

Wednesday, 5 June 2024

09:00 - 09:30			Opening ENERSTOCK24
09:00 - 09:05	Kévin Johannes and Frédéric Kuznik, Organizers		
09:05 - 09:15	Marie-Christine Baietto, Vice-President for Research, INSA LYON		
09:15 - 09:30	Bert Gysen, IEA ES TCP Chair		
09:30 - 10:00			Plenary Session 1, Auditorium Pasteur
			Carnot Battery development – state of the art & prospects - Annelies Vandersickel - DLR - GERMANY
			Chairperson: M. De Paepe
10:05 - 12:55			Session 1: Auditorium Pasteur
			Chairperson: H. Zondag
			TCM Materials
10:05 - 10:25	Unexplored synthetic approaches for CaCl ₂ impregnation for thermal energy storage		Fotia Antonio
10:25 - 10:45	Assessing Zeolite Imidazolate Frameworks as Thermal Energy Storage Materials		Byrne Ciara
10:45 - 11:05	Nanofabrication of Multi-Shells Hollow CuO Microspheres for an Enhanced Cyclic Redox Reaction in High-Temperature Thermochemical Heat Storage Applications		Agalit Hassan
11:05 - 11:35	Break: Place Haute		
11:35 - 11:55	Evaluation of the life cycle energy and greenhouse gas emissions of a space heating systems using ettringite as an adsorbent material		Bonnin Salomé
11:55 - 12:15	Influence of host matrices on the thermochemical energy storage capacity of novel organic salt hydrate		Previti Emanuele
12:15 - 12:35	Thermochemical energy storage properties of Ca ₂ AlMnO ₅ + d		Tanahashi Keita
12:35 - 12:55	A novel synthesis and characterization of α-Fe ₂ O ₃ @Ppy photoanode for photoelectrochemical water splitting		Kardas Gulfeza
10:05 - 12:55			Session 1: Room Rhône 1
			Chairperson: A. Lazaro
			PCM Materials
10:05 - 10:25	Critical review on the environmental assessment of xylitol as phase change material		Santos Humberto
10:25 - 10:45	Development and characterization of a new bio-sourced composite material based on phase change material and hemp shives		Toifane Hachmi
10:45 - 11:05	Bio-based shape-stabilized phase change materials for hot water storage		Marske Felix
11:05 - 11:35	Break: Place Haute		
11:35 - 11:55	Impact of Using Different Phase Change Materials on a PCM-HX's Performance		Dominic Groulx
11:55 - 12:15	Multi-scale experimental characterization and management of the supercooling of Isosorbide as Phase Change Material for thermal energy storage		Bruch Arnaud
12:15 - 12:35	Stability test of three different phase change material emulsions		Gschwander Stefan
12:35 - 12:55	Sensible/latent hybrid heat storage using molten nitrate and Al alloy-based phase-change material		Shimizu Yuto
10:05 - 12:55			Session 1: Room Rhône 3A
			Chairperson: A. I. Fernandez
			PCM Systems
10:05 - 10:25	Experimental analysis of partial charge and discharge operation of a Latent Heat Thermal Energy Storage device		Adriano Sciacovelli
10:25 - 10:45	Phase change material integrated underground thermal energy storage in heating and cooling applications: A review		Dong Haoyang
10:45 - 11:05	Enhancing energy flexibility in buildings: A design-phase approach to couple Latent Heat Thermal Energy Storage (LHTES) and Heat Pumps		Fabrizio Enrico
11:05 - 11:35	Break: Place Haute		
11:35 - 11:55	Enhance the productivity of solar still by using combined reflectors and latent thermal energy storage		Al-Saaidi Hussein Alawai Ibrahim
11:55 - 12:15	Solar heating and cooling with latent heat storage for temporary shelters		Paksoy Halime
12:15 - 12:35	Bench-scale long-term phase change material analysis for thermal energy storage design		Gunasekara Saman Nimali
12:35 - 12:55	Manufacturing Composites for High-Temperature Thermal Energy Storage applications From lab to pilot scale		Navarro Helena
10:05 - 12:55			Session 1: Room Rhône 3B
			Chairperson: F. Kuznik
			IEA ES TCP TASKS
10:05 - 10:25	Task 37: Smart Design and Control of Energy Storage Systems		Ryozo Ooka
10:25 - 10:45	Task 41: Economics of Energy Storage – EcoEneSto		Andreas Hauer
10:45 - 11:05	Task 42: System flexibility from Medium-Duration Energy Storage		Seamus Garvey
11:05 - 11:35	Break: Place Haute		
11:35 - 11:55	Task 45: Accelerating the Uptake of Large Thermal Energy Storages		Wim van Helden
11:55 - 12:15	Task 40: Compact Thermal Energy Storage – Materials within Components within Systems		Christoph Rathgeber
12:15 - 12:35	Task 38: Ground Source De-Icing and Snow Melting Systems for Infrastructure		Aysegul Cetin & Bijan Adl-Zarrabi
12:35 - 12:55	Task 43: Standardized Use of Building Mass as Storage for Renewables and Grid Flexibility		Christoph Rohringer
13:00 - 14:30			Lunch: Salon Pasteur

