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| 17.00 - 19.00 | RECEPTION TO PARTICIPANTS (and delivering of conference materials) - WELCOME DRINK (18.30-19.00)  
Hotel Olissippo Marquês de Sá (in front to the Conference Venue) |
MONDAY, JULY 11, 2011

Opening Session WELCOME TO PARTICIPANTS
A. Heitor Reis (Chair)
* Ibrahim Dincer (Honorary Chair)
* E. Rui Vilar, the President of Foundation Calouste Gulbenkian

Chair: M. Collares Pereira
Keynote address 1: "RENEWABLES AND HYDROGEN ENERGY OPTIONS TO COMBAT GLOBAL WARMING", Ibrahim Dincer

Auditorium 2

10.30-10.50 Refreshment Break

10.50-12.30 Session: GLOBAL WARMING FACTS AND PERSPECTIVES
Chair: David Wasdell
#43 On the use of the Constructal Law to study Climate change - Francis Meunier, Marc Clausse, A. Heitor Reis, Adrian Bejan
#105 Discovery of the Major Mechanism of Global Warming and Climate Change - Paul Cadelina Rivera
#150 A Warming Trend in the Largest Industrial City, Korea - Byeong-Kyu Lee

Room 1

Specialized Session: CLIMATE CHANGE AND SUSTAINABLE ENERGY: ACTIONS AND TRANSITION TO A LOWER CARBON ECONOMY
Chair and organizer: Marc Rosen

Talk: Actions and transition to a lower carbon economy - Marc Rosen
#56 Cleantech take off - A business perspective on climate change - Merete Wildner, Bettina Foged Sørensen, Christian Koch, Mads Schjærff Sørensen
How to effectively protect the Earth from global warming by means of advanced Sunlight Shield Equipment - Hideyo Murakami

Global Warming in Bangladesh Perspective: Temperature Projections upto 2100 - Mohammad Adnan Rajib, Md. Mujibur Rahman, Edward A. McBean

Geothermal Power Generation: Reserves, Technology and Status Review - Stuart James Self, Bale V Reddy, Marc A Rosen

12.30 - 14.00 Lunch Break

MONDAY, JULY 11, 2011

14.00 - 15.00 Chair: Ana M. Silva
Keynote address 2: "THE AEROSOL – CLOUD – CLIMATE CONUNDRUM", Jost Heintzenberg

Auditorium 2

15.00 - 16.40 Session: AEROSOLS AND PARTICULATE MATER
Chair: Maria Zoran
#59 Study of a desert dust event over the South-Western Iberian Peninsula in summer 2010 - Mª Ángeles Obregón Muñoz, Sergio Pereira, Frank Wagner, Antonio Serrano Pérez, Maria Luisa Cancillo Fernández, Ana Maria Silva

Room 1

Specialized Session: CLOUDS, PRECIPITATION AND CLIMATE
Co-Chairs and organizers: Vincenzo Levizzani and M. João Costa

#14 An approach to the retrieval of thin cloud optical depth from a Cimel sun-photometer - Juan Luis Guerrero-Rascado, Maria João Costa, Ana Maria Silva, Francisco José Olmo
#182 Forest fires in Portugal in summer 2010: contribution to atmospheric pollution - Ana Isabel Calvo, Ana Patricia Fernandes, Teresa Nunes, Célia Anjos Alves, Ana Margarida Vicente, Margarita Evtyugina, Ana Cristina Monteiro, Catia Vanessa Gonçalves, Luís Tarelho, Casimiro Pio

#151 Elemental and Organic Carbon in PM10 from Urban and Background Areas in a Typical Industrial City, Korea - Byeong-Kyu Lee

#249 Individual particle analysis of atmospheric aerosols from Pico mountain, Azores - Bruno Jose Vieira

#137 Modeling Saharan Desert Dust Radiative Effects on Clouds - Dina Santos, Maria João Costa, Ana Maria Silva, Rui Salgado

