

UIT HEAT TRANSFER CONGRESS – BRESCIA, JUNE 21-23, 2010

DETAILED TECHNICAL PROGRAM

KEYNOTE LECTURES

- Azzopardi B.J., Abdulkareem L.A., Sharaf S., Abdulkadir M., Ijioma A.**
USING TOMOGRAPHY TO INTERROGATE GAS LIQUID FLOW Monday, June 21, 10:00
- Ciofalo M., Di Liberto M.**
UNSTEADY TURBULENCE: PHENOMENA AND MODELLING Wednesday, June 23, 9:30
- Wang E.N., Xiao R., Chu K.-H.**
NANOENGINEERED SURFACES: TRANSPORT PHENOMENA AND THERMAL MANAGEMENT APPLICATIONS Tuesday, June 22, 9:00

Topic A - SINGLE-PHASE FLUID FLOW AND HEAT TRANSFER

- Ahmad N., Mishra M.**
UNSTEADY BOUNDARY LAYER FLOW AND HEAT TRANSFER OVER A STRETCHING SHEET
Poster #11, Wednesday, June 23, 10:30
- Ambrosini D., Di Biase R., Paoletti D., Ponticiello A.**
DOE SCHARDIN'S SCHLIEREN #2 IN PIV-MODE: A PERFORMANCE ANALYSIS
Poster #12, Wednesday, June 23, 10:30
- Angeli D., Pagano A., Corticelli M.A., Fichera A., Barozzi G.S.**
FLOW TRANSITIONS AND BIFURCATIONS OF BUOYANCY-INDUCED FLOWS FROM AN ENCLOSED CYLINDRICAL HEAT SOURCE
Poster #3, Wednesday, June 23, 10:30
- Arnas A.Ö.**
THE ROLE OF THERMODYNAMICS IN HEAT TRANSFER ANALYSES
Poster #4, Wednesday, June 23, 10:30
- Cuccurullo G., D'Agostino V., Di Giuda R., Senatore A., Spingi V.**
AN ANALYTICAL SOLUTION FOR TEMPERATURE RISE AT THE INTERFACE OF DRY SLIDING SURFACES FOR UNEVEN FRICTION
Poster #5, Wednesday, June 23, 10:30
- Fustinoni D., Gramazio P., Niro A.**
EXPERIMENTAL RESULTS ON FORCED-CONVECTION HEAT TRANSFER INSIDE A WAVY CHANNEL
Poster #6, Wednesday, June 23, 10:30
- Latini G., Sotte M.**
THERMAL CONDUCTIVITY OF ORGANIC COMPOUNDS: A NEW RELATION IN THE TEMPERATURE RANGE T_r 0.30 ÷ 0.95
Poster #7, Wednesday, June 23, 10:30 and Oral Presentation, Monday, June 21, 13:30
- Misale M., Devia F.**
ANALYSIS OF THE EFFECTS OF HEAT SINK TEMPERATURE ON SINGLE-PHASE NATURAL CIRCULATION LOOPS BEHAVIOUR
Poster #15, Wednesday, June 23, 10:30
- Mosaad M.**
CONJUGATE POROUS FREE CONVECTION AND FORCED CONVECTION
Poster #9, Wednesday, June 23, 10:30

Rainieri S., Bozzoli F., Pagliarini G.

HEAT TRANSFER PERFORMANCE OF SPIRALLY ENHANCED TUBES FOR TEMPERATURE
DEPENDENT PROPERTIES FLUIDS

Poster #4, Tuesday, June 22, 10:00

Sabin M., Piva S.

ANALISI TEORICO-SPERIMENTALE DI UNA COLD PLATE A LIQUIDO PER PONTI RADIO FM

Poster #10, Wednesday, June 23, 10:30

Topic B - TWO-PHASE AND MULTI-PHASE FLUID FLOW, HEAT TRANSFER, AND INTERFACE PHENOMENA

Antonini C., Marengo M.

DROP IMPACT ON NON-WETTABLE SURFACES

Poster #5, Tuesday, June 22, 10:00

Arosio S., Guilizzoni M.

