

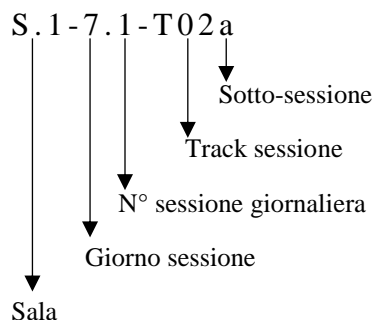
Programma tecnico

Sessioni

T01	Trasmissione del calore e termofluidodinamica
T02	Energetica degli edifici e impianti, automazione
T03	Sistemi di climatizzazione e produzione del freddo
T04	Sostenibilità ambientale nei sistemi energetici
T05	Sistemi avanzati di conversione, accumulo e recupero dell'energia
T06	Energie alternative e rinnovabili
T07	Turbomacchine
T08	Combustibili e combustione
T09	Sistemi innovativi di propulsione e motori a c.i.
T10	Sistemi pneumatici e oleodinamici
T11	Poster

			SALA 1 - Giotto	SALA 2 - Donatello	SALA 3 - Masaccio	SALA 4 - Botticelli	SALA 5 - Leandro
07/09/2017	08:45	10:15	S.1-7.1-T02a	S.2-7.1-T09a	S.3-7.1-T07a	S.4-7.1-T01a	S.5-7.1-T06a
07/09/2017	14:45	16:45	S.1-7.2-T02b	S.2-7.2-T09b	S.3-7.2-T04a	S.4-7.2-T05a	S.5-7.2-T06b
07/09/2017	17:05	19:05	S.1-7.3-T02c 6	S.2-7.3-T09c	S.3-7.3-T10a	S.4-7.3-T05b	S.5-7.3-T06c
08/09/2017	14:00	16:00	S.1-8.1-T02d + T03a	S.2-8.1-T09d	S.3-8.1-T07b	S.4-8.1-T01b	S.5-8.1T08a

Codici delle sessioni



Registrazione	6 settembre: 12,00-18,00 Centro Congresso Hotel Tiziano (CCHT)
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Giorno 1 - 6 settembre

12,00-13,00	Riunione del Consiglio Annuale ATI (Sala 4 – Botticelli (50 posti))
13,00-14,00	Assemblea Generale ATI (Sala 4 – Botticelli (50 posti))
13,00-16,00	Riunione dei SSD Macchine e Sistemi per l'Energia e l'Ambiente (Sala M1 – Caravaggio (200 posti))
16,30-19,00	Cerimonia d'inaugurazione e sessione plenaria: le sfide energetiche del prossimo futuro (Sala M1 – Caravaggio (200 posti))
19,10-20,00	Trasferimento in bus al museo MUST di Lecce
20,00-22,30	Cocktail di benvenuto con visita del museo MUST e della città

Giorno 2 - 7 settembre

08,45-10,15	Sessioni tecniche				
	S.1-7.1-T02a	S.2-7.1-T09a	S.3-7.1-T07a	S.4-7.1-T01a	S.5-7.1-T06a
10,20-11,50	Tavola Rotonda Dottorandi Macchine e Sistemi Energetici (Prof. Martelli e Prof. Napolitano) (Sala 2 – Donatello (100 posti))				
10,20-11,50	Riunione di due gruppi di docenti di Fisica Tecnica (Prof. Polonara e Prof. De Santoli) (Sala 5 – Leandro (100 posti))				
11,50-12,00	Coffee break				
12,05-13,30	Tavola rotonda: “La Progettazione di Edifici Smart e ad Energia Zero: Sfide e Prospettive Future” (Prof. P. Baggio) (Sala 2 – Donatello (100 posti))				
12,05-13,30	Tavola rotonda: “Sistemi ibridi di propulsione e motori a combustione interna” (Prof. A. Ficarella) (Sala 5 – Leandro (100 posti))				
13,35-14,35	Light lunch presso il Grand Hotel Tiziano				
14,45-16,45	Sessioni tecniche				
	S.1-7.2-T02b	S.2-7.2-T09b	S.3-7.2-T04a	S.4-7.2-T05a	S.5-7.2-T06b
14,45-17,00	Sessione poster				
16,30-18,30	Direttivo di Fisica Tecnica (Sala 6 – Cimabue (20 posti))				
16,50-17,00	Coffee break				
17,05-19,05	Sessioni tecniche				
	S.1-7.3-T02c	S.2-7.3-T09c	S.3-7.3-T10a	S.4-7.3-T05b	S.5-7.3-T06c
20,30-22,30	Cena sociale presso ex Convento degli Olivetani e concerto				

