



44th Meeting of The Italian Section of The Combustion Institute Combustion for Sustainability Naples, June, 5-8, 2022

PROGRAM

WELCOME

The organizing committee wishes to thank you for attending the *44th Meeting of the Italian Section of the Combustion Institute – Combustion for Sustainability (June 5-8, 2022)*.

The annual meeting of the Italian Section of the Combustion Institute is aimed at giving the opportunity for exchange of expertise and discussion between scientists and technologists working in the field of combustion, in all its fundamental and applied aspects, with specific emphasis to low-emission and sustainable technologies. We hope you will have a productive meeting!

As for the last meetings, awards will be given to the best presentations or posters delivered by PhD students or young (non-permanent position) researchers during the meeting.

It is required for all participants to wear an FFP2 mask during the event.

Oral presentations: 15 min (recommended 12 min +3 min for Q&A), Poster presentation: A0 format

VENUE

Complesso dei SS. Marcellino e Festo

Largo S. Marcellino 10 – Napoli



Italian Section of The Combustion Institute

Associazione Sezione Italiana del Combustion Institute (ASICI)

P.le V. Tecchio, 80

80125 Napoli – Italia

ASICI website: www.combustion-institute.it

ACKNOWLEDGEMENTS



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Dipartimento
di Ingegneria Chimica,
dei Materiali e della
Produzione Industriale
Università degli Studi
di Napoli Federico II





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ORGANIZING COMMITTEE

Mario Commodo (STEMS-CNR)

Giancarlo Sorrentino (STEMS-CNR)

Antonio Tregrossi (STEMS-CNR)

Andrea D'Anna (University of Naples)

Gianluigi De Falco (University of Naples)

Fabrizio Scala (University of Naples)

SCIENTIFIC COMMITTEE

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Francesco Creta (Università la Sapienza)

Ernesto Salzano (Università di Bologna)

Stefano Cimino (STEMS – CNR)

Chiara Galletti (Università di Pisa)

Session I

Novel concepts including multi-physics phenomena

Session II

Novel concepts including Power-to-X and CCUS

Session III

Energy carriers: utilization, storage and safety

Session IV

Biomass and waste thermochemical processing

Session V

Engines & Propulsion

Session VI

Stationary and Solid fuel combustion systems

Session VII

Materials and flame synthesis

Session VIII

Numerical Combustion - part 1

Session IX

Numerical Combustion - part 2

Session X

Pollutants formation, monitoring and control



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Sunday, 5 June 2022 **44th Meeting of the Italian Section of the Combustion Institute**

18:00-20:00	Welcome Cocktail (Archivio Storico)
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Monday, 6 June 2022 **44th Meeting of the Italian Section of the Combustion Institute**