Wednesday, 5 June 2024

14:30 - 15:30 **Poster session: Auditorium Pasteur**

15:30 - 17:30 **Session 2: Auditorium Pasteur**

Chairperson: L. F. Cabeza

TCM Systems

15:30 - 15:50 Thermochemical Energy Storage Unit for H₂ Based Systems

15:50 - 16:10 Performance of high-temperature thermochemical systems based on carbonates and mixed oxides in fluidized bed reactors.

16:10 - 16:30 Experimental investigation of a facade-integrated adsorption system for solar cooling

Buerger Inga
Liberatore Raffaele
Boeckmann Olaf

16:30 - 16:50 Break - Poster

16:50 - 17:10 Small-scale field demonstration of zeolite based mobile thermochemical energy storage

17:10 - 17:30 Evaluation of thermal energy storage performance of composite binary salt hydrates with MgCl₂/2CaCl₂ in a packed bed reactor

Fujii Shoma
Liu Hongzhi

15:30 - 17:30 **Session 2: Room Rhône 1**

Chairperson: D. Groulx

PCM Materials

15:30 - 15:50 Investigating the relation between the crystallisation velocity and the hysteresis of phase change materials with two polyethylene glycols

15:50 - 16:10 Supercooling suppression of Al-Si phase change material for efficient thermal energy storage and practical applications

16:10 - 16:30 Prediction and experimental characterization of a peritectic mixture of sodium acetate trihydrate and sodium nitrate to be used as phase change material

Hiebler Stefan
Mba Joshua Chidiebere
Rathgeber Christoph

16:30 - 16:50 Break - Poster

16:50 - 17:10 Study of solid-state transition kinetics of supercooled neopentyl glycol by infrared thermography

17:10 - 17:30 Improved Thermophysical and Mechanical Properties in LiNaSO₄ Composites for Thermal Energy Storage

Dauvergne Jean Luc
Taeno Maria

15:30 - 17:30 **Session 2: Room Rhône 3A**

Chairperson: A. Hauer

TCM Systems

15:30 - 15:50 Layered manganese dioxide as a versatile heat-storage material utilizing environmental water vapor

15:50 - 16:10 Development and multiscale characterization of a sensible/sorption bimodal heat storage for cooling tower application

16:10 - 16:30 Experimental assessment of inorganic salts impregnated silica gel matrix for thermal energy storage applications.

Okamoto Norihiko L.
Arnaud Bruch
Fotia Antonio

16:30 - 16:50 Break - Poster

16:50 - 17:10 Thermal discharge performance of a composite foam in an indirect fixed-bed reactor for thermochemical energy storage

17:10 - 17:30 Numerical simulations for improvements of the experimental system for testing adsorption heat storage materials

Funayama Shigehiko
Mlakar Urska

15:30 - 17:30 **Session 2: Room Rhône 3B**

Chairperson: F. Kuznik

IEA ES TCP TASKS

15:30 - 15:50 Task 44: Power-to-Heat and Heat integrated Carnot Batteries for Zero-Carbon (industrial) Heat & Power supply

