

# concurrent sessions - SolarPACES

## WEDNESDAY

<b>11.15 am to 11.45 am</b>	<b>SolarPACES OPENING</b>	<ul style="list-style-type: none"> <li>❖ <i>Wolfgang Meike</i>, Chairman, SolarPACES Australia</li> <li>❖ <i>Gary Burch</i>, Team Leader, Concentrating Solar Power Program, Office of Solar Energy Technologies, US Department of Energy</li> <li>❖ <i>Wilfried Grasse</i>, Executive Secretary, SolarPACES Committee</li> </ul>	
<b>11.45 am to 12.45 pm</b> ...continuing..	<b>SOLAR THERMAL ELECTRIC POWER SYSTEMS</b>	Summary of the 10MW Solar Two tests and evaluations - ❖ <i>JE Pacheco</i> , Sandia PS10: A 10MW solar tower power plant for southern Spain - ❖ <i>R Osuna, et al</i> , Inabensa Solar upgrading of fuels for generating of electricity - ❖ <i>U Fisher, et al</i> , Ormat	
<b>2.00 pm to 2.30 pm</b>			
<b>2.30 pm to 3.30 pm</b> <b>SOLAR THERMAL ELECTRIC POWER SYSTEMS</b>	<b>2.30 pm to 3.30 pm</b> <b>MEASUREMENT TECHNIQUES</b>	<b>4 pm to 5.20 pm</b> <b>SOLAR THERMAL CONCENTRATING APPLICATIONS</b>	<b>4 pm to 5.20 pm</b> <b>COMPONENT DEVELOPMENT</b>
Dish solar array combined with existing fossil fuelled steam turbine plant ❖ <i>S Kaneff</i> , ANUTECH  Solar thermal supplementation of a coal fired plant ❖ <i>D Burbidge, DR Mills</i> , Stanwell, USYD  CSP-Africa study ❖ <i>L Van Heerden</i> , Eskom	Measurement of concentrated solar radiation: the calorimeter ASTERIX ❖ <i>A Ferriere, B Rivoire</i> , CNRS  Concentrated solar radiation measurement with video image processing and online fluxgauge calibration ❖ <i>R Lupfert, et al</i> , PSA  Results of the second fluxmeter intercomparison campaign ❖ <i>J Kaluza, et al</i> , DLR	Aluminium production by carbothermal reduction of ore to Al-Si using high-temperature solar process heat ❖ <i>J P Murray</i> , Colarado School of Mines  Economic evaluation of solar produced bulk & fine chemicals ❖ <i>K H Funken, et al</i> , DLR  Solar hybrid methanol production from coal and natural gas ❖ <i>Y Tamaura</i> , Tokyo Institute of Technology	EnerTracer: A new computer tool for energy analysis of concentrating systems ❖ <i>M Blanco; D Alarcon</i> , CIEMAT Weather derivatives - a new risk management solution for solar power plants ❖ <i>R Kistner; M Geyer</i> , DLR-PSA Receiver for solar-hybrid gas turbine and CC systems (REFOS) ❖ <i>R Buck, et al</i> , DLR, PSA Cost-optimized solar gas turbine cycles using volumetric air receiver technology ❖ <i>P Schwarzbozl, et al</i> , DLR