#233 Recent variations in climate variables in Mainland Portugal: daily precipitation and air temperature extremes - M. Isabel P. de Lima, Fátima E. Santo, Alexandre M. Ramos, João L. M. P. de Lima

#236 Numerical modeling of heavy rainfall event over Madeira Island in Portugal-Sensitivity to Microphysics - Hari Prasad Dasari, Rui Salgado, Maria João Costa, Ana Maria Silva

16.40 Refreshment during Poster Session

Room 3

16.40-18.00 POSTER SESSION
Co-Chairs: M. João Costa and Can Ozgur Colpan

#37 An Overview of the PV Applications in Turkey - Turgut Tüzün Onay, Elif Hot

#225 Influence of forest fires on levels of PM10 and PM2.5 in Northern region of Portugal: Preliminary study - Klara Slezakova, Cristina Delerue-Matos, Maria C. Alvim-Ferraz, Simone Morais, Maria C. Pereira
#68 Validation of empirical models to estimate diffuse radiation at Badajoz (Spain) - Guadalupe Sanchez Hernandez

#40 Interactions between natural materials and inorganic pollutants - Medjram Mohamed Salah

#42 Thermal applications of biomass in hospitals - Justo García

#61 Classification of air masses arriving at Cáceres (Spain) and its relationship with their aerosol load - Mª Ángeles Obregón Muñoz, Antonio Serrano Pérez, Maria Luisa Cancillo Fernández, José Agustín García García

#107 Environmental Impact of Population Mobility from College of Health Technology of Coimbra - Nelson Leite Sá, Mário Pina, João Paulo Figueiredo, Ana Ferreira

#121 Lighting Systems based in LED Technology and Selected Light Points Outdoor Controls - Mª Victoria Vázquez Godoy, Fernando Lopez Rodriguez, Antonio Ruiz Celma, José Luis Canito Lobo, Martín Cabos Rodríguez

#130 Monthly Precipitation Indexes’ Tendency Analysis in the State of Ceará, Brazil - Maria João Guerreiro, Isabel Cunha Abreu, Teresa Lajinha, Eunice Maia Andrade

#283 Aerosol size distribution from inversion of solar radiances and measured at ground-level during SPAL10 campaign - Jesús Fernández-Gálvez, Juan Luis Guererro-

#247 Warm cloud study from ground-based remote sensing using different radiative transfer approaches - Vanda Salgueiro, Maria João Costa, Ana Maria Silva, Miguel Potes, Rui Namorado Rosa

#266 Heat waves in Central Europe during the period 1991-2006 - Robert Twardosz, Andrzej Batko

#398 Exergy analysis of Wind energy in Iran - Elmira Eslami

#258 Preparation, characterization and adsorption properties of mineral activated carbon - Abdelhamid Addoun

#261 Adsorption properties of modified date pits activated carbons - Fatima Addoun

#269 Precipitation Modes in the Tagus Basin - Ligia Pinto Almeida, Filipe Duarte Santos

#241 Determination of water quality parameters and their usefulness on climate modelling - Miguel Potes, Maria João Costa, Rui Salgado

#271 Co(II) removal from wastewater by a low-cost adsorbent: kinetics and equilibrium studies - Makhlouf Boufatit

#336 Quantification of Organic Matter and Physical-Chemical Characterization of Mangrove Soil at Hooker Bay, San Andres Island - Colombia - Andres Noel Moreno
Rascado, Francisco Molero, Hassan Lyamani, Maria Aranzazu Revuelta, Francisco Navas-Guzmán, Mariano Sastre, Juan Antonio Bravo-Aranda, Alfonso Javier Fernández, María José Granados-Muñoz, Francisco Javier Gómez-Moreno, Manuel Pujadas, Lucas Alados-Arboledas

#180 Measurement of fugitive emissions during harbor operations - Alexandra Silva, Susana M Almeida, Maria Carmo Freitas, Andreia Marques, Ana Isabel Silva, Carla Ramos, Teresa Pinheiro

