

HEAT POWERED CYCLES CONFERENCE 2021 Bilbao, Spain (September 19-22)

Conference at a Glance

	Sunday September 19	Monday September 20	Tuesday September 21	Wednesday September 22	
08:00-08:30		Registration		Registration	08:00-08:30
08:30-09:00		Welcome Speech	Registration	Registration	08:30-09:00
09:00-09:30		Keynote 1	Keynote 3	Keynote 5	09:00-09:30
09:30-10:00		COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	09:30-10:00
10:00-10:15		A1. Thermodynamic Cycles (I)	A1. Thermodynamic Cycles (II)	A1. Thermodynamic Cycles (V)	10:00-10:15
10:15-10:45		A2. Sorption Cycles (I)	A2. Sorption Cycles (III)	A3. H&M Transfer (II)	10:15-10:45
10:45-11:15		LUNCH	LUNCH	LUNCH	10:45-11:15
11:15-11:30		Keynote 2	Keynote 4	Closure speech	11:15-11:30
11:30-12:00		A0. Special Session: Intelligent Thermal Energy Systems	A1. Special Session: The Energy in the Post-Covid Scenario		11:30-12:00
12:00-12:15		COFFEE BREAK	COFFEE BREAK		12:00-12:15
12:15-12:45		A1. Thermodynamic Cycles (II)	A1. Thermodynamic Cycles (IV)		12:15-12:45
12:45-13:15		A2. Sorption Cycles (II)	Posters Session	A2. Sorption Cycles (IV)	12:45-13:15
13:15-13:45	Registration (Hotel Barceló)	A3. H&M Transfer (I)			
13:45-14:00		A4. Heat Transfer Process			
14:00-14:30	Welcome (Hotel Barceló)	Meeting Organization Committee			
14:30-14:45			Guided Tour (Guggenheim Museum)		
14:45-15:15			GALA DINNER (Guggenheim Museum)		
15:15-15:30					
15:30-16:00					
16:00-16:30					
16:30-16:45					
16:45-17:15					
17:15-17:30					
17:30-17:45					
17:45-18:15					
18:15-18:30					
18:30-19:00					
19:00-19:30					
19:30-20:00					
20:00-20:30					
20:30-21:00					
21:00-21:30					
21:30-22:00					
22:00-22:30					
22:30-23:00					

9TH HEAT POWERED CYCLES CONFERENCE

University of the Basque Country

Bilbao, Spain, 19-22 September 2021

CONFERENCE'S PROGRAM

Hotel Barceló, Bilbao, Spain

19-Sep-21

17:30

Registration

18:30

Welcome Drinks and Snacks

9TH HEAT POWERED CYCLES CONFERENCE
University of the Basque Country
Bilbao, Spain, 19-22 September 2021

20-Sep-21

8:00	Registration	Hall
9:00	Welcome Speech Few Announcements	Auditorium Michelena (140p COVID)
9:30	Chair: TBD Keynote Presentation Andreas P. Weiß, Technical University of Applied Sciences Amberg-Weiden, Germany	Auditorium Michelena (140p COVID) <i>Steamy Issues – why the steam engine was the first implemented heat engine and its impact on future energy systems</i>

10:15 - 10:45 Coffee Break

A-1 - THERMODYNAMIC CYCLES I

Chair: TBD

Auditorium Baroja (70p COVID)

Time	Paper ID	Authors	Title
10:45	HPC-2021-400	T. Popp, A. P. Weiß, F. Heberle, P. Streit and University of Bayreuth Technical University of Applied Sciences Amberg-Weiden	<i>Thermodynamic Evaluation of an Experimental WHR ORC Test Rig with Quasi-Impulse Cantilever Turbine</i>
11:05	HPC-2021-401	G. Dino A. Frazzica D. Chêze A. Gabaldón D. Ntimos G. Tardioli, F. Fuligni CNR ITAE, Italy Univ Grenoble Alpes, CEA, LITEN, INES, F-38000 Grenoble (France) CARTIF, Parque Tecnológico de Boecillo, Boecillo 47151, Valladolid, Spain West Scotland Science Park, Glasgow, Scotland RINA Consulting SpA, Via Cecchi, 6, Genova, Italy	<i>Parametric simulation of a solar coupled heat pump system</i>
11:25	HPC-2021-402	V. Wolf E. J. Rabadán Santana S. Leyer University of Luxembourg, Luxembourg	<i>CO2 Power Cycle Assessment for Low Grade Waste Heat Recovery</i>
11:45	HPC-2021-416	S. Funayama1*, H. Takasu1 and Y. Kato1 Laboratory for Advanced Nuclear Energy, Tokyo Institute of Technology, Japan	<i>Optimal volume fraction of support material in a heat transfer-enhanced composite for thermochemical energy storage</i>