A CORRELATION BETWEEN VOID FRACTION, LIQUID SUPERFICIAL VELOCITY AND FLOW
COMPLEXITY FOR TWO-PHASE FLOWS IN DUCTS WITH SINGULARITIES

Poster #6, Tuesday, June 22, 10:00

Arras S., Di Marco P., Macchia L., Risimini E.

EXPERIMENTAL STUDY ON THE EFFECT OF ELECTRIC FIELD ON SPRAY ATOMIZATION

Poster #7, Tuesday, June 22, 10:00

Barletta A., Rossi di Schio E., Celli M.

INSTABILITY OF THE BRINKMAN FLOW WITH VISCOUS HEATING IN A HORIZONTAL
POROUS LAYER

Poster #8, Tuesday, June 22, 10:00

Bertani C., Grosso D., Malandrone M., Panella B.

DEFLUSSO BIFASE DI MISCELE ARIA-ACQUA IN UNA GIUNZIONE A T ORIZZONTALE PER
ELEVATE VELOCITÀ SUPERFICIALI DELLA FASE LIQUIDA

Poster #9, Tuesday, June 22, 10:00

Boccardi G., Bubbico R., Celata G.P., Di Tosto F., Trinchieri R.

PERDITE DI CARICO CONCENTRATE E RIPARTITE IN EFFLUSSO BIFASE: CONFRONTO TRA LE
PREVISIONI DI CORRELAZIONI TEORICHE E DATI SPERIMENTALI

Poster #10, Tuesday, June 22, 10:00

Cossali G.E., Tonini S.

HEAT AND MASS TRANSFER MODELLING OF WATER DROPLETS IN HOT GASEOUS
ENVIRONMENT

Poster #11, Tuesday, June 22, 10:00

Da Riva E., Del Col D.

FILM CONDENSATION IN HORIZONTAL MINICHANNEL: APPLICATION OF THE VOF METHOD

Poster #12, Tuesday, June 22, 10:00

Di Fede F., Poesio P., Beretta G.P.

ONE-DIMENSIONAL ENERGY BALANCE EQUATION FOR A NON-IDEAL LIQUID-LIQUID
MIXTURE UNDERGOING PHASE SEGREGATION IN A SMALL DIAMETER PIPE

Oral Presentation, Monday, June 21, 15:45

Filippeschi S., Franco A.

EXPERIMENTAL ANALYSIS OF TWO-PHASE HEAT AND MASS TRANSFER IN SMALL
DIMENSIONS NATURAL-CIRCULATION LOOPS

Poster #13, Tuesday, June 22, 10:00

Gori F., Ciparisse J.-F., Corasaniti S.

NUMERICAL SIMULATION OF THE SUPERSONIC FLUID-DYNAMIC FIELD AND OF THE
ABLATIVE PHENOMENON FOR A HEAT SHIELD

Poster Cancelled

Longo G.A., Storato S.

HC-1270 (PROPYLENE) VAPORISATION INSIDE A BRAZED PLATE HEAT EXCHANGER

Poster #14, Tuesday, June 22, 10:00

Parissenti G., Niro A.

THERMAL MODELLING OF LASER ABLATION SIMULATION BY NUMERICAL SOLUTION OF A THREE PHASE STEPHAN PROBLEM

Poster #15, Tuesday, June 22, 10:00 and Oral Presentation, Monday, June 21, 15:45

Poesio P., Sotgia G., Strazza D.

HIGH VISCOSITY OIL-WATER-AIR THREE PHASE FLOWS: PRESSURE DROP AND BUBBLE DYNAMIC

Poster #16, Tuesday, June 22, 10:00

Santangelo P.E., Corticelli M.A., Tartarini P.

THERMAL INTERACTION BETWEEN TWO DROPLETS IN SINGLE-PHASE EVAPORATION

Poster #17, Tuesday, June 22, 10:00

Topic C - COMPUTATIONAL FLUID FLOW AND HEAT TRANSFER

Andreozzi A., Bianco N., Manca O., Masullo G., Matrone A., Nardini S., Naso V., Tamburrino S.

CONVECTIVE HEAT TRANSFER IN SOLAR RECEIVER FOR HIGH TEMPERATURE APPLICATIONS

Poster #18, Wednesday, June 23, 10:30

Angeli D., Barozzi G.S., Errico O., Stalio E., Tartarini P.