Giorno 3 - 8 settembre						
09,00-10,30	Sessione Plenaria: Consiglio Nazionale degli Ingegneri (Sala M1 – Caravaggio (200 posti))					
10,30-10,45	Coffee Break					
10,50-12,20	Sessione Plenaria. Ing R. Basosi: “Gli indirizzi per l'Energia della Unione Europea, l'impegno Italiano in Horizon 2020 e nel SET Plan e le opportunità di fondi EU nel nuovo WP 2018-19" (Sala M1 – Caravaggio (200 posti))					
12,30-14,00	Light lunch presso il Grand Hotel Tiziano					
14,10-16,10	Sessioni tecniche					
	<table border="1"> <tr> <td>S.1-8.1-T02d + T03a</td> <td>S.2-8.1-T09d</td> <td>S.3-8.1-T07b</td> <td>S.4-8.1-T01b</td> <td>S.5-8.1T08a</td> </tr> </table>	S.1-8.1-T02d + T03a	S.2-8.1-T09d	S.3-8.1-T07b	S.4-8.1-T01b	S.5-8.1T08a
S.1-8.1-T02d + T03a	S.2-8.1-T09d	S.3-8.1-T07b	S.4-8.1-T01b	S.5-8.1T08a		
17,30-18,30	Cocktail di saluto presso il Grand Hotel Tiziano. Chiusura Convegno.					

Giorno 4 - 9 settembre	
9,00	Gita turistica organizzata da agenzia per coloro che si iscrivono

Programma tecnico dettagliato

07/09/2017				
S.1-7.1-T02a - Energetica degli edifici e impianti, automazione (Sala 1 - Giotto)				
Chairmen: Francesco Martellotta, Livio De Santoli				
Ora	ID	Autore referente	Autori	Titolo
08:45-10:15	26	PISELLO Anna Laura	FABIANI C, COTANA F	New experimental technique to investigate the thermal behavior of PCM-doped concrete for enhancing thermal-energy storage capability of building envelope
	180	DI TURI Silvia	RUGGIERO F	Re-interpretation of an ancient passive cooling strategy: a new system of wooden lattice openings
	11	ZUCCARI Fabrizio	SANTIANGELI A, ORECCHINI F	Energy analysis of swimming pools for sport activity: cost effective solutions for efficiency improvement
	56	FRANCHINI Giuseppe	BRUMANA G, PERDICIZZ A	Design and Performance Prediction of an Energy+ Building in Dubai
	206	SARO Onorio	DE ANGELIS A, TRUANT T	Evaporative Cooling System To Improve Internal Comfort In Industrial Building

07/09/2017				
S.2-7.1-T09a - Sistemi innovativi di propulsione e motori a c.i. (Sala 2 - Donatello)				
Chairmen: Fabio Bozza, Gian Marco Bianchi				
Ora	ID	Autore referente	Autori	Titolo
08:45-10:15	9	BOVA Sergio	BELLI M, CASTIGLIONE T	A novel approach to the thermal management of internal combustion engines
	99	MATTARELLI Enrico	CANTORE G, RINALDINI C A, SAVIOLI T	Combustion system development of an opposed piston 2-stroke Diesel engine
	130	FORNARELLI Francesco	CAMPOREALE S M, DADDUZIO R, FORTUNATO B, TORRESI M	Numerical simulations of the flow field and chemical reactions of the storage/oxidation process within a NSC Pt-BaO catalyst
	52	D'ORRICO Fabrizio	BERTON A, SIDERI M	3D Simulation Methodology for n-Butanol Combustion in an optical accessible research GDI Engine
	17	DONATEO Teresa	GIOVINAZZI M	Building a cycle for Real Driving Emissions
	87	BERTON Andrea	D'ORRICO F, SIDERI M	Overset Grids for Fluid Dynamics Analysis of Internal Combustion Engines
	156	ARSIE Ivan	ROSSOMANDO B, PIANESE C	Analysis of the impact of Diesel-Ethanol fuel blends on CI engine performance and emissions via multi-zone combustion modelling

07/09/2017				
S.3-7.1-T07a - Turbomacchine (Sala 3 - Masaccio)				
Chairmen: Pietro De Palma, Raffaele Tuccillo				
Ora	ID	Autore referente	Autori	Titolo
08:45-10:15	81	GAMANNOSSI Andrea	GAMANNOSSI A, MAZZEI L, WINCHLER L, ABBA L, VAGNOLI S, PICCHI A, CARCASI C, ANDREINI A	Experimental and CFD analyses of a highly-loaded gas turbine blade
	146	BARIGOZZI Giovanna	ABDEH H, MIRANDA M , ROUINA S	Development of PSP Technique for Vane Film Cooling Investigations
	67	ANGELINI Gino	BONANNI T, CORSINI A, DELIBRA G, TIEGHI L, VOLPONI D	Design and optimization of an axial fan for air cooled condensers
	43	LETO Angelo	BONFIGLIOLI A	Preliminary Design of a Radial Turbine for Methane Expander Rocket Engine
	6	CARAMIA Giovanni	DADONE A	A Discrete Adjoint Formulation for Inviscid Flow Nozzle Optimization
	66	GIUNTINI Sabrina	ANDREINI A, CAPPUCCINI G, FACCHINI B	Finite element transient modelling for whole engine-secondary air system thermomechanical analysis

