

**The Second International Conference on Thermal Engineering:
Theory and Applications
January 3-6, 2006
Al-Ain, UAE**

Monday, January 2nd, 2006

7:00-9:00 pm	Reception- Jimi Room
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Day 1: Tuesday, January 3rd, 2006

7:30-8:30 am	Registration
8:30 - 9:00 am	Opening Ceremony
9:00 - 10:00 am	Oasis Ballroom A & B Keynote Speaker: Professor Ching-Jen Chen Some Aspects of Nanotechnology for Biomedical and Engineering Applications Chair: Dr. Yousef Haik, Mechanical Engineering Department, UAE University, UAE
10:00 - 10:30 am	Coffee Break

	Oasis Ballroom A Energy Management – CFD: Part I	Amiri Majlas CFD: Part I	Oasis Balroom B Energy Management: Part I	Hiltom Meeting Room Multi-Phase
10:30 am- 12:50 pm	Chairman: Dr. Muftah El-Naas Co-Chairman: Dr. Sayed Shebl Mohamed	Chairman: Dr. Samir I. Abu-Eishah Co-Chairman : Dr. Mayouf Si Abdallah	Chairman: Dr. Souod Al-Khashan Co-Chairman: Dr. Jamil Ghojel	Chairman: Dr. Moh'd Chacha Co-Chairman: Dr. Hani Sait
10:30 am	Ra'fat Al-Waked Masud Behnia Enhancing the Performance of Natural Draft Dry Cooling Tower	Stasys Sinkunas, Sinkunas S., Gyls J., Kiela A. On Heat Transfer in Laminar and Turbulent Gravitational Film Flow	Farzad Kazemi Flash Steam Recovery by Steam Jet Thermo Compressors	Omar Alrabghi, Siddique, M. H. Beirutty, H. E. Fath Simulation of MSF Desalination Processes Using MATLAB GUI
10:50 am	Ra'fat Al-Waked, Lester Partridge and Masud Behnia Operating Theatres, IAQ and Ventilation Strategies - CFD Analysis	Zakaria Sazali, Yusaf T, and Yusoff M.Z. Flow and Transient Heat Transfer in a High Speed Free Piston Tunnel: CFD Simulations on Turbulent and Laminar Flow Conditions	Salah Ahmed Abdalla M. M. El-awad, E. M. Eljack An Innovative Liquid Desiccant Evaporative Water Cooler	Foc -Lai Tan, C.W. Chana Experimental and Numerical Studies of Freezing inside a Sphere
11:10 am	Salah El-Din El-Morshdy Thermal-Hydraulic Assessment of Topaz Irradiation Process at ETRR-2	Jan Saczuk Generalized thermal transport coefficients for low-dimensional systems	Fadia M. A. Ghali Ghali, M.M. Abdelaziz, Fathy A. Syam Fault Detection of Photovoltaic Arrays Under the Effect of Thermal Heating	Fock Lai Tan S.C. Fok Cooling of Notebook Computer using Phase Change Material

<p>11:30 am</p>	<p>Redhouane Henda William Quesnel, Ziad Saghir</p> <p>Thermal Analysis of a Circulating Gas-Solid Heat Exchanger</p>	<p>Srinivasa Reddy Muraleedharan. C</p> <p>Exergy Analysis Of Power Plants</p>	<p>Ahmed Al-Salaymeh M. Al-Salaymeh, M. Rabah, M. Abdelkader</p> <p>Enhancement of the Coefficient of Performance in Air Conditioning Systems by Utilizing Free Cooling</p>	<p>Van Vaerenbergh M. Khawaja, Z.M. Saghir, P. Zehlezny, J.L Daridond, F. Monte</p> <p>Model diffusion and Soret effect in complex fluids</p>
<p>12:10 pm</p>	<p>Ghada El-Sawah Mahmoud Fouad, Tamer Hendawi</p> <p>An Approach to Hospital Operating Room HVAC System Design</p>	<p>A. Saati, A. A. Mohamad</p> <p>Turbulent Natural Convection in Enclosures</p>	<p>Ahmed A. Medhat</p> <p>Fouling Influence on Air-TO-air Fixed Plate Heat Exchanger</p>	<p>Valentina Shevtsova D. Melnikov, J.C.Legros</p> <p>Double Diffusive Convection with Negative Soret effect</p>
<p>12:30 pm</p>	<p>Elsafty Hassan, A.A.</p> <p>Experimental and Numerical Investigation of Optimum location for FCU in an all-water Air conditioning system</p>	<p>Nimeti DÖNER Zekeriya ALTAÇ</p> <p>Solution of the Radiative Transfer Equation using the Synthetic Kernel (SKN) Method in inhomogeneous Participating and Anisotropically Scattering One-Dimensional Cylindrical Medium</p>	<p>Ahmed Medhat ESSAM E. KHALIL</p> <p>Human Acclimatization For Energy Efficient Buildings</p>	<p>S.P. Radev M. Chacha</p> <p>Bending Instability of a Slender Nonviscous Jet Induced by a Concentric Layer</p>
<p>12:50-2:30 pm</p>	<p>Lunch-Old Majlis</p>			
<p>3:00 pm</p>	<p>Trip to Dubai Busses leave from Hilton @ 3:00pm Dinner will be provided</p>			

