SUNDAY, JULY 6, 2008

10:00-19:00 Registration and Setup for Exhibition

MONDAY, JULY 7, 2008

Room: Ballroom

8:30-9:15 Chair: M.A. Rosen
Opening Remarks
Prof. Ibrahim Dincer, Conference Chairman
Prof. Garry Polonsky, Founding President, UOIT
Dr. Kadir Topbas, Mayor of Istanbul (TBC)
Mr. Muammer Guler, Governor of Istanbul (TBC)
Prof. Veyis Eriglu, Minister of Environment and Forestry (TBC)
Mr. R. Tayyip Erdogan, Prime Minister of Turkey (TBC)
Dr. Abdullah Gul, President of Turkey (TBC)

9:15-10:10 Chair: G. Polonsky
Keynote Address-1
New knowledge on climate change: Imperatives for action
R. K. Pachauri

Keynote Address-2
Global and Sectoral Mitigation Potentials to 2030 and the Carbon Price: Towards Decarbonising the Global Economy
T. Barker

10:10-10:30 Refreshment Break

10:30-12:30 Chair: G.R. Grob
Keynote Address-3
A Low Carbon Society Scenario towards 2050 and Their Economic Consequences
T. Sawa

Keynote Address-4
Global Warming Reduction through Ocean Carbon Storage
I. S. F. Jones

12:30-14:00 Lunch Break

14:00-16:00 Session: Climate Change Impacts
Room A: Pinar 1

Chair: D.J.C. MacKay

377 Optimal Paths of Climate Change Mitigation and Adaptation Under Certainty and Uncertainty
T. Felgenhauer

447 Decentralised Versus Centralised Systems – Or Fighting Fire With Fire? A Review Of Australian Responses To Its Climate Induced Urban Water Crisis
J. Warnken, C. Guilding

548 Early Detection Of Climate Change Impact On Agriculture An Israeli Case Study
N. Kliot

550 Planning for the Impacts of the Caspian Sea Level Rise and Climate Change in the North of Iran
Y. Filizadeh, K. Zolfinejad, H. R. Islami

576 Climate Change Impacts On Regional Maize Yields And Possible Adaptation Measures In Argentina,
M. I. Travasso, G. O. Magrin, G. R. Rodriguez, S. Solman, M. Núñez

590 The Synergistic Effects Of Adaptation To Climate Change On Local, Subregional Level
M. Costa
**MONDAY, JULY 7, 2008**

### 14:00-16:00 Session: Energetic and Environmental Issues-I Room B: Pinar 2

**Chair:** E. Entchev

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### 14:00-16:00 Session: Human Health Issues-I Room C: Pinar 3

**Chair:** K. Simeonova

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### 16:00-16:20 Refreshment Break
### Global Conference on Global Warming 2008

**MONDAY, JULY 7, 2008**

**16:20-18:20 Session: Global Warming Models - I**  
**Room A: Pinar 1**

**Chair:** J. Warnken

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**16:20-18:20 Session: Ecosystem and Biodiversity - I**  
**Room B: Pinar 2**

**Chair:** I.S.F. Jones

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543 H2SO3 Leaching Characteristics Of Toxic Metals Recovery From Plating Sludge
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554 The Effect Of Reductive Medium For Decreased Of Undesired Parts Of Çan Lignite
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27 From CO2 To Algae To Fuel - An Integrated Process Engineering Approach
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19:00-21:00 Welcoming Reception
TUESDAY, JULY 8, 2008

8:30-10:10 Chair: T. Barker  
Keynote Address-5  
The Global Transition to Sustainable Energy  
G.R. Grob  
Keynote Address-6  
Combating Global Warming via Non-Fossil Fuel Energy Options  
M. A. Rosen

10:10-10:30 Refreshment Break

10:30-12:30 Session: Renewable Energy Sources And Carbon Mitigation-Their Impact On Global Warming  
Chair: C. Koroneos