15:50 - 16:10

16:10 - 16:30

ES TCP TASKS
Annelies Vandersickel

16:30 - 16:50 Break - Poster

16:50 - 17:10

17:10 - 17:30

17:30 - 19:00 **INPATH TES Network: Auditorium Pasteur**

Chairperson: Luisa F. Cabeza

19:00 - 21:00 **Welcome Cocktail, Salon Pasteur**

Thursday, 6 June 2024

08:30 - 09:00	Plenary Session 2, Auditorium Pasteur Share of storage in the electricity mix of prospective scenarios in France - Pierre Sacher - ADEME Chairperson: A. Hauer	
09:05 - 11:55	Session 3: Auditorium Pasteur Chairperson: C. Obrecht Numerical modelling of Heat storage systems	
09:05 - 09:25	Thermocline thermal storage material based on reclaimed and low-cost materials.	Devise Charles
09:25 - 09:45	Numerical investigation of porous media layers for improved stratification within cold storage	Gamisch Sebastian
09:45 - 10:05	Thermal Energy Storage with Molten Salts: Predictive Models for thermo-physical properties.	Liberatore Raffaele
10:05 - 10:35	Break: Place Haute	
10:35 - 10:55	A Review of Pilot-scale and Application-scale Latent Thermal Energy Storage Heat Exchanger Configurations	Suswal Aditya Singh
10:55 - 11:15	Comparison between a conventional TES system and an EAF slag-based thermocline configuration for CSP plants using the LCA methodology.	Majo Marc
11:15 - 11:35	Innovative transient modelling of concrete-based solid medium for thermal energy storage systems	Tagle-Salazar Pablo D.
11:35 - 11:55	Large Scale Testing of Refractory Bricks for Molten Salt Thermal Energy Storage	Odenthal Christian
09:05 - 11:55	Session 3: Room Rhône 1 Chairperson: H. Paksoy PCM Materials	
09:05 - 09:25	Solidification enhancement by changing fin structures using Straight and Y-shaped fins for M-TES applications	Demirkiran Ismail
09:25 - 09:45	Development of microencapsulated phase change material with Zn-10 mass% Al alloy core for heat utilization around 400 °C	Kawaguchi Takahiro
09:45 - 10:05	Continuous synthesis of 9,10-dihydroxystearic acid from bio-based resources for sustainable PCM production	Escriba-Gelonch Marc
10:05 - 10:35	Break: Place Haute	
10:35 - 10:55	Synergistic Approaches to Modulate Transition Temperatures in Enhanced Organic Plastic Crystals	Serrano Ángel
10:55 - 11:15	Thermal response of layered hybrid organic-inorganic perovskites as solid-solid phase change materials	Salgado-Pizarro Rebeca
11:15 - 11:35	Rheological study on xylitol crystallization by seeding and shearing for its use as PCM: Influence of shear rate, temperature and seed size	Navarro Miguel
11:35 - 11:55	Use of plastic waste to formulate new microencapsulated phase change materials (MPCM) with thermal, mechanical and chemical resistance	Giro-Paloma Jessica
09:05 - 11:55	Session 3: Room Rhône 3A Chairperson: S. Doppiu PCM Materials	
09:05 - 09:25	Testing and Analysis of a Dual-Tube Latent Heat Storage System	Dietz Larissa
09:25 - 09:45	Experimental study of heat transfer enhancement in a latent heat thermal energy storage using metal wool	Mani Kala Saranprabhu
09:45 - 10:05	High Temperature PCMs for industrial steam systems	Zondag Herbert
10:05 - 10:35	Break: Place Haute	
10:35 - 10:55	Selection of suitable inorganic materials to be applied as PCMs in high temperatures thermal energy storage system	Martinez Alcocer Franklin R.
10:55 - 11:15	Experimental Evaluation of a Phase-change Thermal Storage	Harrison Stephen
11:15 - 11:35	Design and commissioning of the worldwide first nitrate molten salt test rig for component testing at 620°C	Klasing Freerk
11:35 - 11:55	Experimental Characterization of a High-Temperature Thermal Energy Storage System Based on Nitrate Salt as Phase-Change-Material for Steam Generation	Fluri Thomas
09:05 - 11:55	Session 3: Room Rhône 3B Chairperson: E. Palomo High Temperature Applications	
09:05 - 09:25	High Temperature Thermal Energy Storage with Phase Change Materials in Concentrated Solar Power System: A Case Study	Shan Lianying
09:25 - 09:45	Liquid metals, an efficient heat transfer fluids for high-temperature heat storage	Niedermeier Klarissa
09:45 - 10:05	Corrosion control of a Fe-based alloy (DMV 310 N) in molten MgCl ₂ -KCl-NaCl for heat storage and transfer at very high temperatures	Ding Dr. Wenjin
10:05 - 10:35	Break: Place Haute	
10:35 - 10:55	Compatibility of demolition wastes with solar salt for high temperature packed-bed thermal energy storage applications	Kocak Burcu
10:55 - 11:15	Experimental Study of a Bench Scale Packed-bed Latent Heat Storage Unit with Al-Si based PCM pellets	Nakamura Tomokazu
11:15 - 11:35	Electrical tortuosities of honeycomb and triply periodic minimal surface (TPMS)-based porous structures for Power-to-Heat applications	Ott Thorsten
11:35 - 11:55	Recent advance on metal/alloy based micro-encapsulated phase change materials for middle-high temperature applications	Nomura Takahiro
12:00 - 13:30	Lunch: Salon Pasteur	