Day 2: Wednesday, January 4th, 2006

7:30-8:00 am	Registration			
8:00 - 9:00 am	Oasis Ballroom A&B Keynote Speaker: Professor Ioan Pop On some boundary layer problems in porous media: a review Chair: Dr. Abdullah Al-Amiri, Mechanical Engineering Department, UAE University, UAE			
9:00: - 10:00 am	Oasis Ballroom A & B Keynote Speaker: Professor Dennis Siginer Heat transfer enhancement in the internal flows of non-linear fluids Chair: Prof. Ziad Sagir, Mechanical Engineering Department, Ryerson University, Canada			
10:15 - 10:30 am	Coffee Break			
10:30 am-1:30 pm	Amiri Majlis Materials and Polymer: Part I: Chairman: Dr. Nayef Qasem Co-Chairman : Dr. Gerd Walter	Oasis Ballroom A CFD: Part II Chairman: Dr. Hassan M. Hassan Co-Chairman : Dr. Masoud Darbandi	Hilton Meeting Room Energy Management – CFD: Part II Chairman: Dr. Ra'fat Al-Waked Co-Chairman: Dr. Rached Ben-Mansour	Oasis Ballroom B Solar CFD Chairman: Dr. Kaaabi Abdelnacer Co-Chairman: Dr. Mustafa Fadhel
	Mohamed Saad Ahmed Morsy El-Sayed Nasr, Mohammed	Luai-Al-Hadhrami	Ra'fat Al-Waked Lester Partridge, Masud Behnia	Ahmad Hegazy, Mohamed M. El-Madany

10:30 am	Morsyand Hosam Attia Effect of Addition of Polystyrene Foam Waste on the Physical Properties of Cement Bricks	Effect of Feeding Channel Aspect Ratio and Orifice Jet Configuration on Heat Transfer in a Rectangular Channel	Natural Ventilation of Perth Seawater Desalination Plant - CFD Analysis	Operating Parameters Selection of Solar Parabolic Trough Collector for Direct Steam Generation Used in Salt water Desalination
10:50 am	Jerzy Malachowski Tadeusz Niezgoda, Jerry Wekezer Analytical Damage Assessment of Pipelines Due to H.E. Material Detonation	Loay Aldabbagh Three-Dimensional Numerical Simulation of an Array of Impinging Laminar Square Jets with Spent Fluid Removal, Flow Structure, Part II	Mmohamed Nasif Graham Morrison, Masud Behnia Enthalpy Heat Exchanger in Energy Recovery System: Experimental and Numerical Studies and Energy Analysis for Dubai	Avala Rraji Reddy A.V.Narasimha Rao Mathematical Modeling Of A Hot Box-Type Solar Cooker: Cooking Vessel With Central Annular Cavity
11:10 am	Samir I. Abu-Eishah Correlations for the Thermal Conductivity of Metal Oxides, Ceramic and Insulating Materials as a Function of Temperature	Khetib Yacin Initial conditions analysis of turbulent flow in an ejector of frigorific machine	R. Bennacer, H. B. Ahmed, Sammouda, H. Bejia, A. Belghith Energy-Efficiency And Flow Structure Analysis Using A Floor Cooling	Chekirou Wassila N. Boukheit, T. Kerbache Numerical Model of a Solid Adsorption Solar Refrigerator
11:30 am	Nedim Sozbir N. Sözbir, S.C. Yao Experimental Investigation of Spray Cooling on High Temperature Metal Surfaces	Mayouf Si Abdallah B.Zeghmati, M.Daguenet Numerical Study of Heat and Mass transfer by Laminar Natural Convection in the Boundary Layer of Wavy Cone Trunk	M.M. El-Awad, S.A. Abdalla, E.M. Eljack, O.E. Mohamed A Computer Model for Evaluating Hydrocarbon Mixtures as Natural Alternative Refrigerants	Kaaabi Abdelnacer Halima ZAID Study and Optimisation of Thermo-Physical Parameters for a Solar-still Performance

