



Poster session introduction

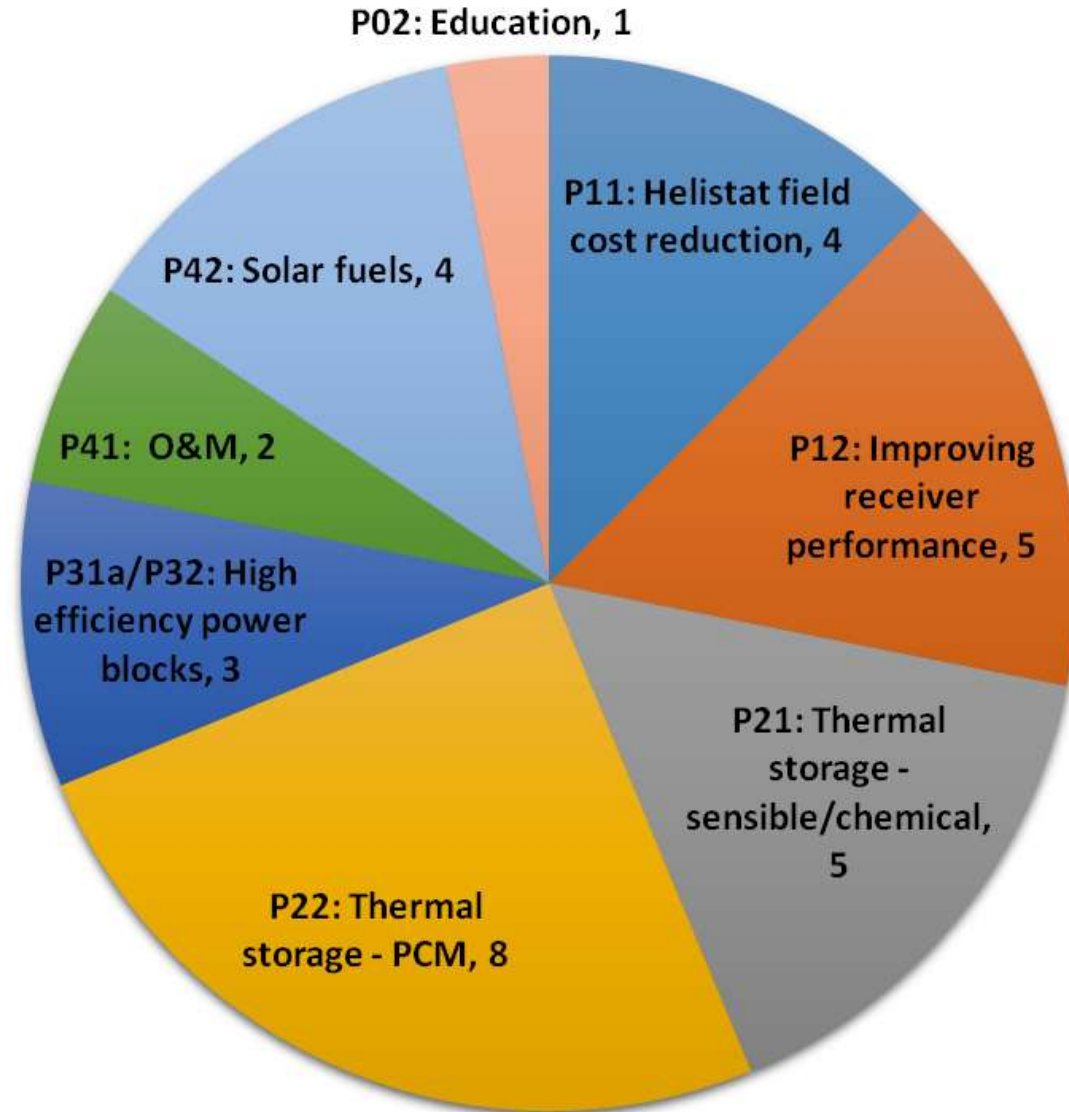
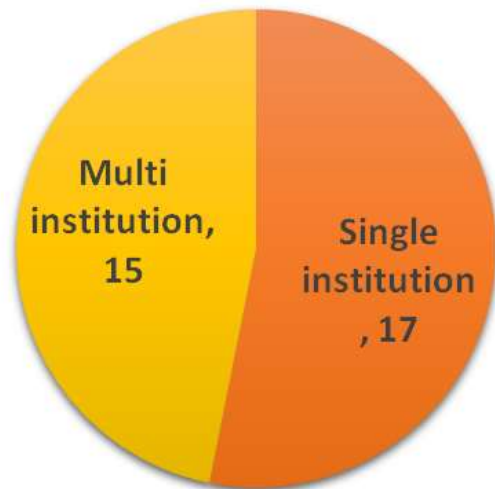
ASTRI Symposium on The Future of Concentrating Solar Thermal Technology

Joe Coventry | ASTRI Project Leader

2 May 2016

Snapshot

- 32 posters
- 91 contributors



Discover ...