DIRECT NUMERICAL SIMULATION OF FORCED CONVECTION OVER STEPS AT LOW PRANDTL NUMBER

Poster #3, Monday, June 21, 14:30 and Oral Presentation, Tuesday, June 22, 13:30

Bassenghi F., Bornia G., Cervone A., Manservisi S., Scardovelli R.

EXTENDED BOUNDARY APPROACH FOR OPTIMAL CONTROL OF INCOMPRESSIBLE STEADY MHD EQUATIONS

Poster #1, Monday, June 21, 14:30

Bassenghi F., Bornia G., Cervone A., Manservisi S., Scardovelli R.

A COMPARISON BETWEEN A PRESSURE PROJECTION METHOD AND A FULLY COUPLED MULTIGRID FEM NAVIER-STOKES SOLVER

Poster #2, Monday, June 21, 14:30 and Oral Presentation, Tuesday, June 22, 11:00

Buonomo B., Manca O., Mesolella P., Nardini S.

NUMERICAL STUDY ON MIXED CONVECTION IN POROUS MEDIA IN A CHANNEL WITH A LATERAL OPEN CAVITY

Poster #20, Wednesday, June 23, 10:30

Calgaro B., Ambrosini W., Andreussi A.

PREDICTION OF PRESSURE LOSSES AND LIQUID HOLDUP IN HORIZONTAL STRATIFIED AND STRATIFIED-WAVY GAS-LIQUID FLOW IN A PIPE

Poster #1, Tuesday, June 22, 10:00 and Oral Presentation, Tuesday, June 22, 11:00

Del Giudice S., Savino S., Nonino C.

FORCED CONVECTION IN LAMINAR DUCT FLOWS OF LIQUIDS WITH TEMPERATURE DEPENDENT PROPERTIES: A SIMPLIFIED APPROACH

Poster #4, Monday, June 21, 14:30

Magnini M., Pulvirenti B.

NUMERICAL STUDY OF VAPOR BUBBLE GROWING IN SUPERHEATED LIQUID

Poster #19, Tuesday, June 22, 10:00 and Oral Presentation, Tuesday, June 22, 11:00

Monaco G., Mongibello L., de Luca L.

WALL COOLING BY MEANS OF SYNTHETIC AND CONTINUOUS JETS

Poster #2, Tuesday, June 22, 10:00 and Oral Presentation, Tuesday, June 22, 11:00

Morgut M., Nobile E.

ASSESSMENT AND TUNING OF CFD CAVITATION MODEL PARAMETERS USING ADVANCED OPTIMIZATION TECHNIQUES

Poster #18, Tuesday, June 22, 10:00 and Oral Presentation, Tuesday, June 22, 11:00

Schiavi L., Bozzoli F., Rainieri S., Pagliarini G.

PARAMETER ESTIMATION PROCEDURE FOR GEOTHERMAL APPLICATIONS

Poster #3, Tuesday, June 22, 10:00 and Oral Presentation, Tuesday, June 22, 11:00

Sciacovelli A., Borchiellini R., Verda V.

MULTISCALE APPROACH FOR THE OPTIMAL DESIGN OF FLUID DISTRIBUTION SYSTEMS IN A MCFC STACK
Poster #5, Monday, June 21, 14:30 and Oral Presentation, Tuesday, June 22, 13:30

Stipcich G., Piller M., Zovatto L.

DEVELOPMENT AND APPLICATION OF HIGH-ORDER DISCONTINUOUS CVFEM ALGORITHMS
Poster #6, Monday, June 21, 14:30 and Oral Presentation, Tuesday, June 22, 13:30

Zonta F., Marchioli C., Soldati A.

VARIABLE-VISCOSITY EFFECTS IN TURBULENT CHANNEL FLOW
Oral Presentation, Tuesday, June 22, 13:30

Topic D - MICRO-THERMOFLUIDICS, NANOFLUIDS, FERROFLUIDS

Akbarinia A., Laur R.