8:30-9:00	Registration		
9:00-9:15	Opening		
9:15-10:00	PLENARY LECTURE COMPLEXITIES IN HYDROGEN COMBUSTION <i>Prof. Heinz Pitsch</i> <i>Chair: Dr. Mario Commodo</i>		
10:00-10:15	Break/Transfer		
10:15-11:15	ORAL PRESENTATIONS		
	MAIN ROOM SESSION I: Novel concepts including multi-physics phenomena <i>Chair: Dr. Pino Sabia</i>		AULA G1 SESSION II: Novel concepts including Power-to-X and CCUS <i>Chair: Dr. Matteo Pelucchi</i>
10:15	I-1	CHARACTERIZATION OF FLAME BEHAVIOR AT DIFFERENT AIR PREHEATING TEMPERATURES IN PLASMA ASSISTED STABILIZED COMBUSTOR <i>S. Bonuso, G. Mehdi, M.G. De Giorgi</i>	II-1 SORPTION-ENHANCED REACTION CONCEPT APPLIED TO CO ₂ -METHANATION IN A FLUIDIZED BED CHEMICAL LOOPING SYSTEM <i>A. Coppola, F. Massa, F. Scala</i>
10:30	I-2	EXPERIMENTAL TESTS OF A NOVEL DIRECTLY IRRADIATED FLUIDIZED BED AUTOTHERMAL REACTOR (DIFBAR) <i>S. Padula, M. Troiano, C. Tregambi, R. Solimene, P. Salatino</i>	II-2 COMBINED CO ₂ CAPTURE AND CATALYTIC METHANATION OVER HIGHLY PERFORMING LI-RU/AL ₂ O ₃ DUAL FUNCTION MATERIALS <i>S. Cimino, E.M. Cepollaro, L. Lisi</i>
10:45	I-3	ADVANCED STRUCTURED X-PACKING PRODUCED BY 3D FOAM-PRINTING FOR PACKED TOWERS IN FGD PROCESS INTENSIFICATION <i>D. Flagiello, D. Tamaro, A. Erto, P. L. Maffettone, A. Lancia, F. Di Natale</i>	II-3 CARBON CAPTURE AND POWER-TO-GAS: A DYNAMIC ANALYSIS OF THE USE OF HYDROGEN IN A COGENERATION PLANT <i>D. Adinolfi, M. Costa, R. Maka, F. S. Marra, A. Palombo, M. V. Prati</i>
11.00	I-4	ADVANCES IN THE OPTICAL DIAGNOSTICS OF NANOSECOND NON-EQUILIBRIUM DISCHARGE PLASMAS FOR CO ₂ VALORIZATION AND ENERGY STORAGE <i>L. M. Martini, C. Montesano, T. P. W. Salden, P. Tosi</i>	II-4 SIMULATION OF SORPTION-ENHANCED METHANATION IN A CHEMICAL LOOPING SYSTEM USING CaO AS SORBENT <i>A. Coppola, F. Massa, F. Scala</i>
11.15-11:30	Coffee Break		



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11:30-13:00		ORAL PRESENTATIONS			
		MAIN ROOM SESSION III: Energy carriers: utilization, storage and safety <i>Chair: Dr. Rachele Lamioni</i>		AULA G1 SESSION IV: Biomass and waste thermochemical processing <i>Chair: Dr. Paola Giudicianni</i>	
11:30	III-1	IN-SITU CRACKING OF AMMONIA USING BLUFF-BODY BURNERS <i>A. Alfazazi, A. Elbaz, D. Fletcher, B.B. Dally</i>		IV-1	EFFECT OF PYROLYSIS ATMOSPHERE ON PETS BEHAVIOR DURING CONTAMINATED BIOMASS PYROLYSIS <i>C.M. Grottola, P. Giudicianni, F. Stanzione, R. Ragucci</i>
11:45	III-2	EXPLOSION BEHAVIOR OF ETHANOL-ETHYL ACETATE IN AIR <i>V. Di Sarli, F. Cammarota, E. Salzano</i>		IV-2	HYDROCHAR AND POSTPROCESSING WATER AS POTENTIAL ENERGY SOURCES FROM THE HYDROTHERMAL CO-CARBONIZATION OF WASTE <i>M. Śliz, K. Czerwińska, L. Lombardi, G. Cema, M. Wilk</i>
12:00	III-3	INFLUENCE OF NH ₃ ON CH ₄ OXIDATION REGIMES <i>M.V. Manna, P. Sabia, R. Ragucci, M. de Joannon</i>		IV-3	A LUMPED KINETIC APPROACH FOR CHEMICAL RECYCLING OF SOLID PLASTIC WASTE: POLYETHYLENE, POLYPROPYLENE, AND POLYSTYRENE PYROLYSIS <i>A. Locaspi, M. Pelucchi, M. Mehl, T. Faravelli</i>
12:15	III-4	RISK ASSESSMENT OF THE LARGE-SCALE HYDROGEN STORAGE IN SALT CAVERNS <i>M. Portarapillo, D. Russo, A. Di Benedetto</i>		IV-4	MODELING FAST PYROLYSIS OF BIOMASS IN FLUIDIZED BED REACTORS: THE ROLE OF HETEROGENEOUS SECONDARY REACTIONS AND CHAR LOADING <i>M. Troiano, V. Ianzito, R. Solimene, E. T. Ganda, P. Salatino</i>
12:30	III-5	MILD COMBUSTION FEATURES OF NH ₃ /ALCOHOLS BLENDS <i>G.B. Ariemma, G. Sorrentino, P. Sabia, R. Ragucci, M. de Joannon</i>		IV-5	THE INTEGRATION OF PYROLYSIS AND PAVEMENT PRODUCTION PROCESSES: TOWARD A MORE SUSTAINABLE WASTE MANAGEMENT <i>M. Alfè, V. Gargiulo, A.A. Abe, P. Calandra, P. Caputo, A. Le Pera, V. Loise, R. Migliaccio, M. Porto, C. O. Rossi, M. Urciuolo, R. Vaiana, G. Ruoppolo</i>
12:45	III-6	NUMERICAL SIMULATIONS OF AMMONIA/METHANE AND AMMONIA/METHANOL BLENDS IN A LAB-SCALE CYCLONIC BURNER <i>L. Frascino, G. Sorrentino, G.B. Ariemma, R. Ragucci</i>			
13.00-14:30		LUNCH BREAK			