<p>11:50 pm</p>	<p>Ayoub KAZIM, Peter Lund</p> <p>A 3-D Temperature Distribution of Various Types of Metal Hydrides</p>	<p>Moona Mohammadi M.Yaghoubi, A.Goshtasbi Rad</p> <p>Simulation of Spray Dryer with Cooling Air Jacket by Computational Fluid Dynamics</p>	<p>Mahmoud Aly Hassan</p> <p>Low Energy Building</p>	<p>Khoukhi Maatouk Shigenao MARUYAMA</p> <p>Combined Nongray Radiative and Conductive Heat Transfer in Single and Double Glazing Solar Collector Glass Covers Subjected to Solar and Thermal Radiation</p>
<p>12:10</p>	<p>Hamid Bel Ghazi Mohammed EL GANAOUI, Jean-Claude LABBE</p> <p>Analytical solution of the unsteady heat conduction in two-layered material within imperfect thermal contact</p>	<p>Mostafa Salah Eldin</p> <p>Developing Laminar Forced Convection in a Vertical Channel with Combined Buoyancy Forces</p>	<p>Naima-Fezzioui B.Draoui</p> <p>Numerical simulation of the heat transfer through building walls consisting of hollow tiles</p>	<p>Mustafa I Fadhel, M. Ibrahim, K. Sopian, Shahrir Abdullah</p> <p>CFD Study of Heat Transfer and Fluid Flow for Double-Pass Solar Air Heater With and Without Porous Media</p>
<p>12:30-1:30 pm</p>	<p>Lunch-Old Majlis</p>			
<p>1:30 - 2:30 pm</p>	<p>Keynote Speaker: Professor Mohamed Abdou Overview of Fusion Science and Technology Chair: Prof. Fahmi Abu Rub, Chemical and Petroleum Engineering Department, UAE University, UAE</p>			

2:30-4:10 pm	Amiri Majlis Natural Convection Chairman: Dr. Ali Al-Marzouqi Co-Chairman: Dr. Srinivasa Rao Kaza	Oasis Ballroom A Experimental Fluid Flow Chairman: Dr. Shaheen Al-Muhtaseb Co-Chairman: Dr. Omar Alrabghi	Oasis Ballroom B Experimental Combustion: Part I Chairman: Dr. Bilal Akash Co-Chairman: Dr. Luai Al-Hadhrami	Hilton Meeting Room Energy Management: Part II Chairman: Prof. Dennis Signier Co-Chairman: Dr. Ra'fat Al-Waked
2:30 pm	Masoud Darbandi S.F. Hosseinizadeh, M. Saadat, P. Farzinpour Effect of Partition Wall on Natural Convection in Enclosures with High Temperature Gradients	Thierry Mare, Anne Gabrielle Schmitt, Cong Tam Nguyen, Jacques Miriela, Gilles Roy Experimental Heat Transfer and Viscosity Study of Nanofluids: Water- γ Al ₂ O ₃	Adjar Pratoto Combustion Behavior of Briquettes from Oil Palm's Empty Fruit Bunch	Jamil Ghojel Thermoelectric Generations in Waste Heat Recovery Applications
2:50 pm	Nawaf H. Saeid Natural Convection in an Enclosure with Non-uniform Sidewall Temperature	Abdel Jabbar Ridha Lassouad.M, Safi.M.J Experimental observation by PIV of mechanisms of convection in immiscible two stratified layers	Ahmad Hussain Farid Nasir Ani, Zainul A. Mamat, Zulfadhly Zardi, Abdul Aziz Experimental and Simulation Studies of Combustion of Blended Fuel Oil for use in Industrial Gas Turbines	Mostafa-Salah-EIDin Optimization of an Irreversible Vapor Compression System Having Two Evaporators at Different Temperatures
3:10 pm	S. A. Gandjalikhan Nassab, B. Maneshian, M. S. Hashemipour Laminar Forced Convection Between two Eccentric Rotating	P.R. Suresh, Sarit K. Das, Sundararajan. T, Srinivasan.K Influence of Aspect Ratio on the development of plane jets at low Reynolds	Bambang Sugiarto Performance Improvement for 4 Strokes Motorcycle Engine by Modifying Exhaust System with CFD	New_P.B.Gangavati I.M.Mishra, B.Prasa Thermal Gasification of Village Rice husk and Sawdust in Fluidized BED: Gasifier Operation and