## THURSDAY

<b>11 am to 1 pm</b> <b>SOLAR CHEMISTRY FUNDAMENTALS</b>	<b>11 am to 1 pm</b> <b>COMPONENT DEVELOPMENT - TROUGH PERFORMANCE IMPROVEMENTS</b>	<b>2 pm to 3.30 pm</b> <b>COMPONENT DEVELOPMENT</b>	<b>2 pm to 3.30 pm</b> <b>SOLAR THERMAL ELECTRIC POWER SYSTEMS</b>
Thermal treatment of metallic materials by solar energy: a strategy for the control of the processing ❖ <i>A Ferriere, et al</i> , CNRS  Direct solar thermal splitting of ZnO followed by a quench determination of the rate controlling steps ❖ <i>E Elorza-Ricart, et al</i> , CNRS-ENSIC  Solar production of zinc from zinc ore ❖ <i>A Weidenkaff, et al</i> , University of Augsburg  Back reactions in thermochemical cycle based on carboreduction of ZnO ❖ <i>A Berman; M Epstein</i> , Weizmann Institute  Solar nanostructured carbon materials: the 1MW experiment ❖ <i>T Guillard, et al</i> , CNRS	Dynamic behaviour of the direct solar steam generation in parabolic trough collectors: a simulation study ❖ <i>M Eck</i> , DLR  Results from parabolic trough systems for process heat at the DLR Cologne ❖ <i>D Krueger, et al</i> , DLR  Parabolic trough collector efficiency improvementactivities ❖ <i>T Fend, et al</i> , DLR  Compound-wall receiver for DSG in parabolic troughs ❖ <i>R Almanza, et al</i> , Uni Nacional Autonoma de Mexico	Evaluation of optical parameters of a reflective coating in secondary solar concentrators ❖ <i>S K Suleimanov, et al</i> , Uzbek Academy of Sciences  Solar selectivity of cermets with large particles ❖ <i>C A Arancibia-Bulnes, et al</i> , UNAM  <hr/> <b>4 pm to 5.20 pm</b> <b>SOLAR CONCENTRATING APPLICATIONS</b>  Small, multi-purpose concentrating solar energy systems ❖ <i>J Lovseth</i> , Norwegian Institute of Science & Technology  Design and construction of a solar thermal miniplant ❖ <i>M Sonnenschein, et al</i> , University of Dortmund	Solar Tres: proposal of a solar-only 24-hour operation solar tower plant for southern Spain ❖ <i>P Grimaldi, I Grimaldi</i> , GHERSA  Solar thermal -fossil energy hybrid technology for advanced power generation ❖ <i>J H Edwards, et al</i> , CSIRO  Eurodish - the next milestone to decrease the costs of dish/stirling system towards competitiveness ❖ <i>P Heller, et al</i> , PSA-DLR  Performance of the SES Stirling Dish ❖ <i>KW Stone, et al</i> , Boeing
			<b>4 pm to 5.20 pm</b> <b>POSTER SESSION</b>

## FRIDAY

<b>9 am to 9.30 am</b>	<b>SOLAR CONCENTRATING APPLICATIONS - SOLAR WASTE DETOXIFICATION</b>	<b>The SOLARDETOX<sup>o</sup> technology</b> ❖ <i>J Bianco, et al</i> , CIEMAT-PSA
<b>9.30 am to 10.30 am</b>	<b>SOLAR THERMAL ELECTRIC POWER SYSTEMS</b>	<b>9.30 am to 10.30 am</b> <b>SOLAR CONCENTRATING APPLICATIONS - SOLAR WASTE DETOXIFICATION</b>
Dish-based continuous solar thermal power using ammonia ❖ <i>K Lovegrove, et al</i> , ANU  Direct solar steam generation in parabolic troughs (DISS) - the first year of operation of the DISS test facility on the Plataforma Solar de Almeria ❖ <i>E Zarza; K Hennecke</i> , PSA, DLR  Improving the performance of combined cycles with solar thermal energy ❖ <i>W Stein</i> , Pacific Power	Solar photochemical detoxification of waste water - a comparison matrix for the application of different reactor types ❖ <i>C Sattler, et al</i> , DLR  High temperature solar thermal recycling of aluminium scrap in a directly heated rotary kiln: mini-plant experiments, dynamic simulation, and cost estimation ❖ <i>K H Funken, et al</i> , DLR  Solar thermal recycling of solid waste material ❖ <i>B Schaffner, et al</i> , PSI	Solar photochemical detoxification of waste water - a comparison matrix for the application of different reactor types ❖ <i>C Sattler, et al</i> , DLR  High temperature solar thermal recycling of aluminium scrap in a directly heated rotary kiln: mini-plant experiments, dynamic simulation, and cost estimation ❖ <i>K H Funken, et al</i> , DLR  Solar thermal recycling of solid waste material ❖ <i>B Schaffner, et al</i> , PSI