Thursday, 6 June 2024

13:30 - 14:30	Poster session: Auditorium Pasteur	
14:30 - 16:30	Session 4: Auditorium Pasteur	Numerical modelling of Heat storage systems
	Chairperson: E. Fabrizio	
14:30 - 14:50	Carbon Capture and Heating - Can we combine long-term energy storage with Direct Air Capture?	Linder Marc
14:50 - 15:10	Enhancing grid integration of renewable energy with seasonal thermal energy storage using molten salt tanks	Prieto Cristina
15:10 - 15:30	Optimizing the size of a heat storage tank for a district heating system	Strith Uros
15:30 - 15:50	Break - Poster	
15:50 - 16:10	4-Dimensional monitoring of the temperature and energy performance of borehole heat exchanger systems: the Hoogezand pilot (Groningen, Netherlands)	Daniel Bakker
16:10 - 16:30	Surface engineering for TES application enhancement.	Betancor Lorena
16:30 - 16:50	Membrane-Encapsulated Salt Hydrate: An Anti-agglomeration Approach to Enhance Cyclability	Elahi Behrooz
16:50 - 17:10	Integrated High Temperature Heat Pump and Thermal Energy Storage Laboratory Rig - Engineering Considerations and Preliminary Design	Sanclemente Lozano Mateo
17:10 - 17:30	Electrified cascade PCM concept for Thermal Energy Storage in a CSP plant	Lopez-Roman Anton
17:30 - 17:50	Design, implementation and monitoring results from the 70,000 m3 pit thermal energy storage (PTES) in Hoje Taastrup, Copenhagen	Sorensen Per Alex
14:30 - 16:30	Session 4: Room Rhône 1	PCM Materials
	Chairperson: C. Rathgeber	
14:30 - 14:50	Ceramic coatings for containment of aluminium silicon metallic phase change material in thermal storage applications	Villada Carolina
14:50 - 15:10	Degradation of Erythritol after ageing at elevated temperature and cycling under real application conditions	Kluender Franziska
15:10 - 15:30	Metallic phase change material (PCM) for high temperature applications, selection, synthesis and characterisation.	Williamson Kyran
15:30 - 15:50	Break - Poster	
15:50 - 16:10	Characterization of coated silica sand by Mn diffusion into crystal cell.	Cerutti-Cristaldo Leonel Mario
16:10 - 16:30	Development of ceramic protective coatings for solid-solid Phase Change Materials	Crocom Paola
16:30 - 16:50	Solid-Solid Phase Change Materials for the Thermal Management of Li-Ion Batteries	Saad Ali
16:50 - 17:10	Mechanochemical synthesis of layered hybrid organic-inorganic perovskites for thermal energy storage materials	Fernandez A Ines
17:10 - 17:30	Long-term stability investigation of capric acid as potential phase change material	Ayaz Hamza
14:30 - 16:30	Session 4: Room Rhône 3A	PCM Systems