07/09/2017				
S.4-7.1-T01a - Trasmissione del calore e termofluidodinamica (Sala 4 - Botticelli)				
Chairmen: Ubaldo Ayr, Gianpiero Colangelo				
Ora	ID	Autore referente	Autori	Titolo
08:45-10:15	127	DISTASO Elia	AMIRANTE R, TAMBURRANO P, CLODOVEO M L, PETTINICCHIO D, PADUANO A	Acoustic cavitation by means ultrasounds in the extra virgin olive oil extraction process
	10	TIBERI Emilio	BURLON F, FURLANETTO R, MICHELI D, SIMONATO M	Transient model of a Professional Oven
	16	MAURO Stefano	LANZAFAME R, MESSINA M, BRUSCA S	Heat Exchange Numerical Modeling of a Submarine Pipeline for Crude Oil Transport
	51	DIANA Alessandra	BUONOMO B, MANCA O, NARDINI S	Local Thermal Non-Equilibrium Investigation on Natural Convection in Horizontal Channel Heated from Above and Partially Filled with Aluminum Foam

07/09/2017				
S.5-7.1-T06a - Energie alternative e rinnovabili (Sala 5 - Leandro)				
Chairmen: Antonio Perdichizzi, Francesco Fornarelli				
Ora	ID	Autore referente	Autori	Titolo
08:45-10:15	72	STEFANIZZI Michele	TORRESI M, FORTUNATO B, CAMPOREALE S M	Experimental investigation and performance prediction modeling of a single stage centrifugal pump operating as a turbine
	135	MALVONI Maria	CONGEDO P M, DEGIORGI M G	Study of degradation of a grid connected photovoltaic systems by comparative analysis of measured and simulated performance
	168	MANNI Alessandro	CODIGNOLE LUZ F, CORDINER S, MULONE V, ROCCO V	Pyrolysis in screw reactors: a 1-D numerical tool
	131	AMIRANTE Riccardo	ROSSINI G, TAMBURRANO P, DISTASO E	Design of a novel open space test rig for small scale wind turbines
	4	CAMPARI Enrico Gianfranco	BIANCHI M, TOMESANI L	Boron as a storage medium for solar energy
	145	MAZZEO Domenico	OLIVETI G, BAGLIVO C, CONGEDO P M, PRETE F	Energetic and economic optimization of a grid-connected photovoltaic/wind hybrid system with battery storage for residential buildings in Mediterranean climate
	157	ROVENSE Francesco	AMELIO M, SCORNAIENCHI M, FERRARO V	Performance analysis of a solar-only gas micro turbine, with mass flow control

07/09/2017				
S.1-7.2-T02b - Energetica degli edifici e impianti, automazione (Sala 1 - Giotto)				
Chairmen: Francesco Martellotta, Marco Beccali				
Ora	ID	Autore referente	Autori	Titolo
14:45-16:45	83	BONOMOLO Marina	BAGLIVO C, BIANCO G, BECCALI M, CONGEDO P M	Cost optimal analysis of lighting retrofit scenarios in educational buildings in Italy
	160	AZUMA Hiroshi	MAGNANI S	Compared analysis of the economic and environmental benefits given by the use of an energy management system in different European Countries
	153	MARTELLOTTA Francesco	AYR U, STEFANIZZI P, SACCHETTI A, RIGANTI G	On the use of artificial neural networks to model household energy consumptions
	177	SCARPA Massimiliano	RAVAGNIN R, SCHIBUOLA L, TAMBANI C	Development and testing of a platform aimed at pervasive monitoring of indoor environment and building energy
	193	PAIOLO Romano	DE SANTOLI L, LO BASSO G	An overview on safety issues related to hydrogen and methane blend applications in domestic and industrial use

