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EWACC2015 – BUILDING BRIDGES

CONFERENCE PROGRAM

June 15–17, 2015

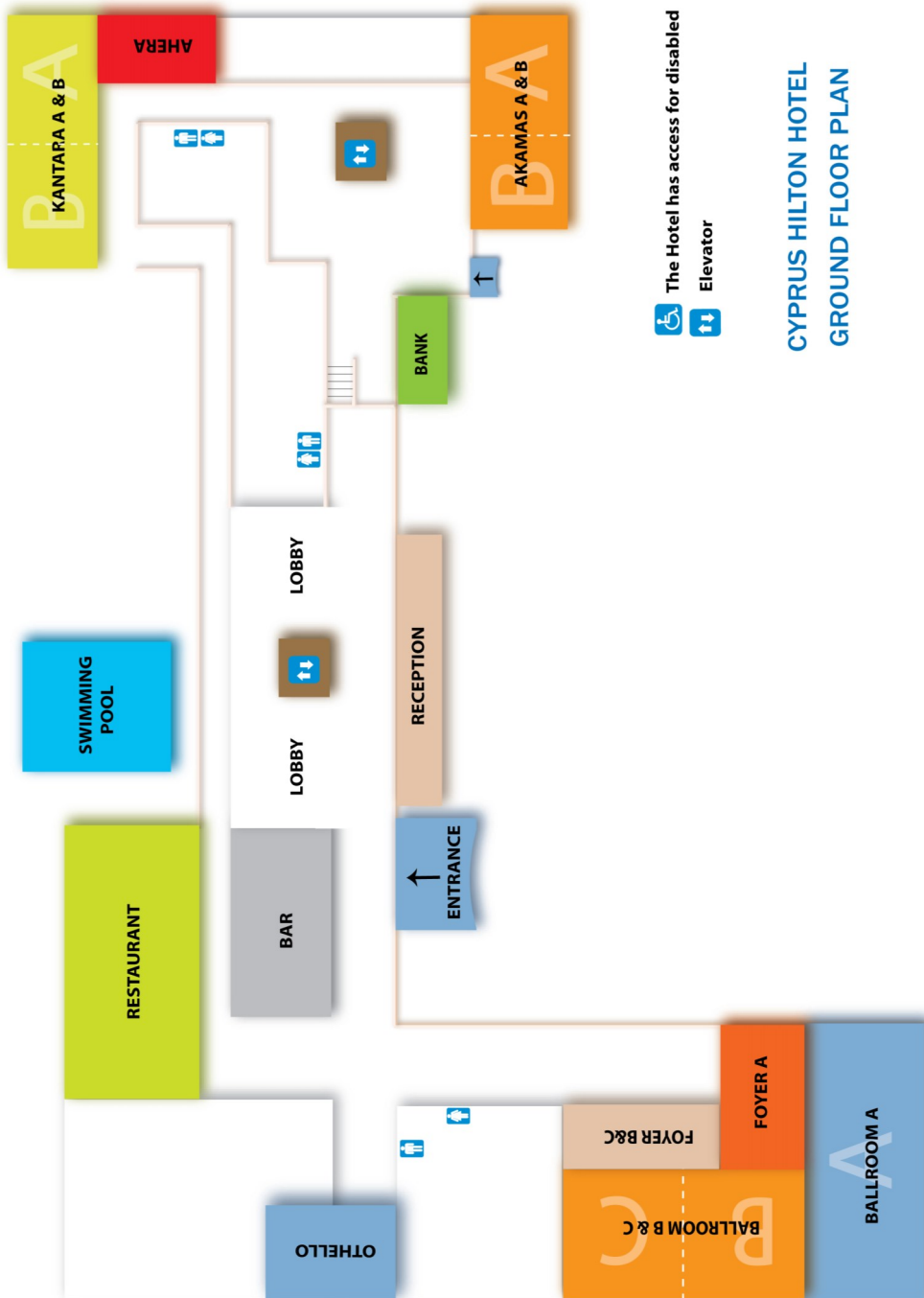
Hilton Cyprus Hotel



NOTES

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 The Hotel has access for disabled
 Elevator

**CYPRUS HILTON HOTEL
GROUND FLOOR PLAN**

Welcome

We would like to welcome you to Cyprus, Nicosia and to the EWACC2015-Building Bridges Conference (*Energy, Water and Climate Change in the Mediterranean - Building Bridges between Europe, the Middle East and North Africa*), which is part of the EWACC – Building Bridges Initiative. Addressing the interactions and feedbacks between rapidly increasing multiple pressures on water, energy and food security in countries of the Eastern Mediterranean, the Middle East and North Africa (MENA) appears as timely and pressing as it did a few years back, when we organized the EWACC2012-Building Bridges Conference. Not only have the external pressures of climate changes and their associated impacts continued to mount, but in addition a growing population, increasing urbanization, as well as far-reaching political and societal changes have resulted in further challenges for governments and populations in the MENA region.