	Chairperson: G. Zsembinszki	
14:30 - 14:50	Performance enhancement of a Latent Heat Thermal Energy Storage for Domestic Hot Water production	Champel Benedicte
14:50 - 15:10	Thermal modelling of the discharge of a 180kW.h latent thermal energy storage demonstrator	Da Col Amandine
15:10 - 15:30	Advanced numerical model to analyze the thermal response of macroencapsulated PCMs for building applications	Alvarez-Rodriguez Matias
15:30 - 15:50	Break - Poster	
15:50 - 16:10	Molecular Dynamics Simulation of the Polyvinyl Alcohol Template Effect in n-Octadecane Phase Change Slurry Crystallization	Kick Moritz
16:10 - 16:30	Numerical analysis of an off-grid positive temperature cold room coupled with latent thermal energy storage for food preservation	Slaviero Gianluca
16:30 - 16:50	Experimental characterisation and numerical modelling of a novel heat exchanger for latent heat thermal energy storage composed with open-cells metallic lattice str	Vesin Sebastien
16:50 - 17:10	From Heat Storage to Heat Sink: The Role of Phase Change Materials in Battery Thermal Management	Bahwani Apoorva
17:10 - 17:30	A critical Outlook to commercial high-temperature Thermal Energy Storage	Ammann Sebastian
14:30 - 16:30	Session 4: Room Rhône 3B	Numerical modelling of Heat storage systems
	Chairperson: J. Radcliffe	
14:30 - 14:50	Modeling multi-basin water-gravel thermal energy storages with STORE	Bott Christoph
14:50 - 15:10	System and Component Model Development of a Secondary Loop System with Buried Thermal Energy Storage Tank	Spitler Jeffrey
15:10 - 15:30	LargeTESmtk: A comprehensive modeling toolkit for large-scale thermal energy storage systems	Reisenbichler-Sommerhofer Michael
15:30 - 15:50	Break - Poster	
15:50 - 16:10	Renewal planning method of air-conditioning heat source system with diurnal water thermal storage for demand response in an existing building	Imaida Moi
16:10 - 16:30	Design of borehole heat exchangers combined with a permanent dewatering system in series	Kim Eui-Jong
16:30 - 16:50	Understanding and overcoming the challenges for the integration of large-scale Thermal Energy Storage	Tosatto Alice
16:50 - 17:10	Long term thermal function of the HT BTES plant at Xylem in Emmaboda, Sweden	Andersson Olof
17:10 - 17:30	Development of a lifetime assessment approach for polyolefinic insulation materials in pit thermal energy storages	Peham Lukas
17:30 - 17:50	Erosion of a tube immersed in a bubbling fluidized bed at high temperature: a numerical study	Dominnguez-Coy Pedro
19:30 - 23:30	Gala Dinner: Espace H7 - https://maps.app.goo.gl/jvGp1yh42gQ79FAf7	