#199 Deep geological conditions and constrains for CO2 storage in Setúbal Peninsula, Portugal - Susana Machado, Carlos Rosa, Diogo Rosa, José Sampaio, Helena Amaral, João Carvalho, Júlio Carneiro, Augusto Costa

#28 Determination of NO2 amount in polluted air masses over Évora- Portugal, during 2010 with remote sensing measurements – Ana Filipa Domingues, Daniele Bortoli, Ana Maria Silva

#421 Thermodynamic modeling, exergy and exergoeconomic analysis & optimization of Mahsgar gas turbine power plant using an evolutionary algorithm - Arash Almasi

#102 Aerosol size distribution in a rural environment: influence of ambient atmosphere and wildfires – Amaya Castro, Ana Calvo, Elisabeth Alonso, Maria Fernandez-tega, Covadonga Palencia, Roberto Fraile

#414 Pressurized fluidized bed combustion and gasification based of a combined cycle power generation system: application for Turkish lignite - Murad A. Rahim

#430 The Kinetics of Carbon Dioxide Absorption by Blend of Aqueous Amine Solution of N-(2-hydroethyl) piperazine and Tris(hydroxymethyl) aminomethane - Cyril Sunday Ume

#166 Heavy Metal Resistant Anaerobic Bacterial Strains from Brewery Wastewater - Nusara Sinbuathong, Pramote Sirirote, Daniel Watts, Suphang Chulalaksananukul

#202 Rainfall extremes events climatology over the Amazon basin - María Cleofé Valverde

#379 CO2 Hydrates as a climate change mitigation strategy: Definition of the Portugal’s deep offshore stability zones - Luís Bernardes
TUESDAY, JULY 12, 2011

09.00-10.00  Chair: Francis Meunier
             Keynote address 3: "CARBON CAPTURE AND STORAGE; GLOBAL POTENTIAL AND STATUS", John Gale

Auditorium 2

10.00-11.00 Session: CARBON EMISSIONS
              Chair: Mourad Bezzeghoud
              #51 A projected turning point of China’s energy-related CO2 emissions - Bo Xu, Qie Sun, Ronald Wennersten, Nils Brandt

Room 1

10.00-11.00 Session: SATELLITE OBSERVATIONS
              Chair: Daniele Bortoli
              #93 Synergetic use of satellite and ground-based data to analyze the characteristics of urban climate over Rome - Lucia Maria Laurenza

11.00-11.20 Refreshment Break

#29 Soil CO2 emission to the atmosphere from Furnas volcano (São Miguel Island, Azores archipelago) - Fátima Viveiros, Teresa Ferreira, Carlo Cardellini, Catarina Silva

#191 Effective CO2 emission mitigation through coal and energy crops co-gasification - Adam Smoliński, Natalia Howaniec

