

# Agenda

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

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