TWO DIMENSIONAL FORCED CONVECTION NANOFLUIDS FLOW IN MICROCHANNEL USING SLIP VELOCITY AND JUMP TEMPERATURE BOUNDARY CONDITIONS
Oral Presentation, Monday, June 21, 15:45

Celata G.P., Cumo M., Lattanzi A., Mariani A., Saraceno L.

FLOW BOILING HEAT TRANSFER OF FC-72 IN A MICROTUBE
Poster #1, Wednesday, June 23, 10:30

Celata G.P., Cumo M., Dossevi D., Jilisen R.T.M., Saha S.K., Zummo G.

FLOW PATTERN ANALYSIS OF FLOW BOILING INSIDE A MICROTUBE
Poster #2, Wednesday, June 23, 10:30

Djajadiwinata E., al-Ansary H., al-Dakkan K., al-Jariwi A.

ESTIMATION OF EFFECTIVENESS OF USING NANOFLUIDS FLOWING INSIDE A CIRCULAR TUBE FOR HEAT TRANSFER APPLICATIONS
Poster #8, Wednesday, June 23, 10:30

Kalteh M., Abbassi A., Saffar-Avval M., Harting J.

NANOPARTICLE SIZE EFFECT ON THE CONVECTIVE HEAT TRANSFER OF A NANOFLUID FLOW INSIDE A MICROCHANNEL
Oral Presentation, Monday, June 21, 15:45

Lorenzini M., Morini G.L.

EFFICIENZA DI ALETTA IN MICRO CANALI SOGGETTI A VALORI DEL COEFFICIENTE DI SCAMBIO TERMICO CONVETTIVO LOCALMENTE VARIABILI
Poster #14, Wednesday, June 23, 10:30

Manca O., Nardini S., Ricci D.

NUMERICAL ANALYSIS OF NANOFLUIDS FORCED CONVECTION IN CHANNELS WITH TRANSVERSE RIBS
Poster #19, Wednesday, June 23, 10:30

Misale M., Devia F., Garibaldi P., Cioli D.

EXPERIMENTS WITH AL₂O₃ NANOFLUID IN A SINGLE-PHASE NATURAL CIRCULATION MINI-LOOP: PRELIMINARY RESULTS
Poster #16, Wednesday, June 23, 10:30

Morini G.L., Lorenzini M.

INFLUENZA DELLA DISSIPAZIONE VISCOSA SULLO SCAMBIO TERMICO LAMINARE IN MICRO GEOMETRIE A SPIGOLI ARROTONDATI
Poster #13, Wednesday, June 23, 10:30

Spiga M., Vocale P.

SLIP FLOW IN CONVEZIONE NATURALE
Poster #17, Wednesday, June 23, 10:30

Topic E - HEAT TRANSFER IN FISSION AND FUSION NUCLEAR POWER PLANTS

Aquaro D.

HEAT TRANSFER IN PEBBLE BEDS

Poster #7, Monday, June 21, 14:30

Bandini G., Lombardo C., Manservigi S., Meloni P., Polidori M., Scardovelli R., Vestrucci P., Zaccarelli M.

SVILUPPO DI UN MODELLO TERMO-FLUIDODINAMICO DELL'IMPIANTO SPERIMENTALE SPES-99 CON IL CODICE DI SISTEMA NUCLEARE CATHARE

Poster #8, Monday, June 21, 14:30

Casamirra M., Castiglia F., Giardina M., Morana G., De Salve M., Orio M., Panella B.

RELAP5 SIMULATION OF TWO-PHASE FLOW EXPERIMENTS IN VERTICAL HELICAL TUBES

Poster #9, Monday, June 21, 14:30

D'Angelo M.G., Di Maio P.A., Paradiso D., Vella G.

ON THE NUMERICAL ASSESSMENT OF THE THERMAL-HYDRAULIC BEHAVIOUR OF ITER UPPER PORT PLUG MAIN BODY COOLING CIRCUIT

Poster #10, Monday, June 21, 14:30

Forgione N., Napoli A., Palazzo S., Tarantino M., Labanti V., Gaggini P., Venturi G.

NUMERICAL SIMULATION OF NATURAL AND GAS ENHANCED CIRCULATION TESTS PERFORMED WITH NACIE LOOP

Poster #11, Monday, June 21, 14:30

Manzini G., Parozzi F.