07/09/2017		S.2-7.2-T09b - Sistemi innovativi di propulsione e motori a c.i. (Sala 2 - Donatello)			
		Chairmen: Giuseppe Cantore, Ivan Arsie			
Ora	ID	Autore referente	Autori	Titolo	
14:45-16:45	41	TEODOSIO Luigi	BOZZA F, TUFANO D	Development of a virtual calibration methodology for a downsized SI engine by using advanced valve strategies	
	82	SIANO Daniela	PANZA M A	Sound Quality Analysis of the Powertrain Booming Noise in a Diesel Passenger Car	
	111	BARTOLUCCI Lorenzo	CORDINER S, MULONE V, ROCCO V	LES analysis of the mixing process in a natural gas fueled engine under Partial Stratified Charge operating conditions - comparison against the Constant Volume Combustion Chamber case	
	120	PALMIERI Fulvio	CHIAVOLA O	On a modified VCO nozzle layout for diesel common rail injectors under actual needle displacement	
	61	STRAFELLA Luciano	FICARELLA A, CARLUCCI P A, SANTINO A, JALILIAN TABAR F	Cynara cardunculus and Coffee grounds as promising biodiesel sources for internal combustion compression ignition engines	
	75	SANNINO Raniero	GIMELLI A	Thermodynamic model validation of Capstone C30 micro gas turbine	
	78	SIDERI matteo	BERTON A, D'ORRICO F	Assessment of the wall heat transfer in 3D-CFD in cylinder simulations of a high performance diesel engine	
	204	FROSINA Emma	CAPUTO C, DI LORENZO G, PASCARELLA C, SENATORE A	Modelling of a Hybrid-Electric Light Aircraft	

07/09/2017		S.3-7.2-T04a - Sostenibilità ambientale nei sistemi energetici (Sala 3 - Masaccio)			
		Chairman: Alessandro Corsini, Giacobbe Braccio			
Ora	ID	Autore referente	Autori	Titolo	
14:45-16:45	63	MUCCILLO Massimiliano	GIMELLI A, SANNINO R	Effects of uncertainties on the stability of the results of an optimal sized modular cogeneration plant	
	118	BENATO Alberto	MACOR A, ROSSETTI A	Biogas engine emissions: standards and on-site measurements	
	47	GALOPPI Giovanni	FERRARI L, FERRARA G, CARNEVALE E A	Experimental investigation on industrial drying process of cotton yarn bobbins: energy consumption and drying time	
	108	FEUDO Sara	BONACINA F, CIMA E, CORSINI A, TORTORA E	Water supply system energy rating using multivariate analysis	
	33	FAMOSO Fabio	BRUSCA S, LANZAFAME R, MESSINA M, MONFORTE P	Placement optimization of biodiesel production plant by means of centroid mathematical method	
	102	DI MARIA Francesco	SISANI F	Substitution of agro-energetic biomasses with bio-waste in an existing anaerobic digestion facility: Energetic and carbon footprint in a LCA perspective	
	161	DANTI Piero	MAGNANI S	Effects of the load forecasts mismatch on the optimized schedule of a real small-size smart prosumer	

07/09/2017				
S.4-7.2-T05a - Sistemi avanzati di conversione, accumulo e recupero dell'energia (Sala 4 -				
Chairmen: Gianni Bidini, Giovanni Lozza				
Ora	ID	Autore referente	Autori	Titolo
14:45-16:45	194	CAMPOREALE Sergio	BUFI E, FORTUNATO B, FORNARELLI F, PANTALEO A M, SORRENTINO A, TORRESI M	Parametric optimization of an organic Rankine cycle for distributed heat and power generation
	129	FORNARELLI Francesco	CAMPOREALE S M, CEGLIE V, FORTUNATO B, MILIOZZI A, ORESTA P, TORRESI M	Numerical simulation of a complete charging-discharging phase of a shell and tube thermal energy storage with phase change material
	133	FASANO Matteo	ALBERGHINI M, ASINARI P, BORRI D, CARDELLINI A, CHIAVAZZO E, MORCIANO M	Multiscale simulation of heat and mass transfer properties of nanostructured materials for solar thermal energy storage
	163	ARENA Simone	CABEZA L F, CASTI E, CAUG, GASIA J	Numerical simulation of a finned-tube LHTES system: influence of the mushy zone constant on the phase change behaviour
	184	DAMBROSIO Lorenzo	CAMPOREALE S M, FORNARELLI F, FORTUNATO B, TORRESI M	Performance optimization of syngas power plant
	39	DI BATTISTA Davide	CARAPPELLUCCI R, CIPOLLONE R	Modeling and characterization of molten carbonate fuel cell for electricity generation and carbon dioxide capture

07/09/2017				
S.5-7.2-T06b - Energie alternative e rinnovabili (Sala 5 - Leandro)				
Chairmen: Stefania Cherubini, Teresa Donato				
Ora	ID	Autore referente	Autori	Titolo
14:45-16:45	104	DI MARIA Francesco	LASAGNI M	On line measurement of the lower heating value of waste and of the energetic efficiency of an existing waste to energy plant: Identification of uncertainties associated to probes and their influence on the results
	132	CANNAVALE Alessandro	AYR U, MARTELLOTTA F	Energetic and visual comfort implications of using perovskite-based building-integrated photovoltaic glazings
	170	DAMBROSIO Lorenzo		Data-based fuzzy logic control technique applied to a wind system
	24	GIOVANNELLI Ambra	BASHIR M A	High-temperature cavity receiver integrated with a short-term storage system for Solar MGTs
	190	GHISU Tiziano	CAMBULI F, PUDDU P, VIRDIS I	On the Hysteretic Behaviour of Wells Turbines