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14:30-15:15	<p style="text-align: center;">PLENARY LECTURE</p> <p style="text-align: center;">METHODOLOGIES FOR THE DEVELOPMENT OF INTERNAL COMBUSTION ENGINES AND VEHICLES TOWARDS A SUSTAINABLE MOBILITY</p> <p style="text-align: center;"><i>Dr. Ezio Mancaruso</i> Chair: <i>Dr. Barbara Apicella</i></p>			
15:15-16:45	ORAL PRESENTATIONS			
	<p>MAIN ROOM</p> <p>SESSION V: Engines & Propulsion Chair: <i>Dr. Silvana Di Iorio</i></p>		<p>AULA G1</p> <p>SESSION VI: Stationary and Solid fuel combustion systems Chair: <i>Dr. Pasquale Eduardo Lapenna</i></p>	
15:15	V-1	<p>INSIGHTS ON STRATEGIES FOR PARTICLE EMISSIONS CONTROL IN HD SI NATURAL GAS ENGINES IN VIEW OF EURO VII LIMITS</p> <p><i>D. Di Domenico, D. Di Maio, P. Napolitano, C. Guido</i></p>	VI-1	<p>FLUIDIZED BED REACTOR MODELLING USING MULTIPHASE REACTOR NETWORKS</p> <p><i>L.L. Berkel, P. Debiagi, A. Stagni, H. Nicolai, C. Hasse, T. Faravelli</i></p>
15:30	V-2	<p>ROLE OF LUBRICANT OIL ON PARTICLE EMISSIONS FROM A PFI/DI SI ENGINE POWERED WITH GASEOUS FUELS</p> <p><i>F. Catapano, S. Di Iorio, A. Magno, P. Sementa, B. M. Vaglieco.</i></p>	VI-2	<p>MULTI PATTERN CYLINDRICAL PERFORATED BURNER: NUMERICAL SIMULATIONS OF INTERACTING FLAMES</p> <p><i>R. Lamioni, P.E. Lapenna, F. Creta, C. Galletti</i></p>
15:45	V-3	<p>CHEMICAL CHARACTERIZATION OF THE CONDENSED EXHAUST FROM A DI SI HYDROGEN-POWERED ENGINE</p> <p><i>V. La Matta, A. Tregrossi, A. Magno, F. Catapano, P. Sementa, S. Di Iorio, F. Stanzione, C. Russo, B. M. Vaglieco, B. Apicella</i></p>	VI-3	<p>HYDRODYNAMIC INVESTIGATION OF HOT DENSE FLUIDIZED BEDS FOR THERMOCHEMICAL CONVERSION OF SOLID FUELS</p> <p><i>L. Molognani, M. Troiano, R. Solimene, S. Tebianian, P. Salatino, J.F. Joly</i></p>
16:00	V-4	<p>A MULTIZONE COMBUSTION MODEL WITH DETAILED REACTION PATTERNS FOR EXHAUST EMISSION PREDICTION IN CAI ENGINES FUELLED BY BIOGAS CONTAINING HYDROGEN</p> <p><i>A. Mariani, A. Unich, M. Minale</i></p>	VI-4	<p>SOOT EFFECT ON HEAT TRANSFER IN LARGE FURNACES: CFD MODELLING AND VALIDATION BY FIELD TEST DATA</p> <p><i>G. Rossiello, M. Rogora, M. Torresi, A. Saponaro</i></p>
16:15	V-5	<p>PHYSICAL AND CHEMICAL CHARACTERIZATION OF PARTICLES EMITTED DURING PASSIVE REGENERATION OF MEDIUM-DUTY DIESEL ENGINE</p> <p><i>V. La Matta, C. Russo, E. Mancaruso, A. Tregrossi, S. Laganà, A. La Rocca, B. Apicella, B.M. Vaglieco</i></p>	VI-5	<p>ASSESSMENT OF THE POSSIBILITY OF USING AMMONIA-BASED NANO-ADDITIVES FOR LEAN COMBUSTION</p> <p><i>M.G. De Giorgi, P. Di Gloria, L. Strafella, G. Ciccarella, G.G. Castelluzzo, F. Baldassarre, A. Ficarella</i></p>
16:30	V-6	<p>EXPERIMENTAL ANALYSIS OF HYDROGEN PEROXIDE CATALYTIC DECOMPOSITION FOR ROCKET PROPULSION</p> <p><i>S. Cassese, S. Mungiguerra, A. Cecere, R. Savino, F. Monteverde, F. Saraga</i></p>	VI-6	<p>NUMERICAL SIMULATIONS OF INTERACTING FLAMES IN PERFORATED BURNERS OF DOMESTIC CONDENSING BOILERS</p> <p><i>R. Lamioni, C. Bronzoni, M. Folli, L. Tognotti, C. Galletti</i></p>
16:45-17:00	Coffee Break			
18:00-20:00	TOUR/VISIT (San Lorenzo Maggiore)			