#172 Satellite observation of urban heat island effect - Maria A. Zoran

#169 Westward propagation of satellite derived chlorophyll a across the South Pacific Ocean - A. Belo do Couto
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<td><strong>Session: ENERGY TECHNOLOGIES AND EXERGY ANALYSIS</strong></td>
<td><strong>Chair and organizer: Júlio Carneiro</strong></td>
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<td><strong>Chair: Arif Hepbasli</strong></td>
<td><strong>#165 Carbon sequestration to mitigate the future climatic changes and its adverse effects</strong> - <strong>Hossain Md Anawar, S.M. Almeida, N. Canha</strong></td>
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<td><strong>#416 Exergetic Sustainability Evaluation of a Recirculating Aquaculture System</strong> - <strong>Adnan Midilli, Haydar Kucuk, Ibrahim Dincer</strong></td>
<td><strong>#92 Mitigation Technologies to Lower Greenhouse Gases</strong> - <strong>Arangasamy Leela, Munusamy Vivekanandan, Murugesh Devatha</strong></td>
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<td><strong>#420 Ocean energy: exergy analysis and conversion</strong> - <strong>Antonio F. Miguel, Murat Aydin</strong></td>
<td><strong>#194 Coal as an unconventional reservoir for a CO2 safe geological sequestration solution</strong> - <strong>Cristina Fernanda Alves Rodrigues, Maria Alzira Pimenta Dinis, Manuel João Lemos de Sousa</strong></td>
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<td><strong>#250 Exergoenvironmental Analysis of a Trigeneration System Based on Micro Gas Turbine and Organic Rankine Cycles</strong> - <strong>Pouria Ahmadi</strong></td>
<td><strong>#379 CO2 Hydrates as a climate change mitigation strategy: Definition of the Portugal’s deep offshore stability zones</strong> - <strong>Luís Bernardes</strong></td>
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<td><strong>#101 Energy and Exergy Analyses of Cerro Prieto I Geothermal Power Plant</strong> - <strong>Stuart James Self, Bale V Reddy, Marc A Rosen</strong></td>
<td><strong>#111 Heat as by-product or sub-product of CO2 storage in basalt formations</strong> - <strong>Diogo Rosa, Rui Rosa</strong></td>
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<td><strong>#254 - Exergo-environmental analysis of renewable heat based Organic Rankine Cycle (ORC) using different working fluids</strong> - <strong>Seyedali Aghahosseini, Ibrahim Dincer</strong></td>
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| **13.00-14.30** | **Lunch Break**

**Lunch Break**
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| 14.30-15.30 | Chair: Pedro Viterbo  
Keynote address 4: "TURBULENCE, CLOUDS AND CLIMATE MODELS: TACKLING THE LARGEST UNCERTAINTY IN CLIMATE CHANGE PROJECTIONS ", João Teixeira |                                                                                |
| 15.30-17.30 | **Session: ATMOSPHERE AND CLIMATE**  
Chair: Byeong-Kyu Lee  
#104 Spatial aggregation of surface temperature trends in the last 100 years - António Rodrigues Tomé, Pedro M. A. Miranda  
#248 Spring and summer time extreme temperatures in Iberia in relation to circulation types frequency - Sonia Fernández-Montes, Fernando S. Rodrigo, Stefanie Seubert  
#122 Statistical Approach to Estimate the Impact of Climate Change in Daily Ozone Concentrations - Pedro Garrett Lopes, Mário Pulquério, Elsa Casimiro  
#49 Analysis of total ozone trends in the Iberian Peninsula using satellite data - Manuel Anton, Daniele Bortoli, Pavan S. kulkarni, Maria J. Costa, Ana F. Domingues, Ana M. Silva, Lucas Alados-Arboledas  
#177 Impact of Maritime Air Mass Trajectories on the Western European Coast Urban Aerosol - Susana Almeida, Maria Carmo Freitas, Ana Isabel Silva, Alexandra Silva, Cátia | Specialized Session: NETWORKING AND TECHNOLOGY TRANSFER ON CLIMATE CHANGE AND RENEWABLE ENERGY  
Chair and organizer: Walter Leal  
#267 Networking and technology transfer on climate change: the international climate change information programme - Walter Leal  
#209 CELA - Network of Climate Change Technology Transfer Centres in Europe and Latin America - Franziska Mannke  
#246 The Role of Renewable Energy in addressing the Challenge of Climate Change in the Pacific Region - Veronika Schulte  
#67 Vulnerability and Impact of climate change on water resources in semi-arid areas; example of the Essaouira Basin (Morocco) - Mohammed Bahir  
#170 Impact of Climate Change on the Energy System at the Santiago Metropolitan Region - Luis Santiago Vargas |
Repolho, Ho Manh Dung, Alexandre Caseiro, Casimiro Pio

#54 Application of KLIMA algorithm to CO2 retrieval from IASI/METOP-A observations and comparison with GOSAT/TANSO-FTS products - Lucia Maria Laurenza, Ugo Cortesi, Samuele Del Bianco

#394 How can we feed nine billion people while reducing GHG emissions? - Bruce Campbell, Sonja Vermeulen, James Hansen, Andrew Jarvis, Phil Thornton, Eva Wollenberg