A-2 - SORPTION CYCLES I

Chair: TBD

Auditorium Arriaga (30p COVID)

Time	Paper ID	Authors	Title
10:45	HPC-2021-101	Elias Eder F. Stemer Dieter Brüggemann Markus Preißinger University of Bayreuth, Germany	<i>An experimental investigation of oily wastewater treatment in a bubble column humidifier using an improved method for measuring humidity</i>
11:05	HPC-2021-103	Natalia Alegria1* and Igor Peñalba1 University of the Basque Country (UPV/EHU)	<i>Projects for the desalination of brackish water and seawater at the Faculty of Engineering in Bilbao</i>
11:25	HPC-2021-300	AL-Hasni. Shihab Grant. Rachael Santori. Giulio The University of Edinburgh, School of Engineering, Scotland, UK	<i>The cost of manufacturing adsorption chillers</i>
11:45	HPC-2021-301	P. Postweiler M. Engelpracht A. Gibelhaus N. von der Assen RWTH Aachen University, Germany	<i>Environmental Process Optimisation of Adsorption-based Direct Air Capture of CO2</i>

12:15 - 13:15 Lunch

13:15		Auditorium Michelena (140p COVID) Keynote Presentation Giorgio Besagni <i>Polytechnic of Milan - Italy</i>	Chair: Prof. Yann Bartosiewicz <i>Multi-scale modelling of ejector refrigeration systems</i>
-------	--	---	--

A-0 - SPECIAL SESSION - Intelligent Thermal Energy Systems			
		Chair: Prof. Markus Preißinger	Auditorium Michelena (140p COVID)
Time	Paper ID	Authors	Title
14:00	HPC-2021-403	T. Weller M. Johnson F. Trebilcock S. Lecompte D. Bauer <i>German Aerospace Center, Germany Tecnalia Research & Innovation, Spain Ghent University, Belgium</i>	<i>Design, Build and Initial Testing of a Novel Energy Management System</i>
14:20	HPC-2021-404	C. Sejkora1 A. Pfeifer T. Kienberger <i>Montanuniversitaet Leoben, Austria</i>	<i>Energetic and exergetic analysis of a food production site</i>
14:40	HPC-2021-415	J. Bentz1, T. Hamacher2 C. Schweigler1 <i>1 Munich University of Applied Sciences, 80335 Munich, Germany 2 Technical University Munich, 85748 Garching, Germany</i>	<i>Algorithm-Based Optimization for Energy-Efficient Operation of Refrigeration Systems</i>
15:00	HPC-2021-426	P. Wohlgenannt1, G. Huber1, K. Rheinberger1, M. Preißinger1, P. Kepplinger <i>Vorarlberg University of Applied Sciences, Hochschulstrasse 1, 6850 Dornbirn, Austria</i>	<i>Modelling of a Food Processing Plant for Industrial Demand Side Management</i>
15:20	HPC-2021-427	C. Baumann1, G. Huber1, M. Preißinger1, and P. Kepplinger <i>Vorarlberg University of Applied Sciences, Hochschulstrasse 1, 6850 Dornbirn, Austria</i>	<i>A Cloud-Based Flexibility Estimation Method for Domestic Heat Pumps</i>