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Tuesday, 7 June 2022

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8:30-9:15	Registration	
9:15-10:00	PLENARY LECTURE ENERGY TRANSITION AND FUTURE OF ENERGY <i>Dr. Teresa Marchione</i> <i>Chair: Prof. Andrea D'Anna</i>	
10:00-10:15	Transfer	
10:15-11:00	ORAL PRESENTATIONS	
	MAIN ROOM SESSION VII: Materials and flame synthesis <i>Chair: Dr. Valentina Gargiulo</i>	
10:15	VII-1	A SEMI-DETAILED KINETIC MODEL OF SINGLE-WALL CARBON NANOTUBES AND HYDROGEN PRODUCTION IN FCCVD REACTORS <i>C. Giudici, D. Cafaro, M. Bracconi, M. Maestri, M. Pelucchi</i>
10:30	VII-2	ELECTROPHORETICALLY-DRIVEN IN-FLAME DEPOSITION OF CARBON NANOPARTICLE FILMS <i>A. Parisi, G. De Falco, M. Sirignano, P. Minutolo, M. Commodo, C. Carotenuto, F. Di Natale</i>
10:45	VII-3	IN-SITU LASER DIAGNOSTICS TO MONITOR THE FLAME-ASSISTED SYNTHESIS OF PT NANOPARTICLES IN THE REACTIVE SPRAY DEPOSITION TECHNOLOGY (RSDT) <i>E. K. Stefanidis, T. A. Ebaugh, S. Bliznakov, L. J. Bonville, R. Maric, F. Carbone</i>
11:00	VII-4	CU- AND MG- ACTIVATED CARBON HONEYCOMBS MONOLITHS FOR H ₂ S REMOVAL FROM BIOGAS AT LOW TEMPERATURE <i>E.M. Cepollaro, D. Caputo, N. Gargiulo, F.A. Deorsola, S. Cimino, L. Lisi</i>
11.15-11:30	Coffee Break	
11:30-13:00	ORAL PRESENTATIONS	
	MAIN ROOM SESSION VIII: Numerical Combustion - part 1 <i>Chair: Dr. Alessandro Stagni</i>	
11:30	VIII-1	SELF-UPDATING DIGITAL TWIN OF A SEMI-INDUSTRIAL FURNACE VIA DATA ASSIMILATION APPROACH <i>L. Donato, C. Galletti, A. Parente</i>