WEDNESDAY, JULY 13, 2011

09.00-10.00
Chair: Miguel Araújo
Keynote address 5: "IMPACTS OF CLIMATE CHANGE ON BIODIVERSITY, AND THE IMPLICATIONS FOR CONSERVATION", Chris Thomas

Auditorium 2

10.00-11.00
Session: BIOENERGY
Chair: Adnan Midili
#13 Production of Biogas as a Source of Renewable Energy through Co-Digestion of Agricultural Residues with Poultry Manure - Burak Demirel

Room 1

Session: SUSTAINABLE SYSTEMS
Chair: Constanta Boroneant
#66 Analysis of life cycle of plants from point of energy balance - Imre Benko

#161 Environmental benefits derived from the anaerobic digestion of agrifood industry wastes - Almudena González, Francisco Cuadros, Antonio Ruiz, Fernando López

#143 A Sustainable Technology for the Treatment of Piggery Wastewaters - Kathryn Noelle Carney
11.00-11.20 Refreshment Break

Auditorium 2

11.20-13.00 Session: REGIONAL CLIMATES
Chair: Pedro Miranda

#52 Influence of air-conditioning management on heat island in Paris in a global warming perspective - Francis Emile Meunier, Brice Tremeac, Pierre Bousquet, Cécile Demunck, Grégoire Pigeon, Valéry Masson, Colette Marchadier, Michèle Merchat, Pierre Poeuf

#48 Time-series regression model for prediction of monthly and daily average global solar radiation in Al Ain City, UAE - Hassan A.N. Hejase, Ali H. Assi

#238 Changes in drought characteristics for Romania projected by a regional climatic model - Constanta Boroneant

#265 Climate change signals at local scale over Ethiopia - Gizaw Mengistu Tsidu, Eyale Bayable

Room 1

Specialized Session: BIODIVERSITY AND CLIMATE VARIATION
Chair and organizer: Miguel Araújo

#146 Linking protected areas to rescue biodiversity from climate change impacts - Diogo A. Alagador

#97 Assessment of Mediterranean Evergreen Oak (Quercus suber L.) Woodlands Loss. Consequence of climate changes effects? A case study at South-Western Portugal - Augusta Costa, Manuel Madeira

#251 Effects of climate change on flowering times of Narcissus bulbocodium L. in Portugal - Patricia Alegria, Alfredo Rocha, Paulo Silveira

#196 Impacts of Climate Change on Wine Production: A Global Overview and Regional Assessment in the Douro Valley of Portugal - Gregory V. Jones
13.00 -14.30 Lunch Break

WEDNESDAY, JULY 13, 2011

Auditorium 2

14.30-16.00 Session: CLIMATIC ISSUES
Chair: Luis Vargas

#382 Climate Sensitivity: Amplification of the Anthropogenic Disturbance of the Climate System - David Wasdell

#139 Seasonal temperature fluctuation and change in Turkey - Hüseyin Toros, Ali Deniz, Mustafa Coşkun, Ali Öztürk

#197 Changes in hydrological regime of the large Russian freshwater lakes under global warming - Natalia Alexandrovna Lemeshko

Room 1

Specialized Session: AIR QUALITY AND GLOBAL WARMING
Chair and organizer: Casimiro Pio

#31 Temporal variations of BTEX compounds in Bursa/Turkey atmosphere - Sema Yorulmaz, Mihriban Civan, Gurdal Tuncel

#129 African dust contribution to ambient aerosol levels across central Spain: Characterization of long-range transport episodes of desert dust - Pedro Salvador, Begoña Artiñano, Francisco Molero, María del Mar Viana, Jorge Pey, Andrés Alastuey, Xavier Querol

#183 Chemical Elements of Airborne Particulate at Pico Mountain, Azores Island (Portugal) Collected in Period of August 2008 to June 2009 as Determined by k0-INAA - Ho Manh Dung, Maria Do Carmo Freitas, Isabel Dionísio
#135 The modeling of extremum daily temperature series by spectral methods - Vincenzo Malvestuto, Olivia Testa, Maria Carmen Beltrano