Friday, 7 June 2024

09:00 - 09:30	Plenary Session 3, Auditorium Pasteur Energy storage for supporting Renewable businesses - Lionel Nadau - ENGIE - France Chairperson: J. Radcliffe	
09:35 - 12:25	Session 5: Auditorium Pasteur Chairperson: F. Haghghat Heat storage Systems	
09:35 - 09:55	Modelling of thermal storage systems using artificial intelligence	Rojas Cala Edgar Felipe
09:55 - 10:15	Thermal energy storage in energy communities: a perspective overview through a bibliometric analysis	Brunelli Luca
10:15 - 10:35	Characterizing Na2S kinetics for thermochemical energy storage applications through algorithmic optimization	Kieskamp Bram
10:35 - 11:05	Break: Place Haute	
11:05 - 11:25	Malta's Pumped Heat Energy Storage Technology: a Clean Combined Heat and Power Plant	Hippler-Nettlau Janina
11:25 - 11:45	Thermal Energy Storage as a Service Business Model for Food Supply Chain Decarbonisation	Wang Xinfang
11:45 - 12:05	An innovative, modular sorption storage system for residential applications	Hengel Franz
12:05 - 12:25	Synergistic effect of textile-reinforced mortar and phase change materials in buildings	Borri Emiliano
09:35 - 12:25	Session 5: Room Rhône 1 Chairperson: W. Van Helden PCM Materials / Systems	
09:35 - 09:55	Biomimicry-inspired design optimization of a latent thermal energy storage system using phase change materials	Mehraj Nadiya
09:55 - 10:15	Swedish State-of-the-Art on Ground-source De-Icing and Snow Melting Systems	Gehlin Signhild
10:15 - 10:35	Demonstration of cold thermal energy storage for air conditioning in a CO2 supermarket refrigeration system	Selvnes Hakon
10:35 - 11:05	Break: Place Haute	
11:05 - 11:25	Impact of thermocouple position on the supercooling of distilled water	Rabbi Jawad
11:25 - 11:45	Influence of operating conditions on the melting front movement in tube-in-tube latent thermal energy storage heat exchangers	Van Zele Julie
11:45 - 12:05	Utilization of UTES with solar energy in de-icing and snow melting - IEA ES TASK 38	Adl-Zarrabi Bijan
12:05 - 12:25	Cool-Data: PCM cold storage development for server room cooling	Englmair Gerald
09:35 - 12:25	Session 5: Room Rhône 3A Chairperson: F. Kuznik Numerical modelling of Heat storage systems	
09:35 - 09:55		
09:55 - 10:15	Numerical and dynamic energy modeling for performance analysis of an integrated photovoltaic/thermal-heat pump system	Chae Soowon
10:15 - 10:35	Numerical modelling of a Pit Thermal Energy Storage used for performance guarantee.	Fournier Nathan
10:35 - 11:05	Break: Place Haute	
11:05 - 11:25	Numerical investigation about the electrical heating of a molten salt mixture for thermal energy storage applications	Cagnoli Mattia
11:25 - 11:45	Development and performance evaluation of a K2CO3-based closed-cycle sorption heat storage system	Jain Kartik
11:45 - 12:05	Comparative Simulations for the Verification of Simulation Models for Large Thermal Energy Storages	Schmidt Thomas
12:05 - 12:25	Modelling of heat and moisture transfer through the lid of Pit Thermal Energy Storages	Brand Tom
09:35 - 12:25	Session 5: Room Rhône 3B Chairperson: TBA Heat Storage Systems	
09:35 - 09:55	Reduction of the Winter Gap Problem - Energy Efficiency vs. Energy Flexibility	Ochs Fabian
09:55 - 10:15	An analysis of energy storage policy in the UK (2000-2023): capturing key insights and lessons learned	Radcliffe Jonathan
10:15 - 10:35	Conceptual Development and Upscaling Considerations of a Radial Flow Packed Bed Thermal Energy Storage with Multiple Coaxial Particle Layers	Apostolopoulos - Kalkavouras Konstantinos
10:35 - 11:05	Break: Place Haute	
11:05 - 11:25	Design Optimization of Synthetic Methane Production Sites Incorporating Direct Air Capture Technology	Humbert Gabriele
11:25 - 11:45	Methodology for integrating renewable energy and thermal storage systems in the electricity market	Pavon-Moreno M.carmen
11:45 - 12:05	Thermochemical energy storage in a CSA-based cementitious material	Beaupere Noé
12:05 - 12:25	Interpretable Reinforcement Learning Control for Battery Storage in Grid-Interactive Communities	Takahashi Ken
12:25 - 13:00	Closing session - Awards Ceremony - Auditorium Pasteur	
13:00 - 14:00	Lunch box: Place Haute	