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11:45	VIII-2	<p>A DATA DRIVEN FILTERED WRINKLED FLAMELET MODEL FOR PREMIXED HYDROGEN-AIR FLAMES</p> <p><i>P. E. Lapenna, A. Remiddi, G. Indelicato, F. Creta</i></p>		
12:00	VIII-3	<p>ON THE DYNAMIC DETERMINATION OF THE MICRO-MIXING CONSTANT IN TRANSPORTED JOINT-COMPOSITION PDF MODELS</p> <p><i>L. Giuntini, M. Savarese, C. Galletti, A. Parente</i></p>		
12:15	VIII-4	<p>ANALYSIS OF FLASHBACK WITH H₂-ENRICHED MIXTURES THROUGH NUMERICAL SIMULATIONS WITH DETAILED KINETICS</p> <p><i>F. Fruzza, R. Lamioni, L. Tognotti, M.V. Salvetti, C. Galletti</i></p>		
12:30	VIII-5	<p>A FAMILY OF SKELETAL MECHANISMS FOR METHANE OXIDATION AT HIGH PRESSURE</p> <p><i>J. Liberatori, R. Malpica Galassi, D. Bianchi, F. Nasuti, M. Valorani, P.P. Ciottoli</i></p>		
12:45	VIII-6	<p>KINETIC EVALUATION OF HYDROGEN SUPERSONIC COMBUSTION AND CHEMICAL EMISSIONS OF AIRBREATHING RAMJET VEHICLES</p> <p><i>G. Saccone, M. Marini</i></p>		
13:00-14:30	Lunch Break			
14:30-15:15	<p style="text-align: center;">PLENARY LECTURE</p> <p style="text-align: center;">LES-BASED CFD MODELLING OF LBO IN LEAN PREMIXED GAS TURBINE COMBUSTORS</p> <p style="text-align: center;"><i>Prof. Antonio Andreini</i></p> <p style="text-align: center;"><i>Chair: Prof. Maria Grazia De Giorgi</i></p>			
15:15-16:45	ORAL PRESENTATIONS			
	<p>MAIN ROOM</p> <p>SESSION IX: Numerical Combustion - part 2</p> <p><i>Chair: Dr. Valeria Di Sarli</i></p>		<p>AULA G1</p> <p>SESSION X: Pollutants formation, monitoring and control</p> <p><i>Chair: Dr. Mariano Sirignano</i></p>	
15:15	IX-1	<p>LARGE EDDY SIMULATIONS OF MEAN PRESSURE AND H₂ ADDITION EFFECTS ON THE STABILIZATION AND DYNAMICS OF A PARTIALLY-PREMIXED SWIRLED-STABILIZED METHANE FLAME</p> <p><i>D. Laera, P. W. Agostinelli, I. Chtereve, I. boxx, L. Gicquel, T. Poinso</i></p>	X-1	<p>SUPERCRITICAL WATER OXIDATION OF LEACHATE: AN EXPERIMENTAL STUDY</p> <p><i>P. Iannotta, A. Caravello, F. Grisafi, F. Scargiali, G. Caputo</i></p>