FAST REACTOR SAFETY - SODIUM POOL FIRE MODELING

Poster #12, Monday, June 21, 14:30

Mazzini G., Manfredini A.

ANALYSIS OF THE THERMAL-HYDRAULIC AND AEROSOLS BEHAVIOUR IN THE PHEBUS CONTAINMENT VESSEL DURING THE FPT1 TEST USING MELCOR AND ASTEC CODES

Poster #13, Monday, June 21, 14:30 and Oral Presentation, Monday, June 21, 11:30

Visca E., Pizzuto A., Roccella S.

TECNOLOGIE PER LA COSTRUZIONE DI COMPONENTI AD ALTO FLUSSO TERMICO PER REATTORI A FUSIONE

Poster #14, Monday, June 21, 14:30

Topic F - HEAT TRANSFER IN ENERGY SYSTEMS AND ENVIRONMENTAL TECHNOLOGIES

Aleknaviciute I., Collins M.W., Cosgrove J., Karayiannis T.G.

HYDROCARBON CRACKING AND THE USE OF NON-THERMAL PLASMAS: CONCISE REVIEW OF CRUDE OILS AND PLASMAS

Poster #3, Tuesday, June 22, 14:30

Aleknaviciute I., Collins M.W., Cosgrove J., Karayiannis T.G.

HYDROCARBON CRACKING AND THE USE OF NON-THERMAL PLASMAS: CORONA DISCHARGE AND ITS APPLICATION

Poster #4, Tuesday, June 22, 14:30

Allesina G., Tartarini P.

A STAND-ALONE STANDING-WAVE THERMOACOUSTIC REFRIGERATOR

Poster #1, Tuesday, June 22, 14:30 and Oral Presentation, Monday, June 21, 11:30

Balocco C., Liò P.

TRANSIENT AIR FLOW SIMULATION FOR CONTROLLING VIRUS DIFFUSION IN AN ISOLATION ROOM: A CASE STUDY

Poster #15, Tuesday, June 22, 14:30

Bottarelli M.

ANALISI NUMERICA DI UNA SONDA GEOTERMICA ORIZZONTALE

Poster #5, Tuesday, June 22, 14:30

Briola S., Di Marco P., Marcelli A.

