

PROGRAM OVERVIEW

Symposium - Unlocking sustainable futures: a comprehensive exploration of solar energy, second-life batteries, and green hydrogen

Symposium - Unlocking sustainable futures: a comprehensive exploration of solar energy, second-life batteries, and green hydrogen			
Tuesday 16th April - venue Eng. Mecânica/UFSC			
Time	Time CEST	Speaker	Institution
09:00 - 10:00	14:00 - 15:00	Opening Session/Lecture Prof. Hans-Georg Schweiger	UFSC, THI, DWIH
10:00 - 10:20	15:00 - 15:20	Coffee break	
10:20 - 11:40	15:20 - 16:40	Lecture Prof. Alexandre Kupka da Silva / Prof. Manoel Joaquim Gonçalves	UFSC, THI, IFSC
11:40 - 14:00	16:40 - 19:00	Lunch	
14:00 - 15:20	19:00 - 20:20	Lecture Prof. Sergej Diel / Prof. Daniel Navarro / 2LIFEBAT Presentations	THI
15:20 - 15:40	20:20 - 20:40	Coffee break	
15:40 - 17:00	20:40 - 22:00	Lecture Prof. Alessandro Trindade / 2LIFEBAT Presentations	UFSC, THI, IFSC, UFAM
Wednesday 17th April - venue Eng. Mecânica/UFSC - Fotovoltaica/Sapiens Park/UFSC			
Time	Time CEST	Speaker	Institution
09:00 - 10:00	14:00 - 15:00	Lectures Prof. Ricardo Rütther / Prof. Maurício Uriona Maldonado	UFSC
10:00 - 10:20	15:00 - 15:20	Coffee break	
10:20 - 12:00	15:20 - 17:00	Industrial Partners/Funding opportunities	CELESC/WEG/Micropower/DWIH/Embrapii-Move
12:00 - 14:00	17:00 - 19:00	Lunch (transfer UFSC to Fotovoltaica)	
14:00 - 15:20	19:00 - 20:20	Visit to Fotovoltaica Facilities	UFSC
15:20 - 15:40	20:20 - 20:40	Coffee break	
15:40 - 17:00	20:40 - 22:00	2LIFEBAT meeting	internal discussions
Thursday 18th April - venue Fotovoltaica/Sapiens Park/UFSC			
Time	Time CEST	Speaker	Institution
09:00 - 10:00	14:00 - 15:00	Lectures Prof. Heike Proff/Arne Jeppe/Aline KVO	UDE/UFSC
10:00 - 10:20	15:00 - 15:20	Coffee break	
10:20 - 11:40	15:20 - 16:40	Lectures Prof. Rodrigo Escobar / Prof. Gustavo Doubek	PUC-Chile / UNICAMP
11:40 - 13:30	16:40 - 18:30	Lunch	
13:30 - 15:00	18:30 - 20:00	Visit to Fotovoltaica Facilities	UFSC

