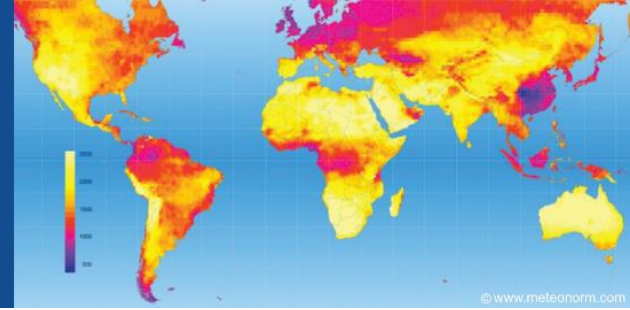


September 27 - October 1, 2021
Online Event

27th SolarPACES Conference



SolarPACES 2021 Online Conference Program

All times are shown in UTC!

Friday, October 01

10:30 FRI-1A: Solar Resource Assessment

Chair: Manuel Silva (University of Seville)

10:30 Characterization of High Frequency Solar Radiation Data According to Köppen-Geiger Climates
Sara Moreno-Tejera, University of Seville

10:45 The Impact of Circumsolar Diffuse Radiation on the Numerical Computation and Forecasting of DNI
Yu Xie, National Renewable Energy Laboratory

11:00 Long-Term Analysis of Satellite Derived Direct Normal Irradiance Over the Korean Peninsula from 1996 to 2019
Chang Kim, Korea Institute of Energy Research

11:15 Use of Multiyear Tool: An Open Tool for the Synthetic Generation of Plausible Meteorological Years of Coupled GHI and DNI with 1-min Resolution
Miguel Larrañeta, Andalusian Association for Research and Industrial Cooperation (AICIA)

10:30 FRI-1B: Solar Industrial Process Heat and Desalination

Chair: Vassiliki Drosou (CRES)

10:30 Integration and Simulation of Solar Thermal Energy Systems to Dairy Processes
Hadi Tannous, Brunel University London

10:45 Material Selection and Prototype Design of a Double-fluid Circulation PCM Storage for SHIP Applications
Pierre Garcia, CEA LITEN

11:00 Simulation and Economic Analysis of an Innovative Compact Linear Fresnel Collector Coupled to Two Industrial Processes with Low and Medium Temperatures
Mario Biencinto, Ciemat- Plataforma Solar de Almería

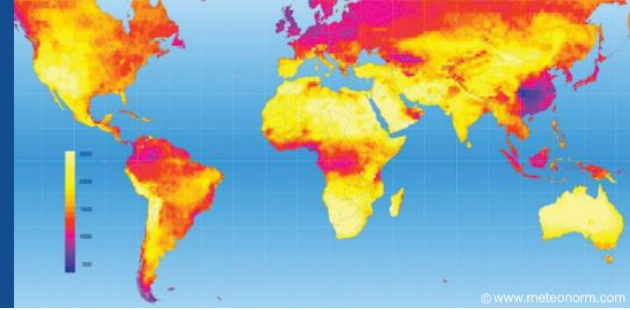
11:15 Simulation of a Linear Fresnel Direct Steam Generation System for Heat Industrial Process
Marco Antonio David Hernández, Universitat Politècnica de València

11:30 Status in Solar Heat from Concentrating Solar Systems
Dirk Krüger, German Aerospace Center

11:45 Thermodynamic Modelling of an Industrial Scale Solar Desalination Plant with Low-Concentration CPC Collectors and Multiple-Effect Thermal Distillation (MED) in India
Eckhard Luepfert, DLR

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10:30 FRI-1C: Emerging and Disruptive Concepts

Chair: Keith Lovegrove (IT Power Group)

10:30 Experimental and Theoretical Investigation on Using Microwaves for Storing Electricity in a Thermal Energy Storage Medium

Margarita Rodriguez-Garcia, Ciemat- Plataforma Solar de Almería

10:45 First of Its Kind 300kWt Semi-Fresnel Fixed Mirror Module; Lessons Learned During Commissioning and Steps Towards Deployment

Cristobal Villasante, TEKNIKER

11:00 Results from the U.S. CSP Generation 3 Liquids Pathway Research

Craig Turchi, National Renewable Energy Laboratory

12:30 *Break - Visit our Sponsors*

13:00 Closing Session

Point Focus Systems (Receivers and Heat Transfer Media and Transport)

John Pye, The Australian National University

Advanced materials, manufacturing, and components

Cristina Prieto, University of Seville

Analysis and Simulation of CSP and Hybridized Systems

Tobias Hirsch, DLR e. V.

Thermal Energy Storage Materials, Media, and Systems

Craig Turchi, National Renewable Energy Laboratory