15:30 - 16:00 **Coffee, Tea, Refreshments, Snacks**

A-2 - SORPTION CYCLES II			
		Chair: TBD	Auditorium Arriaga (30p COVID)
Time	Paper ID	Authors	Title
16:00	HPC-2021-302	D. Palamara1*, V. Palomba2, L. Calabrese1, A. Frazzica2 <i>1Department of Engineering, University of Messina, Contrada di Dio Sant'Agata, 98166 Messina, Italy 2CNR - Istituto di Tecnologie Avanzate per l'Energia "Nicola Giordano", Via Salita S. Lucia sopra Contesse 5, 98126 Messina, Italy</i>	<i>Evaluation of ad/desorption dynamics of S-PEEK/Zeolite composite coatings by T-LTJ method</i>
16:20	HPC-2021-303	A. Bonanno1*, V. Palomba1, S. Löwe2, U. Wittstadt2, A. Frazzica1 Davide La Rosa1 <i>1 CNR ITAE, Salita S. Lucia sopra Contesse 5, 98126, Messina, Italy 2 Fahrenheit GmbH, Siegfriedstr. 19, 80803 Munich, Germany</i>	<i>Experimental characterization of a full-scale geothermal adsorption heat pump</i>
16:40	HPC-2021-304	R.W. Moss1 and R.E. Critoph2 <i>1STET research group, School of Engineering, University of Warwick, UK</i>	<i>Modelling and design of an ammonia/salt resorption domestic heat pump</i>
17:00	HPC-2021-305	S. Pizzanelli1,* A. Freni1, F. Martini2, L. G. Gordeeva3,4, M. V. Solovyeva3,4 and C. Forte1 <i>1 CNR-ICCOM, Institute of Chemistry of Organometallic Compounds 2 University of Pisa 3 Bareskov Institute of Catalysis 4 Novosibirsk State University</i>	<i>NMR study of water exchange on a MOF for use in adsorption heat transformation processes</i>
17:20	HPC-2021-306	E. Piccoli1;2;3 V. Brancato3, A. Frazzica3, F. Maréchal2, S. Galmarini <i>1Empa, Überlandstrasse 129, 8600 Dübendorf, Switzerland 2EPFL Valais, Rue de l'Industrie 17, 1950 Sion, Switzerland 3CNR-ITAE, Messina, Italy</i>	<i>Early Stage Adsorbent Material Selection for Adsorption Heat Transformers</i>

A-1 - Thermodynamic Cycles II			
		Chair: TBD	Auditorium Baroja (70p COVID)
Time	Paper ID	Authors	Title
16:00	HPC-2021-424	S. Hiller ¹ , C. Hartmann ¹ , B. Hebenstreit ^{1,2} , S. Arzbacher Vorarlberg University of Applied Sciences, Dornbirn, 6850, Austria Luleå University of Technology, 971 87, Luleå, Sweden	<i>Solidified Air Energy Storage: A Feasibility Study</i>
16:20	HPC-2021-405	A. Metsue R. Debroeyer S. Poncet Y. Bartosiewicz UCLouvain, Institute Mechanics, Materials, and Civil Engineering, Belgium Université de Sherbrooke, Canada	<i>An improved thermodynamic model for supersonic ejectors</i>
16:40	HPC-2021-406	Bhargav Pandya Ahmad El-Kharouf Robert Steinberger-Wilckens University of Birmingham, UK	<i>Transient characteristics of solid oxide fuel cell coupled aqua-ammonia absorption refrigeration system for refrigerated transportation</i>
17:00	HPC-2021-407	J. Quenel M. Anders B. Atakan University of Duisburg-Essen, Germany	<i>Propane-isobutane mixtures in heat pumps with higher temperature lift: an experimental investigation</i>
17:20	HPC-2021-425	U. Oyarzabal ^{1*} , A. Erkoreka ¹ , I. Gomez-Arriaran ¹ , D. Novales ¹ , B. Herraiz ² ¹ Department of Thermal Engineering, Faculty of Engineering of Bilbao University of the Basque Country (UPV/EHU), Avda. Urquijo s/n 48013 Bilbao, Spain ² Department of Mechanical Engineering, SENER Ingeniería y Sistemas S.A., Avda. Zugazarte 56, 48930 Getxo, Spain	<i>Solar tower plant extra electricity production potential by means of harnessing excess solar energy</i>

A-3 - HEAT AND MASS TRANSFER I			
		Chair: TBD	Auditorium Baroja (70p COVID)
Time	Paper ID	Authors	Title
17:40	HPC-2021-429	M. Falsafioon ¹ , M. Poirier ¹ and P. Simard CanmetENERGY, Natural Resources Canada, 1615 Lionel-Boulet Blvd., Varennes, Québec, Canada	<i>Solar cooling system for a buildings using parallel ejectors</i>
18:00	HPC-2021-201	M. Engelpracht D. Rezo A. Gibelhaus A. Bardow RWTH Aachen University, Aachen, Germany Forschungszentrum Jülich, Germany ETH Zurich, Switzerland	<i>The Potential of Heat and Mass Recovery for Adsorption Heat Transformers</i>
18:20	HPC-2021-202	N. Mügge A. Kronberg M. Glushenkov E. Y. Kenig Paderborn University, Germany Encantech B.V, Netherlands	<i>On heat regeneration limitations in heat engines with dense fluids</i>
18:40	HPC-2021-203	Makram Mikhaeil Matthias Gaderer Belal Dawoud OTH Regensburg, Germany Technical University of Munich, Germany	<i>An experimental study on the effect of the heat and mass transfer characteristic lengths on the adsorption dynamics in two different open structured plate heat exchangers</i>