DETAILED PROGRAM

16th April - Venue - UFSC/Eng. Mec. - BI A - Auditorium				
Time	Time CEST	Speaker	Institution	Topic
09:00 - 09:20	14:00 - 14:20	Amir Oliveira / Márcio Weicher / Samuel Abreu / Sergej Diel	UFSC, DWIH, THI, IFSC	OPENING REMARKS
09:20 - 10:00	14:20 - 15:00	Hans-Georg Schweiger	THI	Current topics in battery and electric vehicle safety
10:00 - 10:20	15:00 - 15:20	Coffee break		
10:20 - 11:00	15:20 - 16:00	Alexandre Kupka da Silva	UFSC	Green hydrogen for transportation: Global assessment for Brazil
11:00 - 11:20	16:00 - 16:20	Ertan Akgün	THI	Utilization of green hydrogen in form of ammonia*
11:20 - 11:40	16:20 - 16:40	Joaquim Manoel Gonçalves	IFSC	The development of a battery calorimeter for electro-thermal characterization of Li-ion cells
11:40 - 14:00	16:40 - 19:00	Lunch		
14:00 - 14:20	19:00 - 19:20	Daniel Navarro	THI	Examples on Analysis and Characterization of Off-Grid Installations*
14:20 - 15:00	19:20 - 20:00	Sergej Diel	THI	Efficient hydrogen production via electrolysis using second-life batteries
15:00 - 15:20	20:00 - 20:20	Victor Cojocar	THI	Predicting Remaining Useful Life (RUL) of Batteries and Repurposing in Secondary Applications*
15:20 - 15:40	20:20 - 20:40	Coffee break		
15:40 - 16:00	20:40 - 21:00	Alessandro Trindade	UFAM	Access to energy in isolated communities at the Amazon basin: economic, technological and logistical challenges
16:00 - 16:20	21:00 - 21:20	Gero Walter	THI/UFSC	Operating Behavior of a photovoltaic-driven Electrolysis System*
16:20 - 16:40	21:20 - 21:40	Murillo Stein	UFSC/THI	Exploring the Swelling Dynamics of LiFePO4 Pouch Batteries Across Varied Operating Conditions
16:40 - 17:00	21:40 - 22:00	Arlem Farias	UFAM/THI	Data-Driven Remaining Useful Life Prediction of Lithium-Ion Batteries*
presentations marked with "*" will be online				

17th April - Venue - UFSC/Eng. Mec. - BI A - Auditorium				
Time	Time CEST	Speaker	Institution	Topic
09:00 - 09:40	14:00 - 14:40	Ricardo Rüther	UFSC	Photovoltaics and Second life batteries for green H2 production
09:40 - 10:00	14:40 - 15:00	Maurício Maldonado	UFSC	Scenarios for 2nd life EV batteries: challenges and opportunities
10:00 - 10:20	15:00 - 15:20	Coffee break		
10:20 - 10:40	15:20 - 15:40	Leonardo Pacheco	CELESC	Multifunctional transportable energy storage system via first and second life batteries to support shutdowns and attend seasonal peaks in demand from the distribution network
10:40 - 11:00	15:40 - 16:00	Vitor Volpato Goulart	Micropower	The power of BESS Virtual Power Plants (VPP): a real case being deployed in Brazil.
11:00 - 11:20	16:00 - 16:20	Ricardo Estefano Rosa	WEG	
11:20 - 11:40	16:20 - 16:40	Márcio Weichert	DWIH	Funding programmes of DAAD, DFG, AvH, Baylat
11:40 - 12:00	16:40 - 17:00	Rodrigo de Souza Vieira	UFSC/Move	Strategic partnerships in RD&I with Embrapii
12:00 - 14:00	17:00 - 19:00	Lunch (transfer UFSC to Fotovoltaica)		
17th April - Venue - Fotovoltaica/Sapiens Park - Auditorium				
14:00 - 15:20	19:00 - 20:20	Visit to Fotovoltaica Facilities		
15:20 - 15:40	20:20 - 20:40	Coffee break		
15:40 - 17:00	20:40 - 17:00	2LIFEBAT Internal meeting		
presentations marked with "*" will be online				

17th April - Venue - Fotovoltaica/Sapiens Park - Auditorium				
Time	Time CEST	Speaker	Institution	Topic
09:00 – 09:40	14:00 - 14:40	Heike Proff/Arne Jeppe	UDE	Designing Early Repurposing Business Models at the Bottom of the pyramid – A case study on the second-life use of car batteries as solar storage in remote Amazon regions
09:40 – 10:00	14:40 - 15:00	Aline Kirsten Vidal Oliveira	UFSC	The role of second life batteries in powering green hydrogen*
10:00 – 10:20	15:00 - 15:20	Coffee break		
10:20 – 11:00	15:20 - 16:00	Rodrigo Escobar	PUC/Chile	H2V production schemes using PV and CSP
11:00 – 11:40	16:00 - 16:40	Gustavo Doubek	UNICAMP	
11:40 – 13:30	16:40 - 18:30	Lunch		
13:30 – 15:00	18:30 - 20:00	Visit to Fotovoltaica Facilites		
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