Given the existing links between the European Union member states and the countries at the Mediterranean Basin's southern and eastern rim, a reinforcement and intensification of concerted efforts between Europe and the MENA countries is needed in order to tackle the impacts and challenges posed by the various pressures on the Water-Energy and Food Nexus.

The EWACC – Building Bridges Initiative represents a new and coherent approach to encourage long-lasting partnerships between Europe and the MENA region, striving to

- promote the next generation of scientists in MENA through a dedicated summer school, the Young Scholars' Forum,
- broaden and intensify the Euro-Mediterranean dialogue on grand challenges at the EWACC2015-Building Bridges Conference, and to
- foster inter-regional scientific cooperation through teaming/twinning and launching of specific research projects through consortium building workshops.

We are proud to present you with a comprehensive and stimulating program at the EWACC2015-Building Bridges Conference, comprising a series of invited presentations, various parallel sessions of contributed papers, a session of contributed posters, and two satellite events on 'Future Earth: Opportunities and Perspectives' and a 'MedSpring Brokerage Event'. The conference is being endorsed by the Future Earth program.

We wish you a most fruitful and enjoyable time in Nicosia and Cyprus, and look forward to constructive and beneficial discussions that will assist in Building Bridges between the individuals and the countries of Europe and the MENA Region.

Nicosia, June 2015

Prof. Manfred Lange
The Cyprus Institute
Nicosia, Cyprus
Chair, Organizing Committee
EWACC – Building Bridges Initiative

Dr. Frank Lehner
Deutsches Elektronen Synchrotron (DESY)
Hamburg, Germany
Co-Chair, Organizing Committee
EWACC – Building Bridges Initiative

CONFERENCE PROGRAM June 14-15, 2015

Date	Time	Activity
Sun, 14 June	18:00 – 19:30	Registration
	19:00 – 21:00	EWACC2015 - Ice-breaker reception
Mon, 15 June	08:30 – 09:30	Registration
	09:30 - 10:00	Opening Ceremony The Cyprus Institute (<i>Costas N. Papanicolas</i>), DESY (<i>Helmut Dosch</i>), UNESCO (<i>Maciej Nalecz</i>), European Commission, JRC (<i>Giovanni Bidoglio</i>), Future Earth (<i>Sandrine Paillard</i>), WMO/WCRP (<i>David Carlson</i>), UNDP (<i>Christopher Louise</i>)
	10:00 – 10:30	Refreshments and poster viewing
	10:30 – 12:00	<u>Plenary session I:</u> <i>Setting the Scene: Challenges and opportunities in MENA</i>
		(i) The Water-Energy-Food Nexus <i>Hammou Laamrani, Technical Secretariat, Arab Ministerial Water Council, The League of Arab States, Cairo, Egypt and Holger Hoff, PIK/SEI, Germany/Sweden</i>
		(ii) Sustainable Development Challenges in the MENA Region <i>Jürgen Scheffran, University of Hamburg, Germany</i>
		(iii) The role of science & technology in the MENA region <i>Claudio Bogliotti, Coordinator, MED-SPRING, Italy</i>
	12:00 – 13:30	Lunch
13:30 – 15:00	<u>Plenary session II:</u> <i>Climate Change in the MENA region</i>	
	(i) Climate projections/scenarios for the MENA region <i>Jos Lelieveld, MPI/The Cyprus Institute, Germany, Cyprus</i>	
	(ii) Regional climate modeling, uncertainties <i>Pinhas Alpert, Tel Aviv University, Israel</i>	
	(iii) Uncomfortable but Necessary: Climate Research Impact on Policy and Economics <i>Dave Carlson, WCRP/WMO, Switzerland</i>	
15:00 – 15:30	Refreshments and poster viewing	

SATELLITE EVENTS DURING THE EWACC2015-BUIDLING BRIDGES CONFERENCE

Future Earth: Opportunities and Perspectives

Nicosia, Cyprus, 16 June 2015, 11:00-13:00, Kantara Room

Time	Topic
11:00-11:15	Future Earth: Global Perspective, S. Paillard, CNRS, Paris Hub of the Future Earth Secretariat, France
11:15-11:30	Future Earth: Regional MENA Perspective, M. A. Lange, The Cyprus Institute, Cyprus
11:30-11:45	Research in the Context of Future Earth: National Perspective from Lebanon, R. El Hajj, Issam Fares Institute for Public Policy and International Affairs, American University Beirut, Lebanon
11:45-12:00	Future Earth and Regional Engagement: A Swedish Perspective, N. Farahbakhshazad, The Royal Swedish Academy of Sciences, Swedish Secretariat for Environmental Earth System Sciences – SSEESS, Sweden
12:00-12:30	Up to six short presentations from participants, 5 minutes each
12:30-12:50	Discussions
12:50-13:00	Next steps