A-4 - HEAT TRANSFER PROCESS			
		Chair: TBD	Auditorium Arriaga (30p COVID)
Time	Paper ID	Authors	Title
17:40	HPC-2021-503	S. Murshed R. Riehl Techno Lisboa, Portugal National Institute for Space Research, Brazil	<i>Stability of Nanofluids Towards Their Use in Thermal Management Systems</i>
18:00	HPC-2021-504	M. Aresti ¹ , J. Esatella ¹ , A. Azcárate ² , L. Hurtado ² , J. Esarte ¹ INAITEC Centro tecnológico de automoción y mecatrónica 2ALAZ-ARIMA	<i>Influence of nanofluid on a connected thermosyphons</i>
18:20	HPC-2021-317	I.O. Krivosheeva ^{1,2} , M.V. Solovyeva ¹ , Yu. Aristov ¹ and L.G. Gordееva ¹ ¹ Boreskov Institute of Catalysis, Novosibirsk, Ac. Lavrentiev Novosibirsk State University ² Novosibirsk State University, Novosibirsk, Pirogova str. 2, 630090, Russia	<i>Composite sorbents Salt/MIL-101(Cr) for atmospheric water harvesting</i>
18:40	HPC-2021-428	Andrew N. Aziz ^{1,2*} , Saad Mahmoud ¹ , Raya Al-Dadah ¹ , Ibrahim Albaik ¹ ¹ School of Engineering, University of Birmingham, Edgbaston, Birmingham ² City of Scientific Research and Technological Applications, Egypt	<i>Numerical Investigation of Desiccant Cooling Using Aluminium Fumarate Metal Organic Framework Material</i>

9TH HEAT POWERED CYCLES CONFERENCE
University of the Basque Country
Bilbao, Spain, 19-22 September 2021

21-Sep-21

8:30	Registration	Hall
9:30	Chair: TBD Keynote Presentation Dr. Robert T. Hanlon1 <i>Department of Chemical Engineering, Massachusetts Institute of Technology, USA</i>	Auditorium Michelena (140p COVID) <i>My thermodynamic journey from Carnot to Gibbs – A physical interpretation of maximum work</i>

10:15 - 10:45 Coffee Break

A-2 - SORPTION CYCLES III			
		Chair: TBD	Auditorium Arriaga (30p COVID)
Time	Paper ID	Authors	Title
10:45	HPC-2021-307	M. Darvish1, H. Bahrehmand1 and M. Bahrami1 <i>1 Laboratory for Alternative Energy Conversion, Simon Fraser Un., Canada</i>	<i>An analytical design tool for pin fin sorber bed heat and mass exchanger</i>
11:05	HPC-2021-308	Camila Dávila1*, Nicolas Paulus1 and Vincent Lemort1 <i>1University of Liège, Thermodynamics Laboratory, Liège, Belgium</i>	<i>Experimental Investigation of a Gas Driven Absorption Heat Pump and In-Situ Monitoring</i>
11:25	HPC-2021-309	AL-Hasni. Shihab1and Santori. Giulio1 <i>1The University of Edinburgh, School of Engineering Edinburgh, Scotland, UK</i>	<i>3D printed adsorption heat transformer</i>
11:45	HPC-2021-310	T. Toppi1, M. Aprile1, M. Motta1, 2, S. Vasta3, W. Mittelbach4 and A. Freni2 <i>1Department of Energy, Politecnico di Milano 2CNR ICCOM - Istituto di Chimica dei Composti Organometallici, Pisa 3CNR ITAE - Istituto di Tecnologie Avanzate per l'Energia, Messina 4Sorption Technologies GmbH, Freiburg, Germany</i>	<i>Testing of a falling-film evaporator for adsorption chillers</i>

