

Tentative Programme
Fifth International Conference **CONSOLFOOD2023**

Advances in Solar Thermal Food Processing

12-14 July 2023 SOMESO | A CORUÑA-SPAIN

time: local time of A Coruña/Madrid Spain

Day 1 Opening Session (15h45 16h05)	Celestino Ruivo, Juan Bello, Kartikey Gupta, Director Someso	12 th July 2023
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Day 1 Session 1A (16h10 17h26)	Moderators: Michael Bonke, Celestino Ruivo	
Training people in solar thermal food processing for enhancing green economy and ecology	Janak Palta McGilligan	India
Where should we bake bread ?	Benjamin Pillot, Guillaume Guimbretière, Christophe Révillion, Corrie Mathiaka, Romain Authier	France
A new funnel solar cooker design: Funnel Cooker 041	Macías-Fuentes, F.J., Carrillo-Andrés, A., Apaolaza-Pagoaga, X., Rodrigues Ruivo, C.	Spain/Portugal
A solar cooking case study in Kakuma Refugee Camp, Kenya	Alan Bigelow, Caitlyn Hughes, Mindy Fox	USA
Using solar cookers to feed 35 – 50 people per day at the Tamera Community	Hannah Larndorfer	Portugal
Day 1 Session 1A Q/A (17h26 17h46)		

Coffee Break

Day 1 Session 1B (18h06 19h29)	Moderators: Antonio Carrillo Andrés, Celestino Ruivo	
Performance evaluation of a professional cooktop powered by a Scheffler reflector	Gabriel Guillet, Thomas Fasquelle, Séverine Barbosa, Benjamin Kadoch	France
Development of table-type solar cooker	Hideo Oguri (Haru)	Japan
Experimental characterization of a foldable solar cooker with trapezium cooking chamber and adjustable reflectors	Tariku Negash Demissie, Celestino Rodrigues Ruivo, Claudia Paciarotti, Giovanni Di Nicola, Matteo Muccioli, Sebastiano Tomassetti	Italy/Portugal
Performance comparison and experimental validation of four prototypes of panel solar cooker at high temperature	Alessia Aquilanti, Sebastiano Tomassetti, Gianluca Coccia, Matteo Muccioli, Luigi Terra, Elena Dezi, Giovanni Di Nicola	Italy
The Tolokatsin 2022, a sustainable solar oven	Eduardo Rincón Mejía, Eduardo González Mora, Marina Islas Espinoza	Mexico
Characterization of an evacuated tube duplex solar cooker (ETDSC)	Ángel Marroquín de Jesús, Luz Carmen Castillo Martínez, Sandra Soto Álvarez, Juan Manuel Olivares Ramírez	Mexico
Reflections on of one hundred solar cooks from four continents	Luther Krueger	USA
Day 1 Session 1B Q/A (19h29 19h49)		

Solar conference welcome dinner: 20h30

Day 2 (10h00 14h00)

Solar cookers in action, preparing breakfast and lunch, solar degustation for visitors

Day 2 (10h15 10h45)

Solar breakfast for participants

Day 2 (14h00 15h00)

Solar lunch for participants

Day 2 Session 2A (15h45 17h47)	Moderators: Mary Buchenic, Celestino Ruivo	13 th July 2023
Photovoltaic solar cooking with PTC ceramic heaters without batteries	Jean Boubour, Antonio Lecuona-Neumann	France/Spain
Heat storage for cooking: a summary of experiences with direct and indirect solar energy concepts	Ole Jorgen Nydal	Norway
Experimental performance of a finned solar cooking storage pot	Ashmore Mawire, Prince Owusu, Katlego Lentswe	South Africa
Are stainless steel pots suitable for solar cooking?	Daniel Feuermann	Israel
Standardised power values of some tested solar cookers following the linear regression of ASAE S580.1 Standard protocol and the linear regression associated with the Hottel-Whillier-Bliss formulation	Celestino Rodrigues Ruivo, Antonio Carrillo-Andrés, Xabier Apalolaza-Pagoaga	Portugal/Spain
Optical ray-tracing analysis of geometrical variations of a funnel solar cooker	Carrillo-Andrés, A., Apaolaza-Pagoaga, X., Rodrigues Ruivo, C., Jiménez-Navarro, J.P.	Spain/Portugal
Experimental method to investigate the influence of solar altitude on the performance solar cookers	Apaolaza-Pagoaga, X, Carrillo-Andrés, A., Rodrigues Ruivo, C	Spain/Portugal
Community solar cooker using linear Fresnel collector	Antonio Famiglietti, Antonio Lecuona	Spain
Solar cooking in the rural zones of Mexico	Luis Edoardo García Sánchez, María del Carmen Salinas Cortés	Mexico
Day 2 Session 2A Q/A (17h47 18h07)		

