

Third International Conference **CONSOLFOOD**2020

>Advances in Solar Thermal Food Processing

Faro (Portugal) 22-23-24 January 2020

Day 1: 22nd January 2020

Opening Session; 14h15-14h45

Session 1 , 22 Jan; Moderator: Patricia Mcardle

14:45	SUNPOD - AN ORAL HISTORY OF SOLAR COOKING	M. Bonke	Germany
15:15	OVERCOMING HURDLES TO SOLAR COOKING BY DESIGNING FOR DIVERSITY OF COOKING STANDARDS	S. Karneback et al.	Sweden
15:45	AT YOUR CONVENIENCE: WHICH SOLAR COOKERS ARE MOST CONVENIENT?	S. Maclachlan et al.	UK
15:55	SPREADING THE SOLAR COOKING VIRUS: SOME ATTEMPTS TO RAISE AWARENESS IN THE UK.	D. Oxford et al.	UK
16:05	PHOTOVOLTAIC SOLAR COOKER WITH NO BATTERIES USING ADVANCED ELECTRONICS	A. Lecuona-Neumann et al.	Spain

Long Break ; 16h15-17h00

Session 2; Moderator: Manoj Soni

17:00	LESSONS LEARNED FROM APPLIED SOLAR COOKING IN COMMUNITY TAMERA/PORTUGAL	F. Klapper et al.	Portugal
17:30	ANALYSIS OF THE THERMAL BEHAVIOR OF A TUNNEL-TYPE DRYER WITH HYBRIDIZATION OF SOLAR TECHNOLOGIES	M. Castillo et al.	México
18:00	FIGHTING THE CLIMATE CRISIS THROUGH EDUCATION: USING SOLAR COOKING TO TEACH BIOCLIMATIC DESIGN AND OTHER ECOLOGICAL TOPICS	J. Bello Llorente	Spain
18:10	RAYTRACING OPTICAL ANALYSIS OF A SOLAR FUNNEL COOKER	A. Carrillo-Andrés et al.	Spain
18:20	THERMO-OPTICAL PERFORMANCE OF A SOLAR FUNNEL COOKER	A. Carrillo-Andrés et al.	Spain
18:30	EXPERIMENTAL PLATFORM OF SOLAR COOKERS AND OVENS AT THE TECHNICAL HEADQUARTERS UTFSM.	P. Serrano	Chile

Announcements; 18h40-18h50

Day 2: 23rd January 2020

Session 3, Moderator: Eduardo A. Rincón Mejía

09:00	SOLAR DRYING IN NIMAR REGION OF MADHYA PRADESH STATE OF INDIA- LEADING BY EXAMPLE.	R. Deosthale et al.	India
09:30	SEMI-ACTIVE SOLAR DRYING AS A VALUE-ADDED POST-HARVEST TREATMENT FOR PLANT TISSUES	D. Bogosavljević et al.	Portugal
10:00	A PARABOLIC SOLAR COOKING DEVICE DEVELOPED IN LESOTHO, SOUTHERN AFRICA.	I. Yaholnitsky	Lesotho
10:30	FIELD TRIAL TO DETERMINE THE CAPACITY OF A SINGLE PERSON TO MANUALLY MAINTAIN MULTIPLE FOCUSED BEAMS ON A SINGLE TARGET	A. Wilson	Australia
10:40	SOLAR COOKING IN THE CANADIAN ARCTIC	K. Dohring	Canada
10:50	BOX COOKER GLAZINGS: SLOPED OR HORIZONTAL? A STUDY OF THE OPTICAL EFFICIENCY	D. Feuermann	Israel
11:00	UPDATE ON NETWORKING TO ADVANCE THE USE OF SOLAR COOKERS AS EDUCATIONAL TOOLS IN THE CLASSROOM	J. Gasser et al.	USA

Break ; 11h10-11h50

Session 4, Moderator: Ivan Yaholnitsky

11:50	EXPERIMENTAL EVALUATION OF THE TOLOKATSIN V SOLAR OVEN	E. Rincón et al.	Mexico
12:20	SUNSTORE COOKER – A BATTERY TYPE SOLAR COOKER CHARGED BY AN AUTOMATED SUN TRACKING SYSTEM	A. Ishibashi et al.	Denmark
12:50	SOLAR COOKERS AS COMPLEMENT IN TRADITIONAL RESTAURANTS	P. Serrano	Chile

Lunch; 13h20-14h30

Session 5, Moderator: Talal Al-Shikaili

14:30	DESIGN & DEVELOPMENT OF NOVEL SOLAR STILL FOR PRODUCTION OF POTABLE WATER	M. Soni	India
15:00	SOLAR DRYING OF NOPAL (OPUNTIA FICUS-INDICA) USING DIRECT TECHNOLOGIES	L. Medina et al.	México
15:30	DESIGN, CONSTRUCTION AND COMPARISON OF SOLAR VACUUM DRYER AND CONVENTIONAL SOLAR CABINET TYPE DRYER	R. Martínez et al.	México
16:00	MATHEMATICAL MODELING OF NATIVE MAIZE DRYING	B. Castillo et al.	México
16:10	HIGH TEMPERATURE SOLAR COOKING SYSTEM WITH A PCM ENERGY STORAGE UNIT	O. Alves et al.	Portugal
16:20	EXPERIMENTAL TESTING OF A SOLAR BOX COOKER WITH THERMAL ENERGY STORAGE BASED ON XYLITOL	G. Di Nicola et al.	Italy