ANALISI DEL THERMAL RESPONSE TEST PER SONDE GEOTERMICHE

Poster #6, Tuesday, June 22, 14:30

- Casano G., Piva S.**
ANALISI PARAMETRICA DELLE PRESTAZIONI DI UN GENERATORE TERMOELETTRICO
Poster #7, Tuesday, June 22, 14:30
- De Salve M., Milani D., Panella B., Roveta G.**
LIQUEFAZIONE DELL'AZOTO: UN IMPIANTO PROTOTIPO
Poster #8, Tuesday, June 22, 14:30
- Fabbri G., Lorenzini M.**
ANALISI TERMICA DI LAMPADE A RISPARMIO ENERGETICO
Poster #9, Tuesday, June 22, 14:30
- Formisano A., Morrone B.**
OPTIMAL DESIGN AND COOLING OF BITTER MAGNETS
Poster #10, Tuesday, June 22, 14:30
- Fustinoni D., Bagnoli P., Faggian G., Fumero R., Costantino M.L.**
EXPERIMENTAL INVESTIGATION ON PERIPHERAL PERFUSION BY IR THERMOGRAPHY ON PATIENTS UNDERGOING CARDIAC SURGERY WITH EXTRACORPOREAL CIRCULATION (ECC)
Poster #11, Tuesday, June 22, 14:30
- Fustinoni D., Nason F., Dubini G., Niro A.**
CHARACTERIZATION OF AN INNOVATIVE POLYMERASE CHAIN REACTION DEVICE BASED ON BUOYANCY DRIVEN FLOW BY MEANS OF IR THERMOGRAPHY
Poster #12, Tuesday, June 22, 14:30
- Grassi W., Testi D.**
HEAT TRANSFER PROMOTION BY ELECTRIC FIELDS IN A COOLANT FOR SPACECRAFT THERMAL CONTROL
Poster #13, Tuesday, June 22, 14:30
- Invernizzi C., Incerti G., Lezzi A.M., Mazzù A., Parmigiani S., Petrocelli D., Villa V., Zani D.**
DISTRIBUTED ELECTRICITY GENERATION USING AN EXTERNAL COMBUSTION RINGBOM-STIRLING ENGINE HEATED BY AGRICULTURAL WASTES
Poster #20, Tuesday, June 22, 14:30 and Oral Presentation, Monday, June 21, 11:30
- Lazzari S., Priarone A., Zanchini E.**
EFFECT OF GROUNDWATER MOVEMENT ON THE LONG TERM EFFICIENCY OF BOREHOLE HEAT EXCHANGERS
Poster #14, Tuesday, June 22, 14:30
- Libbra A., Muscio A., Tartarini P.**
ANALISI DELLE DINAMICHE DI TRANSIZIONE DI FASE IN MATERIALI PER ACCUMULO TERMICO INCAPSULATI
Poster #2, Tuesday, June 22, 14:30
- Paganini D., Piazzini S., Presciani A.**
DESIGN AND REALIZATION OF A BLACK-BODY CAVITY RECEIVER FOR MEASUREMENT OF CONCENTRATED SOLAR RADIATION THROUGH ADAPTIVE MIRRORS
Poster #19, Tuesday, June 22, 14:30 and Oral Presentation, Monday, June 21, 11:30
- Parissenti G., Niro A.**
POWER DISSIPATION IN HEAVY METALS RECOVERY FROM INCINERATOR ASHES
Poster #17, Tuesday, June 22, 14:30
- Petrone G., Cammarata G., Cammarata L.**
NUMERICAL INVESTIGATION ON VENTILATION AND INDOOR AIR QUALITY IN AIRCRAFT CABINS
Poster #18, Tuesday, June 22, 14:30
- Scarpa F., Tagliafico L.A.**
OPTIMAL CONTROL CRITERIA FOR GAS-BURNER INTEGRATED SOLAR ASSISTED HEAT PUMPS
Poster #16, Tuesday, June 22, 14:30

Topic G - HEAT TRANSFER IN BUILDINGS

Belpoliti V., Bizzarri G., Ligabue G., Montanari F.

SCENARI DI ENERGY RETROFIT DEL PATRIMONIO EDILIZIO RESIDENZIALE PUBBLICO:
POLITICHE ENERGETICHE E RIDUZIONE DELLE EMISSIONI DI CO2 NELLA REGIONE EMILIA
ROMAGNA

Poster #15, Monday, June 21, 14:30 and Oral Presentation, Monday, June 21, 13:30

Borioli P., Pilotelli M.

EFFECT OF TEST CONDITIONS ON THE EXPERIMENTAL DETERMINATION OF THERMAL
CONDUCTIVITY OF WALLS BY MEANS OF HEAT FLOW METERS

Oral Presentation, Monday, June 21, 13:30

Fabbri K., Tronchin L., Tarabusi V.

ENERGY PERFORMANCE OF BUILDINGS: CONSUMPTION AND METHODOLOGIES

Poster #16, Monday, June 21, 14:30

Guidi M., Lorenzini M., Valdiserri P.

L'UTILIZZO DEI SOFTWARE COMMERCIALI COME STRUMENTI DI PROGETTO PER EDIFICI A
BASSO CONSUMO ENERGETICO

Poster #19, Monday, June 21, 14:30

Luscietti D., Lezzi A.M.

SULLA STIMA DEI PONTI TERMICI IN PANNELLI DI TAMPONAMENTO PREFABBRICATI

Oral Presentation, Monday, June 21, 13:30

Mariani R., Moretti E., Barbanera M.

PRESTAZIONI TERMICHE DI INFISSI IN LEGNO: ANALISI NUMERICA E RISULTATI
SPERIMENTALI

Poster #18, Monday, June 21, 14:30

Spiga M., Vocale P.

ANALISI TERMICA DI UNA PARETE VENTILATA

Poster #17, Monday, June 21, 14:30

Valdiserri P., Biserni C.