Wednesday, 5 June 2024

14:30 - 15:30

Poster session 1: Auditorium Pasteur

14:30 - 14:34	Unlocking feasibility: Role of insulation distribution in large-scale seasonal thermal energy storage applications
14:34 - 14:38	Monitoring results of energy-efficient demonstration buildings with thermal activated building mass as energy storage
14:38 - 14:42	Selection of the storage system for industrial steam supply with heat pumps
14:42 - 14:46	Test rig for investigating the optimisation of operating strategies for steam supply with passive Latent Heat - Thermal Energy Storages
14:46 - 14:50	Energy Storage Systems and Renewable Integration: Pathways to Carbon Neutral Buildings
14:50 - 14:54	Specific heat capacity variability analysis of Chilean copper slag for packed-bed thermal energy storage applications
14:54 - 14:58	Evaluation of volcanic ash as TES material: Case of study of a CSP plant
14:58 - 15:02	Protic dialkylammonium-based ionic liquids as promising solid-solid phase change materials for thermal energy storage: synthesis and thermo-physical characterization.
15:02 - 15:06	Graphite Based Encapsulation Concept for a High Temperature Metallic Latent Thermal Energy Storage System
15:06 - 15:10	A novel process for the generation of ice slurry based on a dispersible two-substance system
15:10 - 15:14	Corrosion test on nitrate salts for building heating applications
15:14 - 15:18	Use of bibliometric analysis to evaluate the influence of cement and concrete on carbon capture, utilization, and storage over the years
15:18 - 15:22	Advanced controllers for electrically heated floors in residential buildings to shift peak load
15:22 - 15:26	Study on Estimation of Time-Specific CO2 Emission Factors and New Operation of Thermal Energy Storage System.

Dahash Abdulrahman
Rohringer Christoph
Nefodov Dimitri
Dietz Larissa
Han Gwangwoo
Segovia Valentina
Barreneche Camila
Lopez-Morales Jorge L.
Stahl Veronika
Urbaneck Thorsten
Palacios Anabel
Santini Carolina
Sun Ying
Yamanashi Haruki

Thursday, 6 June 2024

13:30 - 14:30

Poster session 2: Auditorium Pasteur

13:30 - 13:34	Experimental Study of Thermochemical Heat Storage with Zeolite 13X for Utilization of Industrial Wasted Heat
13:34 - 13:38	The IN-Campus: A lighthouse site for re-used infrastructures as seasonal thermal energy storage
13:38 - 13:42	Highly Accurate Simulation of the Flow Effects during Loading with Swirl
13:42 - 13:46	Genetic Algorithm Based Optimization of a closed sorption heat storage system using COMSOL Multiphysics and MATLAB
13:46 - 13:50	Stability Evaluation of Cation-exchanged Zeolites through Repeated Experiment of Heat Charging and Discharging
13:50 - 13:54	Investigation of a thermochemical storage system for the use of solar energy in domestic applications
13:54 - 13:58	Experimental Study on Thermal Storage System with Sand and Al-Si Alloy for Coal-fired Plant Retrofit Carnot Battery
13:58 - 14:02	Lignin modified ecological coating as thermal barrier in container materials for sorption heat pumps.
14:02 - 14:06	Proposal of advanced electrochemical techniques for improved monitoring control in sorption materials for TES systems
14:06 - 14:10	GIS-Based GSHP Sizing and Estimation Tool: Facilitating Non-Expert User Engagement and Technology Dissemination
14:10 - 14:14	GeoBOOST: Pioneering Efficient Geothermal Solutions through Barrier Mitigation in Europe
14:14 - 14:18	Inventory data generation for prospective lifecycle design thorough full-year simulation of Carnot Battery with Al-Si based PCM
14:18 - 14:22	Thermo-mechanical assessment of steels under service conditions in hot tanks used in CPS.
14:22 - 14:26	Binder-free K ₂ CO ₃ granules for thermochemical heat storage
14:26 - 14:30	Specific heat capacity variability analysis of Chilean copper slag for packed-bed thermal energy storage applications

Hong Sungkook
Bayer Peter
Oestreich Felix
Abohamzeh Elham
Seongeun Kim
Niederkofler Tobias
Junhyun Cho
Amini Sara
Fernandez Ángel G.
Badenes Borja
Witte Henk
Fuji Shoma
Ardila Sergio
Salehzadeh Delaram
Segovia Valentina