Med-Spring Satellite Brokerage Event

Nicosia, Cyprus, 16 June 2015, 11:00-13:00, Ahera Room

Time	Topic
11:00 – 11:15	Welcome and introduction by Dr Claudio Bogliotti
11:15 – 12:00	Scope and presentation of H2020 potential topics (Energy) for Euro-Mediterranean research cooperation, by Eleana Gabriel, National Contact Point of Cyprus for H2020 Energy
12:00 – 12:20	Presentation of participants: expertise / field of interest, type of collaboration sought, reason for being in this section
12:20 – 13:00	Bilateral meetings / matchmaking between MPCs and EU researchers

CONFERENCE PROGRAM June 17, 2015

Date	Time	Activity
Wed, 17 June	10:30 – 11:00	Refreshments and poster viewing
	11:00 – 12:30	<u>Round Table Discussions:</u> Utilizing renewable energy sources and enhancing energy efficiency for a low-carbon MENA region <i>Galal Osman, Renewable Energy Research Center, Egyptian Ministry of Higher Education-MU, Egypt</i> <i>Nestor Fylaktos, The Cyprus Institute, Cyprus</i> <i>Julian Blanco Galvez, Plataforma Solar de Almeria, Spain</i>
	12:30 – 14:00	Lunch
	14:00 – 15:30	<u>Plenary session V:</u> <i>Science Policy and Science Diplomacy - Building Bridges between Europe and MENA</i> (i) Promoting excellent research in MENA <i>Ilan Chet, Union for the Mediterranean (Spain)</i> (ii) Promoting the next generation of scientists in MENA <i>Mouldi Miled, Chairman, Desertec University Network (Tunisia)</i> (iii) Science as an enabler of cooperation between EU and MENA countries <i>Jan Marco Mueller, JRC (Belgium)</i>
	15:30 – 16:30	Round Table incl. representatives from YSF
	16:30 – 17:00	Closing Ceremony

CONFERENCE PROGRAM June 15, 2015

Date	Time	Activity
Mon, 15 June	15:30 – 17:30	<u>Parallel sessions I:</u> A. Climate change, air quality issues and human health (<i>Kantara Room</i>) <ul style="list-style-type: none"> • Public health gains from the implementation of the EU and US air quality standards for PM2.5 <i>Despina Giannadaki, The Cyprus Institute, Cyprus</i> • Towards distributed air quality monitors: challenges and potentials <i>George Biskos, The Cyprus Institute, Cyprus</i> • Characterization of the wintertime particulate (PM1) pollution at an urban background site of Nicosia, Cyprus <i>Michael Pikridas, The Cyprus Institute, Cyprus</i> • Carbon sequestration and biodiesel production using native microalgal blooms <i>Michalis Omirou, Agricultural Research Institute, Cyprus</i> B. Climate change – monitoring, modelling and scenario planning (<i>Ahera Room</i>) <ul style="list-style-type: none"> • What is the best climate driver on the greenness of the MENA region? <i>Yi Chuixiang, Bolin Center, Sweden</i> • Monitoring Climate Change Impacts in the Mediterranean Marine Biosphere: The Continuous Plankton Recorder Facility at The Cyprus Institute <i>Rana Abu Alhaja, The Cyprus Institute, Cyprus</i> • High resolution climate projections for the eastern Mediterranean, Middle East and North Africa: the MENA-CORDEX initiative <i>Panos Hadjinicolaou, The Cyprus Institute, Cyprus</i> • The Agia Marina Xyliatou Observatory: A remote supersite in Cyprus to monitor changes in the atmospheric composition of the Eastern Mediterranean and Middle East region <i>Jean Sciare, The Cyprus Institute, Cyprus</i> • Aerosol pollution and its interaction with clouds and climate <i>Zev Levin, Tel Aviv University, Israel</i>
	17:30 - 18:00	Refreshment and Poster Viewing
	18:00 – 19:00	<u>Round Table Discussions:</u> Climate Change Adaptation Strategies in a hotter and drier Eastern Mediterranean <i>Leonard Barrie, The Cyprus Institute/Bolin Center (Cyprus/Sweden)</i> <i>Christos Giannakopoulos, Athens Observatory (Greece)</i> <i>Hans-Christen Hansson, iLEAPS (Sweden)</i> <i>Simon Krichak, Tel Aviv University (Israel)</i>
	20:00 – 21:30	<u>Public Key Note Lecture</u> 2015 - A Nanospace Odyssey <i>Helmut Dosch, DESY (Germany)</i>