07/09/2017				
S.1-7.3-T02c - Energetica degli edifici e impianti, automazione (Sala 1 - Giotto)				
Chairmen: Marco Beccali, Paolo Congedo				
Ora	ID	Autore referente	Autori	Titolo
17:05-19:05	85	BAGLIVO Cristina	BECCALI M, BONOMOLO M, CONGEDO P M	Sizing and optimization analysis of interior lighting using tubular daylighting devices
	115	STEFANIZZI Pietro	CASCIONE V, MARRA E, ZIRKELBACH D, LIUZZI S	Hygrothermal analysis of Technical Solutions for Insulating the Building Envelope
	138	LIUZZI Stefania	RUBINO C, STEFANIZZI P	Use of clay and olive pruning waste for building materials with high hygrothermal performances
	139	LIUZZI Stefania	SANARICA S, STEFANIZZI P	Use of agro-wastes in building materials in the Mediterranean area: a review
	116	DI TURI Silvia	CONVERTINO F, STEFANIZZI P	The color in the vernacular bioclimatic architecture in Mediterranean region
	122	MARTELLOTTA Francesco	CANNAVALE A, AYR U	Comparing energy performance of different semi-transparent, building-integrated photovoltaic cells applied to "reference" buildings
	23	CASTALDO Veronica Lucia	COTANA F, PIGLIAUTILE I, PISELLO A L, ROSSO F	How non-physical parameters can affect the thermal and visual comfort of occupants: the case of an office building in central Italy

07/09/2017				
S.2-7.3-T09c - Sistemi innovativi di propulsione e motori a c.i. (Sala 2 - Donatello)				
Chairmen: Sergio Bova, Sergio M Camporeale				
Ora	ID	Autore referente	Autori	Titolo
17:05-19:05	18	CORTI Enrico	TACCIOLI M, MAROGNA L, CAVINA N, RAVAGLIOLI V	Model-based Control of Intake Air Temperature and Humidity on the Test Bench
	21	BONACINA Fabrizio	CORSINI A, FEUDO S, VENTURINI P, MARCHEGGIANI A	Internal Combustion Engine sensor network analysis using graph modeling
	58	ZOFFOLI Lorenzo	CORTI E, MORO D, PONTI F, RAVAGLIOLI V	Zero-Dimensional Model for Dynamic Behavior of Engineered Rubber in Automotive Applications
	171	VITTORINI Diego	CIPOLLONE R, DI BATTISTA D	Experimental assessment of engine charge air cooling by a refrigeration unit
	117	CHIAVOLA Ornella	PALMIERI F, RECCO E	Turbocharger speed estimation via vibration measurements for combustion sensing
	183	MILANESE Marco	KNAUER M, COLANGELO G, LAFORGIA D, DE RISI A	Numerical Optimization of SPR Sensor for Lube Oil Real-Time Analysis
	207	ZARDIN Barbara	SAVIOLI T, BORGHI M	Combustion system optimization of a 2-stroke GDI engine

07/09/2017				
S.3-7.3-T10a - Sistemi pneumatici e oleodinamici (Sala 3 - Masaccio)				
Chairmen: Antonio Lippolis, Massimo Borghi				
Ora	ID	Autore referente	Autori	Titolo
17:05-19:05	19	CASOLI Paolo	BEDOTTI A, CAMPANINI F, PASTORI M, RICCO' L	Energy Saving Solutions for a Hydraulic Excavator
	109	ZARDIN Barbara	BORGHI M, CILLO G, RINALDINI C A, MATTARELLI E	Design of two-stage on/off cartridge valves for mobile applications
	119	BENATO Alberto	ROSSETTI A, MACOR A, BETTIO Z	Study and simulation of hydraulic hybrid powertrains
	148	CARDONE Massimo	GARGIULO B	Experimental analysis and thermo-fluid-dynamic simulation of a reciprocating compressor with non-conventional crank mechanism
	37	RUNDO Massimo	ALTARE G	Comparison of Analytical and Numerical Methods for the Evaluation of the Flow forces in Conical Poppet Valves with Direct and Reverse Flow
	57	SIANO Daniela	FROSINA E, SENATORE A	Diagnostic process by using vibrational sensors for monitoring cavitation phenomena in a Getoror pump used for automotive applications
	173	LIPPOLIS Antonio	FORNARELLI F, ORESTA P, POSA A	An investigation of swash plate control for axial piston pump