- 283 Factors Affecting Global Warming: Environmental Impact Of Solar Cooling And Solar Steam Generation  
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- 357 Capacity Of Underground Water Pumping Using Wind Energy Conversion Systems At Dhahran, Saudi Arabia  
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- 421 Global Warming: Desert Heat Collection And Conversion Into Electricity  
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- 498 Biofuels Technology Platform Of Thessaly, Greece  
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- 630 Role Of Renewable Energy In Sustainable Development  
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- 519 Steam Network Optimization By Utilizing Biomass And Solar Energy Sources In An Oil Refinery  
M.H. Panjeshahi, S. Perry, L. Ahmadi

10:30-12:30 Session: Sustainable Energy And The Environment -I  
Chair: H. Yoo

- 631 Towards Green Construction For Reducing Global Warming  
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- 407 Effect Of Clean Energy On The Sustainable Development Of Rural Areas  
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- 648 A Strategic Program To Reduce Greenhouse Gases Emissions Produced From Food Industry  
A. Kilic, A. Midilli And I. Dincer

- 565 Architectural Approaches Of Global Warming With Recent Developments From Turkey And Other Countries  
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- 420 Sustainable Practices In Malaysia: Are We Ready For It?  
N. Z. Abidin

- 402 Environmental Education And Training In The Russian Federation Within The Framework Of Bologna Process  
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<td>Multimedia Pollutant Sources, Their Effects To Environment And Waste Management Practice In Turkish Shipyards</td>
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# Global Conference on Global Warming 2008

**TUESDAY, JULY 8, 2008**

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| 14:00-16:00| Influence Of Operating Parameters And Associated CO₂ Emissions With Surface Retorting  
Of Jordanian Oil Shale  
J.O. Jaber |                  |
| 14:00-16:00| Industries Flaring Control  
K.K. Nowaishi, F. Al-khaldi, M.S. Ba-Shammakh, M.A. AlAbdulmoghni |                  |
| 14:00-16:00| Using Dry Ice To Treat The Global Warming  
H.M. Ismael, N.R. Abdulghani, D.R. Abdulghani, R.H. Kareem |                  |
| 14:00-16:00| Environmental And Economic Issues From Changing A Major Fuel Type As Energy  
Resources In An Industrial City, Korea  
B. Lee, K. Kim |                  |
| 14:00-16:00| Carbon Sequestration: A Methods Comparative Analysis  
C. J. Koroneos, D. C. Rovas |                  |

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Y. S. W. Sophie, C. K. P. Stephen |                  |
| 14:00-16:00| Global Warming, Decisive Factor Of Uniformity Seasons  
M. Ciobanu, M. Ciobanu, M. Mazilu |                  |
| 14:00-16:00| Global Warming Avoided Emissions With The Adoption Of Biofuel Policies In Spain  
| 14:00-16:00| Engineering Challenges And Opportunities Of Northern Passage In The 21St Century  
G. Inci |                  |
| 14:00-16:00| Global Warming: Is A New Threat?  
A. Eminoğlu |                  |

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16:20-18:20 Session: Ecosystem and Biodiversity - II Room A: Pinar 1
Chair: N. Caldes

S. Paz

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580 Global Warming And Wheat Production In Argentina
G. O. Magrin, M. I. Travasso, G. R. Rodríguez, S. Solman, M. Nuñez

643 Cyanobacteria For Mitigating Methane Emission From Submerged Paddy Fields
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233 Quantifying Carbon Sequestration In A Prosopis Cineraria - Dominated Desert Of The Uae
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586 Evaluation Of Drought Changes In Isfahan Province
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Chair: F. Dogan

502 Environmentally-benign Nuclear-based Hydrogen Production Through A Copper-chlorine Thermochemical Cycle
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577 A Parametric Study On Exergetic Aspects Of Hydrogen Energy In Reducing Fossil Fuel Consumption
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584 Reduction Of Greenhouse Gas Emissions Using Various Thermal Systems In A Landfill Site
C.D. Colpan, I. Dincer, F. Hamdullahpur

619 Hybrid Solar-hydrogen Systems For Better Environment And Sustainability
A. Yilanci, I. Dincer, H. K. Ozturk

626 Environmentally-benign Hydrogen Production From Ammonia For Vehicles
C. Zamfirescu, I. Dincer

16:20-18:20 Panel Discussion Session: Climate Change Vulnerability of Water Resources and Mitigation Room C: Pinar 3
Chair: Z. Sen