PRESTAZIONI ENERGETICHE E ANALISI DI REDDITIVITA' CON RIFERIMENTO AD UN
IMPIANTO A PANNELLI SOLARI PER LA PRODUZIONE D'ACQUA CALDA SANITARIA

Poster #20, Monday, June 21, 14:30

UIT HEAT TRANSFER CONGRESS – BRESCIA, JUNE 21-23, 2010

CONGRESS PROGRAM

Monday, June 21, 2010

- 8:30 – 9:30 **Registration**
- 9:30 – 9:45 **Welcome Address**
- 9:45 – 10:00 **UIT Best Thesis Prize in Memory of Claudio Pisoni: Announcement of the 2009 Winner**
- 10:00 – 11:00 **Keynote Lecture by Prof. Barry Azzopardi on *Using Tomography to Interrogate Gas Liquid Flow***
- 11:00 – 11:30 **Coffee Break**
- 11:30 – 12:30 **Presentations by Doctoral Students: 1 to 4**
- 12:30 – 13:30 **Lunch**
- 13:00 – 13:30 **Poster Preparation - Topics C+E+G**
- 13:30 – 14:30 **Presentations by Doctoral Students: 5 to 8**
- 14:30 – 15:45 **Coffee Break & Poster Discussion - Topics C+E+G**
- 15:45 – 16:45 **Presentations by Doctoral Students: 9 to 12**
- 16:45 – 17:00 **Poster Removal - Topic C+E+G**

- 18:15 **Bus departs to Visit of the Distillerie Franciacorta in Borgonato di Cortefranca and Social Dinner hosted by chef Stefano Cerveni at the Antico Borgo San Vitale**
- 23:00 **Bus returns to Brescia**

Tuesday, June 22, 2010

- 8:30 – 9:00 **Poster Preparation - Topic B**
- 9:00 – 10:00 **Keynote Lecture by Prof. Evelyn Wang on *Nanoengineered Surfaces: Transport Phenomena and Thermal Management Applications***
- 10:00 – 11:00 **Coffee Break & Poster Discussion - Topic B**
- 11:00 – 12:30 **Presentations by Doctoral Students: 13 to 18**
- 12:30 – 13:30 **Lunch**
- 12:30 – 12:45 **Poster Removal - Topic B**
- 13:00 – 13:30 **Poster Preparation - Topic F**
- 13:30 – 14:30 **Presentations by Doctoral Students: 19 to 22**
- 14:30 – 15:30 **Coffee Break & Poster Discussion - Topic F**
- 15:30 – 18:00 **Assemblea Generale Soci UIT**
- 18:00 – 18:15 **Poster Removal - Topic F**
- 19:30 **Bus departs to Gala Dinner hosted by chef Giuseppe Maffioli at the Carlo Magno Restaurant in Collebeato**
- 22:00 **Before dessert, UIT president will announce the winner of the Student Presentations Contest**
- 23:30 **Bus returns to Brescia**

Wednesday, June 23, 2010

- 9:00 – 9:30 **Poster Preparation - Topics A + D**
- 9:30 – 10:30 **Keynote Lecture by Prof. Michele Ciofalo on *Unsteady Turbulence: Phenomena and Modelling***
- 10:30 – 11:30 **Coffee Break & Poster Discussion -Topics A+D**
- 11:30 – 12:30 **Round Table and Discussion on *Future Perspectives of Heat Transfer Research***
- 12:30 – 13:30 **Lunch**
- 13:30 **Congress Ends**

STUDENT PRESENTATION CONTEST

MONDAY MORNING 11:30 – 12:30

PRESENTATION	SECTION	PAPER	PRESENTER
1	F	A STAND-ALONE STANDING-WAVE THERMOACOUSTIC REFRIGERATOR	Allesina
2	F	DISTRIBUTED ELECTRICITY GENERATION USING AN EXTERNAL COMBUSTION RINGBOM-STIRLING ENGINE HEATED BY AGRICULTURAL WASTES	Parmigiani
3	F	DESIGN AND REALIZATION OF A BLACK-BODY CAVITY RECEIVER FOR MEASUREMENT OF CONCENTRATED SOLAR RADIATION THROUGH ADAPTIVE MIRRORS	Paganini
4	E	ANALYSIS OF THE THERMAL-HYDRAULIC AND AEROSOLS BEHAVIOUR IN THE PHEBUS CONTAINMENT VESSEL DURING THE FPT1 TEST USING MELCOR AND ASTEC CODES	Mazzini