07/09/2017				
S.4-7.3-T05b - Sistemi avanzati di conversione, accumulo e recupero dell'energia (Sala 4 -				
Chairmen: Antonio Ficarella, Massimo Milani				
Ora	ID	Autore referente	Autori	Titolo
17:05-19:05	38	DE PASCALE Andrea	BIANCHI M, BRANCHINI L, OTTAVIANO S, ORLANDINI V, PINELLI M, SPINA P R, SUMAN A, PERETTO A, MELINO F	Experimental Investigation with Steady-State Detection in a Micro- ORC Test Bench
	71	GALVAGNO Antonio	BRUSCA S, CHIODO V, LANZAFAME R, MAISANO S, PRESTIPINO M	Energy performance of CHP system integrated with citrus peel air-steam gasification: a comparative study
	80	GIUFFRIDA Antonio	PEZZUTO D	Assessing the performance of a scroll expander with a selection of fluids suitable for low-temperature applications
	188	TACCANI Rodolfo	CHINESE T, ZULIANI N	Performance analysis of a micro CHP system based on high temperature PEM fuel cells subjected to degradation
	202	VILLARINI Mauro	CIOCCOLANTI L, TASCIONI R, BOCCI E	Optimization of a solar trigeneration system for residential applications by means of a modelling study
	203	MASTROPASQU A Luca	CAMPANARI S, SPINELLI M, PAGANONI A	Preliminary design of a MW-class demo plant for CO2 capture with MCFC in a university campus cogeneration plant

07/09/2017				
S.5-7.3-T06c - Energie alternative e rinnovabili (Sala 5 - Leandro)				
Chairmen: Paolo Carlucci, Paolo Oresta				
Ora	ID	Autore referente	Autori	Titolo
17:05-19:05	8	BARBARELLI Silvio	AMELIO M, FLORIO G, SCORNAIENCHI N M	Procedure Selecting Pumps Running as Turbines in Micro Hydro Plants
	44	BIANCHINI Alessandro	BALDUZZI F, FERRARA G, FERRARI L, GENTILUOMO D	Potential of the Virtual Blade Model in the analysis of wind turbine wakes using wind tunnel blind tests
	69	BRUSCA Sebastian	GALVAGNO A, LANZAFAME R, MAURO S, MARINO CUGNO GARRANO A, MESSINA M	On the turbine-induced damping in Oscillating Water Column wave energy converter
	186	BONALUMI Davide	BOMBARDA P A, INVERNIZZI C M	Zero Emission Geothermal Flash Steam Power Plant
	150	DE ROBBIO R	TUCCILLO R, PIRONE E,CAMERETTI M C	Thermo-Economic Analysis of a hybrid solar micro gas-turbine power plant
	92	PECORINI Isabella	FERRARI L, BALDI F, ALBINI E, GALOPPI G, BACCHI D, VIZZA F, LOMBARDI L, CARCASCIO C, FERRARA G, CARNEVALE E	Energy recovery from fermentative biohydrogen production of biowaste: a case study based analysis
	124	GREPPI Matteo	FABBRI G	Experimental characterization of a hybrid industrial solar tile

08/09/2017				
S.1-8.1-T02d + T03a - Energetica degli edifici e impianti, automazione + Sistemi di climatizzazione e produzione del freddo (Sala 1 - Giotto)				
Chairmen: Giuseppe Starace, Pietro Stefanizzi				
Ora	ID	Autore referente	Autori	Titolo
14:00-16:00	134	MALVONI Maria	CONGEDO P M, LAFORGIA D	Analysis of energy consumption in an italian winery
	15	CIRILLO Luca	CASCETTA F, NARDINI S, DI LORENZO R	A Trnsys Simulation of a Solar-Driven Air Refrigerating System for a Low-Temperature Room of an Agro-Industry site in the Southern part of Italy
	189	STARACE Giuseppe	FIorentino M	Sensitivity Analysis of Evaporative Condensers Performance Using an Experimental Approach

08/09/2017				
S.2-8.1-T09d - Sistemi innovativi di propulsione e motori a c.i. (Sala 2 - Donatello)				
Chairmen: Riccardo Amirante, Sergio M Camporeale				
Ora	ID	Autore referente	Autori	Titolo
14:00-16:00	27	ADOLFO Dominique	BERTINI D, CARCASI C, GAMANNOSSI A	Thermodynamic Analysis of an Aircraft Engine to estimate performance and emissions at LTO cycle
	97	ORTENZI Fernando	ALESSANDRINI A, CIGNINI F, STAM D, PEDE G	Advantages of retrofitting old buses and minibuses
	201	BALSAMO Flavio	CAPASSO C, MICCIONE G, VENERI O	Hybrid Storage System Control Strategy for All-Electric Powered Ships
	88	FERRARA Giovanni	BALDUZZI F, ROMANI L, VICHI G, BIANCHINI A	Fine-tuning of a two stroke engine in full power configuration provided with a Low Pressure Direct Injection system