802 Climate Change Vulnerability of Water Resources and Mitigation
Z. Sen

Panelists:
A. Uyumaz - Hydraulics and Water Resources Department, Istanbul Technical University, Turkey
M. Kadioglu - Meteorology Engineering Department, Istanbul Technical University, Turkey
N. Apiraloglu - Chairman of S. World Water Forum 2009 and Hydraulics and Water Resources Department, Istanbul Technical University, Turkey
M.E. Birpinar - Istanbul Provincial Environment Director, Yidiz Technical University, Turkey

19:30-23:00 Banquet and Awards Ceremony
WEDNESDAY, JULY 9, 2008

8:30-10:45 Chair: H.L. MacLean
Room A: Pinar 1

**Keynote Address-7**
Sustainable Energy - without the hot air
D.J.C. MacKay

**Keynote Address-8**
Game Analysis of Kyoto and Post-Kyoto Schemes
H. Imai

**Keynote Address-9**
UNFCCC Process to Combat Global Warming and the Outcomes from the Bali Conference
K. Simeonova

10:45-11:00 Refreshment Break

11:00-12:30 Session: Sustainable Thermal Management for Room A: Pinar 1
Better Environment
Chair: M. Arik

405 Energy Efficient Solid State Lighting And Thermal Management For A Sustainable Future
M. Arik, A. Setlur

433 Sustainable Energy For Transportation Applications
R.L. Evans

549 Building Bridges; Integrated Approach For Sustainable Development Through Positive Impact Programming
T. Goldberg

578 A Life Cycle Greenhouse Gas Emissions Perspective On Liquid Fuels From Canadian And U.S. Unconventional Fossil Sources
J.M. McKellar, A.D. Charpentier, J.A. Bergerson, H.L. Maclean

611 Embodied Carbon: The Concealed Impact Of Residential Construction
G.P. Hammond, C.I. Jones

11:00-12:30 Session: Water Resources and Management Issues Room B: Pinar 2

Chair: T. Sawa

356 Daily Pan Evaporation Estimation Using Adaptive Neuro Fuzzy Inference Systems
E. Dogan, M. Sandalci, M. Gumrukcuoglu

373 Impacts Of Climate Change On Water Resources In Saudi Arabia
F. M. Al Zawad

395 Effects Of Water Management On Methane Emission From Rice Fields By The Revised Dnde Model
K. Smakgahn

475 North -South Gap In Wastewater Management, A Comparison Study For Germany And Jordan
M. Barjenbruch, K. Alzboon

494 Effects Of Water Management Works In Tarnave River Basin, Romania
M. Voda, V. Sorocovschi, R. Ratiu
### Wednesday, July 9, 2008

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**Global Conference on Global Warming 2008**
### 14:00-16:00 Session: Energetic And Environmental Issues-II Room B: Pinar 2

**Chair:** K. Alzboon

280 Yields Analysis And Environmental Evaluation Of Combined Photovoltaic-Thermal Collector In Kuwait Climate

A.A. Ghoneim, M.Y. Aljanabi, A.Y. Al-hasan, A.M. Mohammedin

429 Natural Fluids As An Alternative Refrigerant To Vapor Compression Refrigeration System

M.A. Sattar, R. Saidur, H.H. Masjuki

369 Effect Of Wind Blown Sand And Dust On Photovoltaic Arrays- Model And Solution

A. Assi

571 The New Method For Distributed Cooling Water System Design For Wastewater Temperature Reduction

A. Ataei, M. Gharaie, E. Panjeshahi

598 Application Of Ozone Treatment And Pinch Technology In Cooling Water Systems Design To Water And Energy Conservation

A. Ataei, M. Gharaie, R. Parand, E. Panjeshahi

660 Co-firing Solid Recovered Fuels (SrF) With Browncoal In Large Scale Pulverised Fuel Power Plants – A Simulation Approach

