon nanotubes for line focussing receiver tubes"</i>
13:00	Lunch
14:00	Durability issues related to Molten Salt <i>(12min per presentation)</i> <ul style="list-style-type: none">• <i>C. Oskay (DECHEMA): "Influence of impurities in solar salt on the corrosion behaviour of different alloys and weldings"</i>• <i>T.M. Meißner (DECHEMA): "Solubility of pure metals in solar salt as a factor for coating development"</i>• <i>A. Agüero (INTA): "Long term performance of aluminide coatings in contact with molten Solar Salt at 580° C in CSP plants"</i>• <i>A. Agüero (INTA): "Increasing the efficiency of CSP plants: Behaviour of Fe- and Ni-Aluminide coatings in contact with molten carbonates at 650°C"</i>• <i>F.J. Pérez-Trujillo (UCM): "Electrochemical impedance spectroscopy: An efficient technique for monitoring corrosion processes in molten salt environments for Solar Tower Plants"</i>
15:00	World Café - Coffee Break <p>Core questions related to life-time of functional CSP materials will be discussed in small groups while having the coffee break.</p>
16:00	Impact of degradation on plant performance and economics <i>(15min per presentation)</i> <ul style="list-style-type: none">• <i>R. Uhlig (DLR): "Material requirements for receiver designs with secondary reflectors"</i>• <i>T. Zoschke (Fraunhofer): "Techno-economic optimization of recoating intervals for solar tower receivers"</i>
16:30	End