08/09/2017				
S.3-8.1-T07b - Turbomacchine (Sala 3 - Masaccio)				
Chairmen: Bernardo Fortunato, Marco Torresi				
Ora	ID	Autore referente	Autori	Titolo
14:00-16:00	70	PINELLI Michele	ALDI N, BURATTO C, CASARI N, DAINESI D, RANDI S, SPINA P R, MAZZANTI V, MOLLIKA F, MUNARI E, OCCARI M, SUMAN A	Experimental and Numerical Analysis of a Non-Newtonian Fluids Processing Pump
	95	PESCINI elisa	SUMA A, DE GIORGI M G, FRANCIOSO L, FICARELLA A	Optimization of plasma actuator excitation waveform and materials for separation control in turbomachinery
	90	LORUSSO Michele	CAMPOREALE S M, CAPURSO T, FORNARELLI F, FORTUNATO B, MONTERISO R, TORRESI M	Efficient CFD evaluation of the NPSH for centrifugal pumps
	105	CAPURSO Tommaso	CAMPOREALE S M, FORTUNATO B, LOPEZ M, LORUSSO M, PASCAZIO G, TORRESI M	Numerical investigation of cavitation on a NACA0015 hydrofoil by means of OpenFOAM
	14	BURLON Fabio	CUCIT V, FURLANETTO R, MICHELI D, SIMONATO M	Influence of Polymer Solution on Pump Performances

08/09/2017				
S.4-8.1-T01b - Trasmissione del calore e termofluidodinamica (Sala 4 - Botticelli)				
Chairmen: Gianpiero Colangelo, Ubaldo Ayr				
Ora	ID	Autore referente	Autori	Titolo
14:00-16:00	73	HABIB Emanuele	CIANFRINI M, DE LIETO VOLLARO R	Definition of parameters useful to describe dynamic thermal behavior of hollow bricks
	176	MANCA Oronzio	ANDREOZZI A, BUONOMO B, DI PASQUA A	Heat Transfer Behaviors of Parallel Plate Systems in Sensible Thermal Energy Storage
	113	DE GIORGI Maria Grazia	FICARELLA A, FONTANAROSA D	Implementation and validation of an extended Schnerr–Sauer cavitation model for non-isothermal flows in OpenFOAM
	149	BONELLI Francesco	COLONNA G, CUTRONE L, PASCAZIO G, TUTTAFESTA M	Numerical Investigation of High Enthalpy Flows

08/09/2017				
S.5-8.1-T08a - Combustibili e combustione (Sala 5 - Leandro)				
Chairmen: Arturo De Risi, Francesco Fornarelli				
Ora	ID	Autore referente	Autori	Titolo
14:00-16:00	62	PAMPALONI Daniele	BERTINI D, PUGGELLI S, MAZZEI L, ANDREINI A	Methane swirl-stabilized lean burn flames: assessment of scale resolving simulations
	164	DE PALMA Pietro	CHERUBINI S, FARANO M, MANCINI C, ROBINET J	Global stability analysis of diffusion flames
	208	LARANCI Paolo	FANTOZZI F, ZAMPILLI M, D'AMICO M, BARTOCCI P, BIDINI G	Geometry optimization of a commercial annular RQL combustor of a micro gas turbine for use with natural gas and vegetal oils
		SAPONARO Alessandro	FORTUNATO L, FERRANTE A	Powerfull CCA testing capability
		BISCARDI Federico	FAUSONE S	Bruciatori sperimentali VeLoNOx per la combustione di gas naturale e gas petrolchimico