MONDAY AFTERNOON 13:30 – 14:30

PRESENTATION	SECTION	PAPER	PRESENTER
5	A	THERMAL CONDUCTIVITY OF ORGANIC COMPOUNDS: A NEW RELATION IN THE TEMPERATURE RANGE T_r 0.30 ÷ 0.95	Sotte
6	G	SULLA STIMA DEI PONTI TERMICI IN PANNELLI DI TAMPONAMENTO PREFABBRICATI	Luscietti
7	G	SCENARI DI ENERGY RETROFIT DEL PATRIMONIO EDILIZIO RESIDENZIALE PUBBLICO: POLITICHE ENERGETICHE E RIDUZIONE DELLE EMISSIONI DI CO ₂ NELLA REGIONE EMILIA ROMAGNA	Belpoliti
8	G	EFFECT OF TEST CONDITIONS ON THE EXPERIMENTAL DETERMINATION OF THERMAL CONDUCTIVITY OF WALLS BY MEANS OF HEAT FLOWMETERS	Borioli

MONDAY AFTERNOON 15:45 – 16:45

PRESENTATION	SECTION	PAPER	AUTHOR
9	B	THERMAL MODELLING OF LASER ABLATION SIMULATION BY NUMERICAL SOLUTION OF A THREE PHASE STEPHAN PROBLEM	Parissenti
10	B	MONO-DIMENSIONAL ENERGY BALANCE EQUATION FOR A NONIDEAL LIQUID-LIQUID MIXTURE UNDERGOING PHASE SEGREGATION IN A SMALL CIRCULAR PIPE	Di Fede
11	D	TWO DIMENSIONAL FORCED CONVECTION NANOFLUIDS FLOW IN MICROCHANNEL USING SLIP VELOCITY AND JUMP TEMPERATURE BOUNDARY CONDITIONS	Akbarinia
12	D	NANOPARTICLE SIZE EFFECT ON THE CONVECTIVE HEAT TRANSFER OF A NANOFLUID FLOW INSIDE A MICROCHANNEL	Kalteh

STUDENT PRESENTATION CONTEST

TUESDAY MORNING 11:00 – 12:30

PRESENTATION	SECTION	PAPER	AUTHOR
13	C	A COMPARISON BETWEEN A PRESSURE PROJECTION METHOD AND A FULLY COUPLED MULTIGRID FEM NAVIER-STOKES SOLVER	Bassenghi
14	C	PREDICTION OF PRESSURE LOSSES AND LIQUID HOLDUP IN HORIZONTAL STRATIFIED AND STRATIFIED-WAVY GAS-LIQUID FLOW IN A PIPE	Calgaro
15	C	NUMERICAL STUDY OF VAPOR BUBBLE GROWING IN SUPERHEATED LIQUID	Magnini
16	C	WALL COOLING BY MEANS OF SYNTHETIC AND CONTINUOUS JETS	Monaco
17	C	ASSESSMENT AND TUNING OF CFD CAVITATION MODEL PARAMETERS USING ADVANCED OPTIMIZATION TECHNIQUES	Morgut
18	C	PARAMETER ESTIMATION PROCEDURE FOR GEOTHERMAL APPLICATIONS	Schiavi

TUESDAY AFTERNOON 13:30 – 14:30

PRESENTATION	SECTION	PAPER	AUTHOR
19	C	MULTISCALE APPROACH FOR THE OPTIMAL DESIGN OF FLUID DISTRIBUTION SYSTEMS IN A MCFC STACK	Sciacovelli
20	C	DEVELOPMENT AND APPLICATION OF HIGH-ORDER DISCONTINUOUS CVFEM ALGORITHMS	Stipcich
21	C	VARIABLE-VISCOSITY EFFECTS IN TURBULENT CHANNEL FLOW	Zonta
22	C	DIRECT NUMERICAL SIMULATION OF FORCED CONVECTION OVER STEPS AT LOW PRANDTL NUMBER	Errico