CONFERENCE PROGRAM June 16, 2015

Date	Time	Activity
Tue, 16 June	09:00 - 10:30	<p><u>Plenary session III:</u> <i>Water, Food and Agriculture in the MENA region</i></p> <p>(i) Climate Change impacts and water availability <i>Manfred Lange, The Cyprus Institute, Cyprus</i></p> <p>(ii) Water and food security in the Mediterranean region <i>Giovanni Bidoglio, JRC (Italy)</i></p> <p>(iii) Innovative approaches to land use and water management under Climate Change <i>Peter Verburg, GLP (The Netherlands)</i></p>
	10:30 – 11:00	Refreshments and poster viewing
	11:00 – 13:00	<p><u>Parallel sessions II</u></p> <p>A. Maintaining water availability and water quality through innovative water management practices and improved governance (<i>Akama A</i>)</p> <ul style="list-style-type: none"> • Stakeholder engagement in water management and climate change adaptation in a Mediterranean watershed Elias Giannakis, The Cyprus Institute, Cyprus • Limits and advantages of different configurations of rainfall generators for the creation of projected gridded data sets over complex terrains Corrado Camera, The Cyprus Institute, Cyprus • Adaptation mechanisms of Pinus brutia trees in environments with limited soil moisture, under a changing climate Marinos Eliades, The Cyprus Institute, Cyprus • Water and wastewater management in arid and semi-arid areas of the MENA region - the case of tourism influenced El Gouna, Red Sea, Egypt Nikolaos Tzoupanos, Technical University of Berlin, Germany <p>B. Food security in the age of precision farming and climate change (<i>Akama B</i>)</p> <ul style="list-style-type: none"> • Changing agricultural water needs in the Mediterranean region Adriana Bruggeman, The Cyprus Institute, Cyprus • A scientifically-driven approach to develop new class of aquaculture farms Wojciech Sulisz, Polish Academy of Sciences, Poland • Assessment of Drainage Water Quality in Siwa Oasis and Its Suitability for Reuse in Agricultural Irrigation Ramzy Hedia, University of Alexandria, Egypt • Water and food security through a water footprint assessment Christos Zoumides, The Cyprus Institute, Cyprus <p>In parallel: 1st Satellite Event: Future Earth: <i>Opportunities and Perspectives (Kantara Room)</i> 2nd Satellite Event: MedSpring Brokerage Event (<i>Ahera Room</i>)</p>
	13:00 – 14:30	Lunch

CONFERENCE PROGRAM June 16-17, 2015

Date	Time	Activity
Tue, 16 June	14:30 – 15:30	<p><u>Round Table Discussions and Reports on Satellite Events:</u> Can modern agriculture provide food security in the MENA region? Adriana Bruggeman, The Cyprus Institute Loucas G.Christophorou, Academy of Athens, Greece Nikolaos Tzoupanos, Technical University of Berlin, Germany Brief reports on Satellite Events</p>
	15:30 – 16:00	Refreshments and poster viewing
	16:00 – 17:30	<p><u>Plenary session IV:</u> <i>Energy Supply and Demand: Opportunities and challenges</i></p> <p>(i) Renewables in the Mediterranean: Strategies and Scenarios <i>Julian Blanco Galvez, Plataforma Solar de Almeria, Spain</i></p> <p>(ii) Solar energy systems in the MENA region <i>Louy Qoaider, German Jordan University, Jordan</i></p> <p>(iii) Hydrocarbons and renewables: Synergies and challenges of hybrid energy/electricity production <i>Costas N. Papanicolas, The Cyprus Institute, Cyprus</i></p>
	20:30	Conference Dinner (Plaka Taverna, Nicosia) <i>Bus transfer will be provided</i>
Wed, 17 June	09:00 - 10:30	<p><u>Parallel sessions III</u></p> <p>A. Renewables in MENA: Technologies and Market opportunities (<i>Kantara Room</i>)</p> <ul style="list-style-type: none"> • Solar Chimney power plant performance in Tunisia Faten Attig Bahar, University of Carthage, Tunisia • Modelisation of Heat Transfer in Air-Rock Bed System Used for High -Temperature Thermal Energy Storing in CSP Plants Hassan Agalit, l'Ecole Mohammadia d'Ingénieurs, Morocco • Civil Society in Renewable Energy Transition: Toward New Public-Private Partnership Approach Raja Akermi, University of Tunis, Tunisia • The Pentakomo Field Facility: A plant for co-generation of electricity and desalinated seawater from CSP Aristides Bonanos, The Cyprus Institute, Cyprus <p>B. Hydrocarbon resources: Potential repercussions on the energy sector in the MENA region and in the global context (<i>Ahera Room</i>)</p> <ul style="list-style-type: none"> • Hydrogenation of CO2 to Sustainable Energy Carriers - Power to Liquid Concept Mohamed Ouda, Technical University of Munich, Germany • Cyprus and global LNG markets Nestor Fylaktos, The Cyprus Institute, Cyprus