Sessione poster

7 SETTEMBRE ORE 14,45-16,45

T11 Poster			
Chairman: Marco Torresi			
ID	Autore referente	Autori	Titolo
7	GOLASI Iacopo	COPPI M, DE LIETO VOLLARO E, SALATA F	The degradation of ammonia in absorption thermal machines
13	COLUCCI Chiara	GRIGNAFFINI S, MAURI L, ROMAGNA M, VALLATI A, KANNA R, CEDOLA L	Influence of the façades convective heat transfer coefficients on the thermal energy demand for an urban street canyon building
25	RICCI Elisa	HABIB E, CORCIONE M, QUINTINO A	Natural convection from a pair of differentially-heated horizontal cylinders aligned side by side in a nanofluid-filled square cavity
29	STRAFELLA Luciano	CARLUCCI P A, FICARELLA A, LAFORGIA D	Combustion and performance characteristics of air-fuel mixtures ignited by means of photo-thermal ignition of Nano-Energetic Materials
30	GAMANNOSSI Andrea	ADOLFO D, BERTINI D, CARCASCI C	Analysis of the GT26 single-shaft gas turbine performance and emissions
31	MANNI Mattia	TECCE R, PETROZZI A, COCCIA V, CAVALAGLIO G, NICOLINI A	Architectural and energy refurbishment of the headquarter of the University of Teramo
32	TARSITANO Anna	CIANCIO V, COPPI M	Conditioning of residential buildings through the use of absorption systems powered by solar collectors
35	GIACOMELLI Francesco	MAZZELLI F, MILAZZO A	CFD modelling of the condensation inside a cascade of steam turbine blades: comparison with an experimental test case
36	MAZZELLI Federico	GIACOMELLI F, MILAZZO A	CFD modelling of steam condensation inside a supersonic nozzle: implementing customized wet-steam model in commercial codes
49	TUFANO Daniela		A quasi-dimensional SI combustion model: a bi-fractal approach
60	MAZZEI Lorenzo	PUGGELLI S, ANDREINI A, BERTINI D, PAMPALONI D	Modelling soot production and thermal radiation for turbulent diffusion flames
74	MAURI Luca	CARNIELO E	Opaque construction materials solar loads calculation: Dependence on directional reflectance
79	MORRONE Pietro Paolo	SETTINO J, ALGIERI A, SANT T, MICALLEF C, FARRUGIA M, LICARI J, SPITIERI-STAINES C, MICALLEF A	Integration of Organic Rankine Cycle (ORC) and Photovoltaic (PV) unit for micro-scale CCHP applications in residential sector

94	BAGLIVO Cristina	CONGEDO P M	An innovative solution to increase the performances of an air-cooled heat pump by horizontal air-ground heat-exchangers
103	MANCINI Francesco	CARBONARA E, FRAIOLI S, CLEMENTE C	Energy and environmental retrofitting of the University building of Orthopaedic and Traumatological Clinic within Sapienza Città Universitaria
110	FONTANAROSA Donato	DE GIORGI M G, DONATEO T, SCALINCI L, FICARELLA A, MORABITO A E	Numerical investigation of the performance of Contra-Rotating Propellers for a Remotely Piloted Aerial Vehicle
112	BATTISTA Gabriele		Analysis of the Air Pollution Sources in the city of Rome
114	FALCONE Nicolo'	BERSANO A, BERTANI C, DE SALVE M, PANELLA B	Characterization of water-air dispersed two phase flow
125	DONATEO Teresa	SPEDICATO L, PLACENTINO D P	Design of hybrid electric power system for multicopter and performance evaluation
126	GREPPI Matteo	FABBRI G	Thermal Characterization of Radiative and Convective Heating Devices
128	DISTASO Elia	AMIRANTE R, REITZ R D, TAMBURRANO P	Analytical Correlations for Modeling the Laminar Flame Speed of Natural Gas Surrogate Mixtures
136	MALVONI MARIA	DE GIORGI M G, CONGEDO P M	Forecasting of PV Power Generation using weather input data-preprocessing techniques
137	TAMBURRANO Paolo	AMIRANTE R, DISTASO E, DE PALMA P, LA SCALA M	Thermodynamic analysis and experimental plant of a combined cycle for small-scale cogeneration from carbon neutral biomass
141	DI FRAIA Simona	MASSAROTTI N, MAURO A, NITHIARASU P	Heat and fluid flow in electro-osmotically driven systems
147	FRAGIACOMO Petronilla	PIRAINO F	Energy Performance of a Fuel Cell Hybrid System for a Rail Vehicle Propulsion

152	DE ROBBIO Roberta		Innovative combustion analysis of a micro-gas turbine burner supplied with hydrogen-natural gas mixtures
155	MASSELLI Claudia	GRECO A, MAIORINO A, APREA C	A two-dimensional model of a solid state regenerator based on combined electrocaloric-elastocaloric effect
158	MURANO Giovanni	BALLARINI I, DIRUTIGLIANO D, PRIMO E, CORRADO V	The significant imbalance of nZEB energy need for heating and cooling in Italian climatic zones
165	NAPOLITANO Marialuisa	DRAGONETTI R, ROMANO R	A method to optimize the regenerator parameters of a thermoacoustic engine
166	SERRA Valentina	FANTUCCI S	Low emittance surfaces to increase the energy efficiency of opaque buildings envelopes: potentials, limits and open questions
195	SPOLETINI Enrico		Levelized Cost Of Energy (LCOE) analysis of a low temperature PCM thermal storage combined with a micro-CHP in an apartment block
196	CARBONARA Elisa	SFORZINI V, TIBERI M	Sustainable requalification in restricted area: the case study of Flaminio stadium in Rome
198	BERGHI Saverio		Energy use in Urban Transport sector within the Sustainable Energy Action Plans (SEAPs) of Three Italian Big Cities
200	MORETTI Elisa	BURATTI C, PALLADINO D	Prediction of indoor conditions and thermal comfort using CFD simulations: a case study based on experimental data