Break ; 16h30-17h00

Session 6, Moderator: Armando Inverno

17:00	COOKING WITH STORED SOLAR ENERGY	S. Segaran et al.	UK
17:20	PROMOTING SOLAR COOKING IN NORTHERN SRI LANKA	S. Segaran et al.	UK
17:30	HYBRID SOLAR OVEN – LIMITED OR LIMITLESS	D. Chalker	USA
18:00	USING A HEAT TRAP, INSULATION AND HEAT SINKS TO ATTEMPT A PIZZA OVEN CHALLENGE WITH A 1.8m PARABOLIC REFLECTOR AT LATITUDE 32S	A. Wilson	Australia

*Announcements; 18h30-18h40**Break ; 18h40-19h30*

Conference Dinner, 23 Jan; 19h30-21h30

Day 3: 24th January 2020*Announcements; 9h00-9h10*

Session 7, Moderator: Cristina Silva

09:10	PASSIVE SOLAR COLLECTOR FOR INDIRECT SMALL-SCALE DRYER	A. Lecuona-Neumann et al.	Spain
09:40	MODELING AND DEVELOPMENT OF A SOLAR POWERED DATES DRYER	T. AL-Shikaili et al.	Sultanate of Oman

Breakout Sessions, 10h10-11h10 (Rooms: *Anfiteatro; Sala 92; Sala 95; Sala 156*)

Session 8 ^a	SOLAR COOKING SYSTEMS INTEGRATING PHASE CHANGE MATERIALS FOR ENERGY STORAGE (topic suggested by organizing committee)		
Session 8B	CHALLENGES FOR A SUCCESSFUL DOMESTIC AND COMMUNITY SOLAR COOKING (topic suggested by organizing committee)		
Session 8C	Can we increase the solar cooking diffusion speed by entering new markets? (Topic suggested by participant)		
Session 8D	Topic to be defined/suggested by participants		

Long Break (11h10-11h50)

Session 9, Moderator: Célia Quintas

11:50	PREDICTION OF SOLAR COOKING DYNAMIC CONDITIONS EFFECTS ON DIFFERENT VEGETABLES QUALITY PARAMETERS	C. Gilli et al.	Portugal
12:00	BROCCOLI WASTE VALORISATION THROUGH SOLAR ENERGY	M. Talia et al.	Portugal
12:10	INFLUENCE OF SOLAR PROCESSING ON BROCCOLI (BRASSICA OLERACEA L. SSP. ITALICA) FLORETS PROPERTIES	G. Carrieri et al.	Portugal
12:20	TOWARDS SUSTAINABLE MEDITERRANEAN BAKERY PRODUCTS – TESTING FORMULATIONS WITH SUNDRIED CAROB PULP AND SEED FLOUR (CERATONIA SILIQUA L.)	M. Issaoui et al.	Tunisia
12:30	DRYING FOOD: AN ANCIENT ART MEETS MODERN TECHNOLOGY	Z.Meebed	Egypt

Conference Lunch; 12h50-14h20

Session 10, Moderator: Andy Wilson

14:20	SOLAR COOKER ON URBAN ENVIRONMENT AS A COMPLEMENT FOR LIQUIFIED PETROLEUM GAS COOKING – CASE STUDY ON LAS TUNAS NEIGHBOURHOOD, BUENOS AIRES	M. Semedo	Argentina
14:50	SOLAR COOKERS INTERNATIONAL ENHANCES THE GLOBAL SOLAR COOKING MOVEMENT THROUGH ADVOCACY, RESEARCH, AND STRENGTHENING CAPACITY	C. Hughes et al.	USA
15:10	SHARING THE RESOURCES OF SOLAR COOKERS INTERNATIONAL TO STRENGTHEN THE GLOBAL SOLAR COOKING MOVEMENT	C. Hughes et al.	USA
15:35	PANELBOLIC – AN HYBRID DIY PROJECT OF PANEL AND PARABOLIC SOLAR COOKER	E. Filho	Brazil
15:45	A THREE-DOLLARS CARDBOARD PANEL SOLAR COOKER FOR LOW INCOME COMMUNITIES	E. Filho et al.	Brazil
15:55	STUDY OF MOST EFFICIENT INTERIOR COLORS FOR SOLAR BOX COOKERS	S. Clausson et al.	USA
16:05	THE CHALLENGES OF EVERY-DAY SOLAR COOKING IN COMMUNITY	A. Fernández Torres et al.	Spain
16:15	SOLAR COOKING PASSION	D. Gadhia	India

Special Break (16h25-16h50)

Session 11, Moderator: Stewart Maclachlan

16:50	SOLABUNDANCE - AN AUTONOMOUS SMALL SOLAR POWER STATION FOR AROUND-THE-CLOCK COOKING, COOLING, HEATING AND ELECTRICITY.	J. Kleinwächter	Germany
17:20	SURPRISE LECTURE		

Closing Session 17h55-18h15