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15:30	IX-2	<p>THE EFFECT OF HYDROGEN AND EXHAUST GAS RECIRCULATION ON NO_x FORMATION IN LAMINAR AND TURBULENT CH₄/AIR FLAMES AT 25 BAR</p> <p><i>D. Cecere, S. Carpenella, A. Stagni, E. Giacomazzi</i></p>	X-2	<p>OPTICAL BANDGAP ANALYSIS OF SOOT NANOPARTICLES IN THE UV-VIS AND NIR SPECTRAL REGIONS BY TRANSMISSION AND REFLECTANCE SPECTROSCOPY</p> <p><i>F. Picca, F. Sasso, M. Commodo, P. Minutolo, A. D'Anna</i></p>
15:45	IX-3	<p>PERFORMANCE ASSESSMENT OF NUMERICAL MODELS FOR THE SIMULATION OF A CYCLONIC BURNER FED WITH METHANE</p> <p><i>L. Giuntini, C. Genovese, C. Galletti, L. Frascino, G.B. Ariemma, G. Sorrentino, R. Ragucci</i></p>	X-3	<p>UTILIZATION OF SMART SENSORS FOR IMPROVING PERFORMANCE AND RELIABILITY OF COMBUSTION SYSTEMS</p> <p><i>A. Della Rocca, D. Astesiano, M. Antifora, M. Bruzzese, G. Locatelli</i></p>
16:00	IX-4	<p>HIGH-FIDELITY NUMERICAL INVESTIGATION OF A NON-PREMIXED HYDROGEN-AIR ROTATING DETONATION COMBUSTOR</p> <p><i>P.C. Nassini, A. Andreini, M. D. Bohon</i></p>	X-4	<p>CHARACTERIZATION OF SOOT AND NO_x EMISSIONS FROM AN ATMOSPHERIC LEAF COMBUSTOR FUELLED WITH JET A-1 AND H₂</p> <p><i>G. De Falco, L. Miniero, K. Pandey, A. D'Anna, N. Noiray</i></p>
16:15	IX-5	<p>NO_x PATHWAYS IN LEAN TECHNICALLY PREMIXED SWIRLING H₂-AIR TURBULENT FLAME</p> <p><i>T. Capurso, D. Laera, E. Riber, B. Cuenot</i></p>	X-5	<p>NUMERICAL MODELING OF SOOT FORMATION AND EVOLUTION IN COMBUSTION OF ISOLATED, SPHERICALLY-SYMMETRIC DROPLETS</p> <p><i>A. Nobili, T. Faravelli, A. Frassoldati, A. Cuoci</i></p>
16:30	IX-6	<p>OPTIMISATION OF A 2-STEP CH₄/AIR REACTION MECHANISM TO A CO₂ ENRICHED ENVIRONMENT FOR HIGH FIDELITY COMBUSTION SIMULATIONS</p> <p><i>S. Castellani, P. C. Nassini, A. Andreini</i></p>		
16:45-17:00	Coffee Break			
17:00-18:00	ASICI Meeting			
20:00	Social dinner (Bertolini's Hall)			



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Wednesday, 8 June 2022

44th Meeting of the Italian Section of the Combustion Institute

8:45-9:30	Registration
9:30-11:15	<p>ROUND TABLE</p> <p>“ENERGY CARRIERS AND SUSTAINABLE TECHNOLOGIES: PERSPECTIVES, CHALLENGES AND RESEARCH NEEDS IN ENERGY TRANSITION”</p> <p><i>Moderators: Mara de Joannon, Massimiliano Fantuzzi</i></p> <ul style="list-style-type: none"> - <i>Welcome</i>, Riccardo Chirone, STEMS-CNR; Emilio Fortunato Campana DIITET- CNR - <i>Opening and context</i>, Mara de Joannon, STEMS CNR; Massimiliano Fantuzzi IFRF/ Danieli Centro Combustion SpA - <i>Application of H₂ and other LOHC molecules as Energy Carriers, technologies and market trends</i>, Luca Giuseppe Campana, Genesis Italy- Technip Energies - <i>Energy transition of industrial heating furnaces</i>, Alessandro Della Rocca, TENOVA SpA - <i>Use of alternative fuels in the cement industry as lever for decarbonization and circular economy</i>, Agostino Rizzo, Italcementi SpA - <i>Operating and development capacity at CCA towards the transition to green energy</i> Alessandro Saponaro, Centro Combustione Ambiente - <i>Zero Emission Waterborne Transport: the co-programmed partnership for marine sector</i>, Emilio Fortunato Campana –Dept. Engineering, ICT and Tech. for Energy and Transport-CNR - <i>Future fuels for the green shipping</i>, Diego Delneri, WÄRTSILÄ - <i>Inventing the future of flight</i>, Gianluca Scognamiglio, GE AVIO-AERO - <i>Baker Hughes outlook on GT Combustion - Hydrogen & Advanced cycles</i>, Christian Romano, Baker Hughes
11:15-11:30	Coffee Break
11:30-12:30	POSTER SESSION
12:30-12:45	Closing remarks and awards for young researchers
12:45-13:00	GROUP PHOTO
13:00-14:00	Farewell Lunch