M. Agraniotis, P. Grammelis, E. Kakaras

### 14:00-16:00 Session: Exergy- I Room C: Pinar 3

**Chair:** S. Paz

637 A New Approach For Thermo-economics Analysis Of The Industrial Processes

Z. Sogut, Z. Oktay, H. Karakoc

546 Exergetic Analysis Of A Micro-turbine/Orc Combined Cycle

M. Yari, H. Shaker, A. Zarin

556 Exergetic Performance Comparison Of Various Type Geothermal Power Plants

M. Yari, A. Zarin, H. Shaker

575 Application Of Exergy Analysis In Performance Evaluation Of Cooling Tower

M. H. Panjeshahi, A. Ataei, M. Gharae

594 Investigation Of Efficiency In A Cross-flow Heat Recovery Unit Equipped With CdLVG

I. Koccioglu, S. Caliskan, E. Manay

803 Exergy Analyses Of Drying Of Broccoli Florets in a Heat Pump Conveyor Dryer

N. Colak, M.T. Bafta, F. Icier, E. Kuzgunkaya, A. Hepbasli, Z. Erbay
WEDNESDAY, JULY 9, 2008

16:00-17:00 Poster Sessions And Refreshment Break
(The Poster Presenters Are Requested To Present By Their Posters To Explain The Work During This Poster Session. The Posters Should Be Set Up Between 08:00H And 08:30H And Should Remain Up The Entire Day Until 18:00H.)

215 Visible Light Degradation Of Orange II Using Multiple Configurations Of Heterojunctions Based On Copper/TiO2
N. Helali, Y. Bessekhouad, A. Bouguelia, M. Trari

217 Alumina Porous Membrane Synthesis And Characterization
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Teaching of Thermodynamics
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17:00-19:00 Session: Chemical Aspects-II Room B: Pinar 2
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M.S. Haque, K.G. Karmakar

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N. Khan, N. Abas, N. Mariun

Deforestation: Environment Challenge And Sustainable Development
R. Agrawal, G. Vashistha, R. Mutha

Investing The Effect Of Forest Stand Volume On Soil Surface Erosion By Geographic Information System (GIS)
H.R. Maskani, A. Meraji
**Thursday, July 10, 2008**

### 8:30-10:10 Session: Sustainable Energy And The Environment - III
**Room A: Pinar 1**

**Chair:** W. Bowers

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### 8:30-10:10 Session: Power Plants
**Room B: Pinar 2**

**Chair:** P. Grammelis

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10:30-12:30 Session: Human Health Issues-II Room B: Pinar 2
Chair: M. S. Haque

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541 Airborne Ragweed Pollen Concentration In Zagreb, Croatia 2005-2007
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415 The Effects Of Air Pollution On Human Health And Other A Live Creatures
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10:30-12:30 Session: Global Warming And Turkey Room C: Pinar 3
Chair: M. Tiris

Panelists:
M. Karaca, Head of the Marine and Climate Sciences Department, Istanbul Technical University, Eurasia Institute of Earth Sciences
H. Nuzhet Dalfes, Head of the Ecology and Evolution Department, Istanbul Technical University, Eurasia Institute of Earth Sciences
M. Sahin, Head of Air Quality Management Department, General Directorate of Environmental Management, Ministry of Environment and Forestry

12:30-14:00 Lunch Break

14:00-16:00 Session: Energetic And Environmental Issues - III Room A: Pinar 1
Chair: J. O. Jaber

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595 Time Dependent Turbulent Flow And Heat Transfer Characteristics In Plate-fin Type Cross-flow Heat Exchanger
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627 Modeling Effect Of Chemical Fertilizer Applications On Methane Emission From Rice Fields
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805 Residential Solar Power Generation Systems For Better Environment
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460 Improvement Of Physical, Chemical And Mechanical Properties Of Construction Material With Using Of Steel Slag
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664 Fuel Consumption Effect Of Commercial Turbofans On Global Warming
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#### 14:00-16:00 Session: Energy Conservation Room B: Pinar 2

Chair: A. Z. Sahin

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#### 14:00-15:00 Forum: How Can we Make Buildings Greener? I

Chair: B. Kılıç

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#### 15:00-16:00 Session: Global Warming: Policies and Challenges –II

Chair: H. Niizawa

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Ibrahim Dincer, University of Ontario Institute of Technology, Canada
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