Coffee Break

Day 2 Session 2B (18h27 19h46)	Moderators: Octavio García Valladares, Celestino Ruivo	
Thermal evaluation of a mixed tunnel type solar dehydrator under different operating conditions	O. García-Valladares, D. Hernández Tamayo, J.R. Pérez Espinosa	Mexico
CFD modeling and the performance evaluation of a mixed-mode forced convection solar tunnel dryer for curry and coriander leaves	Bhanudas B.Takale, Ranjit S. Patil	India
A case for including solar dehydrators in food processing	P.B. Silva, B. Farrero, L.F. Ribeiro	Portugal
Dehydrated fish waste for biofertilizers	Castillo-Téllez, Beatriz, Castillo Téllez Margarita, Mejía-Pérez Gerardo Alberto, Martin del Campo Martha Fabiola, Domínguez Niño Alfredo, Vega-Gómez Carlos Jesahel	Mexico
Design and construction of a solar dryer with hybridization of solar technologies for drying fish	Margarita Castillo Téllez, Beatriz Castillo Téllez, Alfredo Domínguez Niño, Gerardo Mejía Pérez, Juan E. Andrade Durán	Mexico
Thermofluids' issues of modeling a flat plate solar air heating collector (SAHC) with sensible thermal energy storage (TES) for drying in an energy-vulnerable environment	Antonio Lecuona-Neumann	Spain
Day 2 Session 2B Q/A (19h46 20h06)		

Main solar conference dinner: 20h30; 22h00 (Galician show " A queimada" by Juan Bello)

Day 3 (10h00 14h00)

Day 3 (10h15 10h45)

Day 3 (14h00 15h00)

Day 3 Session 3A (15h45 17h39)	Moderators: Ranjit S. Patil, Celestino Ruivo	14 th July 2023
From small SK14 parabolic solar concentrator to 500 m2 dual axis dish solar concentrator	Deepak Gadhia	India
Use of a Scheffler-type solar concentrator for processing Licuri pulp as an alternative to conventional fuels	Pedro Henrique Campello Santos; Tiago Batista Cerqueira; Célio Dantas de Santana; Alexandre Boleira Lopo; Gertrudes Macário de Oliveira; Márcia Virginia Pinto Bonfim; Deborah Santos Garruti, Fábio del Monte Cocozza	Brazil
General social attitude towards solar thermal food processing in North Rajasthan	Kartikey Gupta	India
Photovoltaic direct (no battery) cooking	Larry Schlussler	USA
Design and performance of an innovative solar cooker with equatorial tracking	Bibiloni-Mulet, Pere Antoni; Vidal-Noguera, Jacinto; Canals, Vincent; Alonso, Iván; Moia-Pol, Andreu; Martínez-Moll, Víctor	Spain
The solar cooking ambassador program in Oaxaca, Mexico: 5-year evaluation	Lyman, S., Harp-Iturribarria, L.	USA/Mexico
Low cost intelligent vegetable dehydration with optimization of solar thermal and photovoltaic energy	J. Garcia, J. Pássaro, L. Coelho	Portugal
Technical-economical analysis of the thermosolar plant drying different agricultural products	O. García-Valladares, A.L. César Munguía, A. Domínguez Niño, J.R. Pérez Espinosa	Mexico
Day 3 Session 3A Q/A (17h39 17h59)		

Coffee Break

Day 3 Session 3B (18h19 19h41)	Moderators: Luther Krueger, Celestino Ruivo	
Sustainable/creative tourism: a way to disseminate the virus of solar cooking	Paulo Pinto	Portugal
Direct solar oven: sustainable for taste and health	A.Varesano, D. Tofani, T. Gasperi, S.S. Moeini, E. Mattoni	Italy
Solar cooking as a higher education gateway towards global engagement, responsibility, and repair	Riad Bahhur, Tom Cappelletti, Mary Buchenic, Jennifer Gasser, Stefan Karneback, Sharon Clausson, Craig Bergland, and Luther Kreuger	USA
Stem through solar cooking – students and teachers engage with solar cooking themed-based learning	Mary Buchenic, Jennifer Gasser	USA
Assessment for solar e-cooking at the productive use in rural african markets using standalone solar (PURAMS) project	Simões T., Banda S. , Wacera A. , Chepkorir S.B. , Oribo N. , Cardoso J.P. , Costa P.A. , Couto A., Facão J., Loureiro D., Rodrigues C.	Portugal/Kenya
Solar-thinking seeds, How to introduce the use of solar cooking in the vegetable garden in the school	Irene Lucas	Austria
Day 3 Session 3B Q/A (19h41 20h01)		

Day 3 Closing Session (20h10 20h30)	Celestino Ruivo, Juan Bello, Deepak Gadhia, Octavio García Valladares, Director Someso	
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Solar farewell conference dinner: 20h45