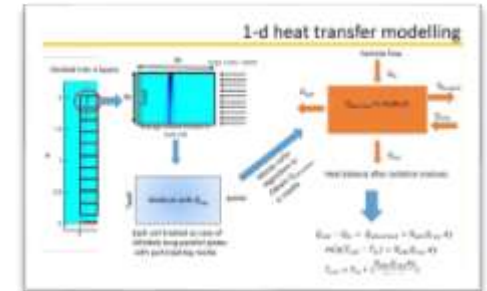
P11

... why our heliostat wind tunnel studies, CFD modelling and knowledge of wind gusting in the atmospheric boundary layer will result in heliostat capital cost reduction [Yu et al., Emes et al.]



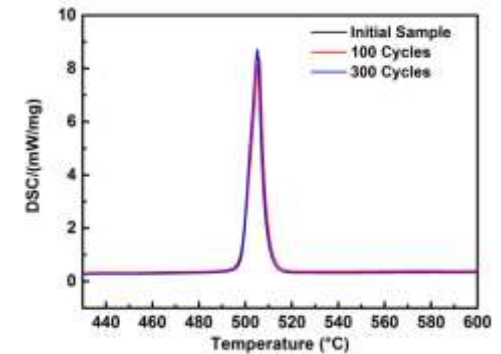
P12

... how by simulating a simple free falling particle receiver concept we have discovered a novel way of improving solar absorptance while achieving more uniform particle heating [Kumar et al.]



P22

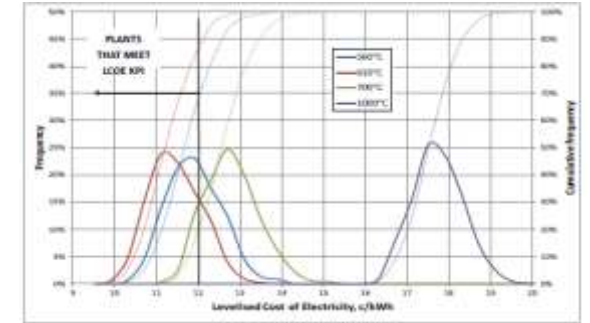
... why phase change materials based on eutectic mixtures of $\text{Na}_2\text{CO}_3 - \text{NaCl}$ and $\text{Na}_2\text{CO}_3 - \text{Li}_2\text{CO}_3$ show great potential for reducing cost and increasing the capacity factor of thermal energy storage [Jiang et al.]



Discover ...

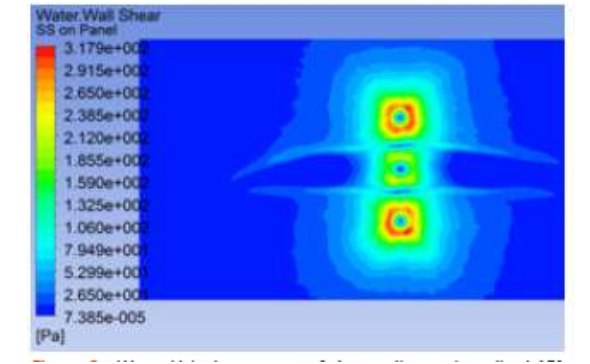
P31a

...what temperature supercritical carbon dioxide Brayton cycle is most likely to achieve the ASTRI technical KPI of 12 c/kWh [Aghaeimeybodi et al.]



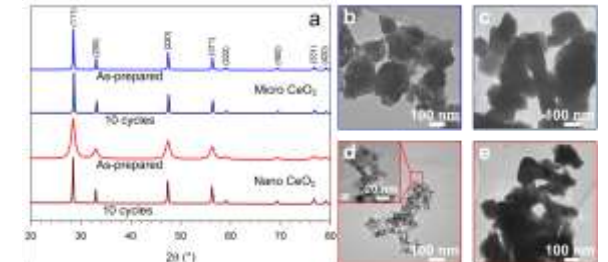
P41

... how the effectiveness of spray cleaning of mirrors can be significantly enhanced by tuning the angle of the water jet and proximity of the nozzle to the mirror [Anglani et al.]



P42

... how using nano-structured ceria in a redox cycle shows can improve the kinetics of syngas production, and how nano-structured ceria can be manufactured in a scalable process using flame synthesis [Gao et al.]



Acknowledgements

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