A-1 - THERMODYNAMIC CYCLES III			
		Chair: Kai Wang	Auditorium Baroja (70p COVID)
Time	Paper ID	Authors	Title
10:45	HPC-2021-410	M. Aps1 F. Durmus B. Atakan <i>University of Duisburg-Essen, Duisburg, Germany</i>	<i>Theoretical investigation of the potential of capillary heat exchangers in heat pumps</i>
11:05	HPC-2021-411	M. Preißinger <i>Vararberg University of Applied Sciences</i>	<i>Predictive maintenance in thermal power plants: a systematic literature survey</i>
11:25	HPC-2021-408	G. Prokhorskii1*, V. Seiler1, C. Steigh1, M. Netzer2 and M. Preißinger1 <i>Vararberg University of Applied Sciences, Austria 2Bertsch Energy GmbH & Co KG Vararberg, Austria</i>	<i>Failure detection in a water treatment system of a biomass CHP</i>
11:50	HPC-2021-414	J. Castresana1,2*, G. Gabiña1, L. Martin2, Z. Uriondo2 <i>1 AZTI, Marine Research, Basque Research and Technology Alliance, Spain 2 Department of Thermal Engineering, University of the Basque Country UPV/EHU</i>	<i>Artificial Neural Network based marine diesel engine modelling</i>

12:15 - 13:15 Lunch

13:15		Auditorium Michelena (140p COVID) Keynote Presentation Zacharie Tamainot-Telto Warwick University - UK	Chair: TBD <i>Adsorption Heat Pumps: Challenges and Future Perspectives</i>
-------	--	---	---

A1. Special Session: The Energy in the Post-Covid Scenario			
	Chair: TBD		Auditorium Michelena (140p COVID)

Time			
14:00 - 15:30	<i>This is a discussion panel with industrial and key specialist from the energy market.</i>		

15:30 - 16:00 Coffee, Tea, Refreshments, Snacks			
--	--	--	--

A-2 - SORPTION CYCLES IV			
	Chair: TBD		Auditorium Arriaga (30p COVID)

Time	Paper ID	Authors	Title
16:00	HPC-2021-311	Vaclav Novotny1*, Jan Spale1, Jan Pavlicko1, Jan Novotny1 Michal Kolovratnik1 1Czech Technical University in Prague	<i>Experience From the Operation of an Absorption Power Cycle with LiBr Working Fluid and its Prospects for Future</i>
16:20	HPC-2021-312	S.J. Metcalf1*, A.M. Rivero-Pacho1 and R.E. Critoph1 1School of Engineering, University of Warwick, Coventry, UK	<i>Testing of a Carbon-Ammonia Gas-Fired Heat Pump</i>
16:40	HPC-2021-313	G.H. Atkinson, R.E. Critoph*, and S. Hinners School of Engineering, University of Warwick, UK	<i>Ammonia-Salt Reactions for Heat Pumping and Thermal Transforming Applications</i>
17:00	HPC-2021-315	Stefan Petersen1*, Walther Hüls Guido1 1TU Berlin, Institut für Energietechnik, Berlin Germany	<i>Control of solution flow rate in single stage absorption chillers</i>
17:20	HPC-2021-316	S. Strelova1,2, L. Gordeeva1*, A. Grekova1 and Yu. Aristov1 1 Borekov Institute of Catalysis, Novosibirsk, Ac. Lavrentiev Novosibirsk State University 2 Novosibirsk State University, Novosibirsk, Pirogova str. 2, 630090, Russia	<i>Composite sorbents Salt/MIL-101(Cr) for atmospheric water harvesting</i>

Poster Session			
	Chair: TBD		Room Laboa (110 m2)

Time	Paper ID	Authors	Title
16:00 - 17:30	Posters will be organized in this session		

A-1 - THERMODYNAMIC CYCLES IV

Chair: TBD

Auditorium Bareja (70p COVID)

