

Agenda

9:00 **Welcome: RAISELIFE project overview**

Florian Sutter (DLR)

09:30 **Durability of solar reflectors for CSP**

Johannes Wette (DLR), Arantxa Fernandez (CIEMAT)

- *09:30 Research on mirrors at OPAC laboratory: accelerated aging and outdoor exposure both for primary and secondary mirrors (Johannes Wette, DLR, and Aránzazu Fernández-García, CIEMAT)*
 - *09:50 R+D Advances in special coatings and testing from the point of view of a primary mirror manufacturer (Jürgen Fechter, Flabeg)*
 - *10:05 R+D Advances in light-weight heliostats and secondary concentrators from the point of view of a plant developer (Yaniv Binyamin, BSII)*
 - *10:20 Assessment of solar reflector degradation and soiling in the solar field (Anna Heimsath, Fraunhofer)*
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10:30 Coffee break

11:00 **Absorber coating durability**

Yaniv Binyamin (BrightSource)

- *Y. Binyamin: „Central Tower Receiver High Solar-Absorptivity Coatings, from R&D to O&M”*
 - *C. Landier: „Manufacturing of Steel Tubes“*
 - *C. Hildebrandt: “Sputtered selective coatings for solar thermal power plants”*
 - *A. Agüero, R. Muelas, P. Gallego, L. Angurel “Oxidation and corrosion resistant coating with high absorbance deposited by HVOF thermal spray. Effects of coatings post-treatments in enhancing the absorbance.”*
 - *R. Reoyo-Prats: "Solar accelerated aging test on different coatings : evolution of the absorptivity (first results), and next characterization planed"*
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12:00 **Durability issues related to Molten Salt**

Francisco Javier Pérez Trujillo (Universidad Complutense)

- *A. Dorcheh, D. Fähsing, M. Galetz “Molten salt corrosion behavior of ferritic steels, austenitic steels, and Ni-base alloys in solar energy applications”*
 - *F.J. Pérez, M.I. Lasanta, V. Encinas-Sánchez, M.T. de Miguel, G. García-Martín: “Dynamic & static test in molten salts for solar power concentration plants”*
 - *A. Agüero: “Corrosion testing of aluminide slurry coating in molten nitrates for heat storage in concentrated solar power plants”*
 - *J. Preußner: „Mechanical tests with quasi static and dynamic loads in liquid molten salts”*
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13:00 Lunch

14:00 **Impact of degradation on plant performance and economics**

Thomas Fluri (Fraunhofer ISE)

- *Anna Heimsath (Fraunhofer ISE): Assessing the impact of component degradation on the techno-economic performance of CSP plants*
 - *Giselle Nunes-Cordes (Suntrace GmbH): Component degradation: how do investors and banks look at it?*
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- *Francisco J. Pérez (UCM): LCA for CSP plants*
 - *Ralf Uhlig (DLR): Influence of different absorber coatings on efficiency of external molten salt receivers*
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15:00 Coffee Break

15:30 **Discussion session in 2 parallel groups: Solar reflectors and Molten Salt**

Each session leader will prepare a set of central questions which will be discussed by the groups.

16:30 **Discussion session in 2 parallel groups: Absorbers and Impact of degradation**

Each session leader will prepare a set of central questions which will be discussed by the groups.

17:30 **Final session – summary**

Session leaders will summarize the outcomes of discussions of the individual groups.

18:00 **End**