#221 Influence of vehicular transport on air pollution in Oporto, Portugal: Particulate-bound polycyclic aromatic hydrocarbons - Klara Slezakova, Cristina Delerue-Matos, Maria Alvim-Ferraz, Simone Morais, Maria C. Pereira


#279 Study of aerosol optical properties over the Iberian Peninsula based on 9-year MODIS dataset - María José Granados-Muñoz, David Pozo-Vázquez, Juan Luis Guerrero-Rascado, Lucas Alados-Arboledas

16.15 DEPARTURE BY BUS TO BOAT TRIP IN THE TAGUS RIVER

17.00-19.00 SOCIAL PROGRAM

19.00-20.00 BOAT TRIP IN THE TAGUS RIVER MOUTH

19.00-20.00 WALK IN OLD DOWNTON LISBON TO THE "CASA DO ALENTEJO"

20.00 CONFERENCE DINNER AT "CASA DO ALENTEJO"
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<td>Robert Ayres</td>
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<td>10.00-11.00 Session: SOCIAL ISSUES</td>
<td>Session: ATMOSPHERIC MEASUREMENT SYSTEMS</td>
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<td>Chair: J. Leite Fechine</td>
<td>Chair: Rui Salgado</td>
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<td>#41 ICTs, the environment and climate changes - *Mounira Rouainia, Mohamed</td>
<td>#81 Change Detection of Surface Temperature and its</td>
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<td>Salah Medjram*</td>
<td>Consequence Using Multi-Temporal Remote Sensing Data</td>
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<td>and GIS Application to Tapi Basin of India - *Sarjerao M Bhamare,</td>
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<td>*Vikram Madhukar Agone</td>
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<td>#133 Education in the field of environmental protection as the dominant</td>
<td>#217 Ground-based and satellite measurements of</td>
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<td>factor for improvement of ecological security - <em>Marija Blagojevic</em></td>
<td>stratospheric nitrogen dioxide and ozone over the south of Italy</td>
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<td>- *Daniele Bortoli, Maria Joao Costa, Ana Maria Silva, Giorgio</td>
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<td>*Giovanelli, Francesco Monteleone, Giuseppe Alonge, Fabrizio Anello</td>
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<td>#8 Bringing green energy to Arab schools in the Negev, south of Israel:</td>
<td>#173 Nuclear power plant’s water thermal plume assessment</td>
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<td>Solar ovens - <em>Mahmoud M. Huleihil</em></td>
<td>by satellite remote sensing data - <em>Maria A. Zoran</em></td>
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11.15-12.15
Chair: Rui Namorado Rosa
Keynote address 7: "FUTURE ENERGY SCENARIOS - PEAK OIL, PEAK GAS AND PEAK COAL?", Kjell Aleklett

Auditorium 2

12.15-13.15
Session: SOLAR RESOURCES AND APPLICATIONS
Chair: Antonio Joyce

#78 The passive and active strategies to design zero energy buildings. Application to public building in Extremadura - F. López, A. Redrado, A. Ruiz, F. Cuadros, J. García, M. Cobos, C. Segador

#25 Utilization of a Parabolic Trough Solar System in a Direct Type Rotary Coal Dryer - Ehsan Amirabedin, M Zeki Yilmazoglu

#253 Numerical modeling of surface radiation over Iberian Peninsula with special reference to Portugal - João Perdigão, Hari Dasari, Rui Salgado, Maria João Costa

Room 1

Session: CONVENTIONAL ENERGY USES AND IMPROVEMENTS
Chair: Burak Demirel

#85 Operational and environmental costs of a certain ship due to the possible energy losses - Alper Kilic, Munir Suner


#144 Experimental and Numerical Study of Forced Circulation Solar Water Heaters (SWHs) - Alireza Rostamzadeh

13.15
CLOSURE - Auditorium 2