Time	Paper ID	Authors	Title
16:00	HPC-2021-413	Jan Spale ^{1*} , Vaclav Novotny ¹ , Andreas P. Weiß ^{1,2} , Michal Kolovratnik ¹ <i>¹Czech Technical University in Prague</i> <i>²University of Applied Sciences Amberg-Weiden, Germany</i>	<i>Experimental Development of Additively Manufactured Plastic Turboexpanders towards an Application in the ORC</i>
16:20	HPC-2021-412	Florian Raab ^{1*} , Harald Klein ² , Frank Opferkuch ¹ <i>¹Technische Hochschule Nuernberg Gerag Simon Ohm</i> <i>²Technische Universitaet Muenchen</i>	<i>A Steam Rankine Cycle pilot plant for Distributed High Temperature Waste Heat Recovery</i>
16:40	HPC-2021-418	M. Glushenkov, A. Kronberg <i>Encantech B.V. TNW/SPT, AE Enschede, The Netherlands</i>	<i>Efficiency of vapor use in vapor-driven compressors</i>
17:00	HPC-2021-419	Andres Giraldo ^{1*} , Michel Delanaye ² and Vincent Lemort ³ <i>^{1,3}University of Liege, Belgium</i> <i>²MITIS SA, Belgium</i>	<i>Experimental testing of micro-CHP for decentralized energy production</i>
17:20	HPC-2021-421	M. Noro ^{1*} , S. Mancin ¹ and R. Riehl ² <i>¹University of Padova, Italy</i> <i>²National Institute for Space Research, Brazil</i>	<i>Annual energy analysis of a trigeneration solar system using radiative cooling in Mediterranean climate</i>
20:00 - 21:30	Guided Tour - Gugenheim Museum		
21:30	Gala Dinner		

9TH HEAT POWERED CYCLES CONFERENCE
University of the Basque Country
Bilbao, Spain, 19-22 September 2021

22-Sep-21

8:30	Registration	Hall
9:30	Chair: TBD Keynote Presentation Yuri Aristov <i>Boreskov Institute of Catalysis - Russia</i>	Auditorium Michelena (140p COVID) <i>Adsorption for Energy Conversion and Storage: What Have We Learned over the Past Decade?</i>

10:15 - 10:45 *Coffee Break*

A-3 - Heat and Mass Transfer II			
		Chair: TBD	Auditorium Arriaga (30p COVID)
Time	Paper ID	Authors	Title
10:45	HPC-2021-204	S. Roosjen1*, M. Glushenkov2, A. Kronberg2 and S.R.A. Kersten1 <i>1 SPT/TNW, University of Twente, The Netherlands</i> <i>2 Encontech B.V. TNW/SPT, The Netherlands</i>	<i>Waste heat recovery systems with isobaric expansion technology using pure and mixed working fluids</i>
11:05	HPC-2021-205	M. Glushenkov, A. Kronberg <i>Encontech B.V. TNW/SPT, The Netherlands</i>	<i>Experimental study of an isobaric expansion engine-pump</i>
11:25	HPC-2021-206	G. Lopez-Ruiz1;2, I. Álava1, J. M. Blanco <i>1 Ikerlan Technology Research Centre, Spain</i> <i>2 School of Engineering Bilbao, Dept. of Energy Engineering, Spain</i>	<i>Numerical study on the influence of different H2/CH4 mixtures and excess air levels in micromix-type burners for industrial boilers</i>
11:45	HPC-2021-207	M. Jäger <i>TU Berlin, Marchstr. 18, 10587 Berlin, Germany</i>	<i>The influence of the contact area size on the effective thermal conductivity of random packed beds with stagnant gas</i>

A-1 - THERMODYNAMIC CYCLES V			
		Chair: TBD	Auditorium Baroja (70p COVID)
Time	Paper ID	Authors	Title
10:45	HPC-2021-208	I. Girnik1*, Y. Aristov1 <i>1 Boreskov Institute of Catalysis, Russia</i>	<i>Effect of residual air on dynamics of temperature-and pressure-initiated adsorption cycles for heat transformation</i>
11:05	HPC-2021-209	M. van der Pal1*, K. Ingenwepelt2 R. de Boer1 <i>1 TNO Energy Transition, Westerdinweg 3, 1755 LE, Petten, The Netherlands</i> <i>2 Hochschule Düsseldorf, University of Applied Sciences, Münsterstraße 156, 40476 Düsseldorf, Germany</i>	<i>Development of a latent heat storage for industrial application based on adipic acid - graphite composite</i>
11:25	HPC-2021-422	Francis Huntingford Dr Wigdan Kisha <i>Nottingham University, UK</i>	<i>Algorithmic optimization of the electrical power output of a low-cost, multicore thermoacoustic engine with varying resonator pressure</i>
11:45	HPC-2021-423	M. Mazzetti G. Skaugen <i>Sintef Energy Research, Kolbjørn Hejjes vei 1D, 7034 Trondheim, Norv</i>	<i>Electro Deionization for treatment of Condensate of Steam Bottoming Cycles</i>

12:15 - 13:15 *Lunch*