	Cylinders	numbers	and Chassis Dyno	Thermal Efficiency
3:30 pm	Srinivasa Rao Kaza G. Venkata Reddy Enhanced Heat Transfer Through Baffles in Fluidized Bed	Hani Sait, K.A, Fathallah, Selim,A.M Experimental Study of Ice Formation on Parallel Horizontal Tubes Subject to Falling Film	Bilal Akash Combustion of Diesel and Kerosene in a Water Jacketed Horizontal Cylinder Combustion Unit	C. Muraleedharan Satyanarayana Emani, V. R Minimization of Entropy Generation for Optimal Design of Circular Heat Pipe
3:50 pm	Mohamed Saleh Hesham E. Abdel- Hameed Enhancement of Convective Heat Transfer on a Flat Plate by Artificial Roughness and Vibration	Nazih Bayomi Preliminary Design of Radial Turbine	Hafez Hafez, Vishy Karri, Jeppe Funk Kirkegaard A study of diesel-hydrogen fuel exhaust emissions in a compression ignition engine/generator assembly	Adel Abdel Dayem Experimental and Theoretical Study of a Humidification-Dehumidification Solar-Water Desalination System
4:10-6:00	Visit to Jabal Hafit			
6:00-7:30	Dinner at Mercure Hotel-Jabel Hafit			

Day 3: Thursday, January 5th, 2006

7:30-8:30 am	Registration			
8:30 - 9:30 am	Keynote Speaker: Dr. Joseph Bull Cardiovascular Microbubbles for Therapy Chair: Dr. Yousef Haik, Department of Mechanical Engineering Department, UAE University, UAE			
9:30 – 9:45 am	Coffee Break			
10:30 am-12:30 pm	Oasis Ballroom A Energy Management – CFD: Part III Chairman: Dr. Farzad Kazemi Co-Chairman : Dr. Elsafty	Majlis Amiri Bio. & Environmental Chairman: Dr. Joseph L. Bull Co-Chairman: Dr. Ibrahim Hassan	Hilton meeting room CFD: Part III Chairman: Dr. Moh'd Nounou Co-Chairman : Dr. Zakaria Sazali	Oasis Ballroom B Solar Renewable: Part I Chairman: Dr. Redhouane Henda Co-Chairman: Dr. G. Soleimani Alamdari
10:30 am	Sayed Shebl Mohamed Energy Analysis for The Effect of Envelope Fenestration for the Different Orientations	Khalil Khanafer Joseph L. Bull, Ramon Berguer Turbulent Pulsatile Flow Characteristics in Axisymmetric Abdominal Aortic Aneurysm Models	M.K Ramis S. Jahangeer, G. Jilani Numerical Analysis of a Nuclear Fuel Element Cooled in a Surrounding Medium	Adel Naser Enhancing Efficiency and Power Output of Gas Turbines Using Either Renewable Energy or Heat Recovery Cooling System.
10:50 am	S.H. Masoodr Shiva Subramanian	Rached Ben-Mansour Abdul Qaiyum Shaik	Nacer Sadoun EI-Khider SI-AHMED, Jack LEGRAND	Ahmed Hegazy A.N. Al-Turki

	Process Optimisation and Thermal Analysis in Injection Moulding	Blood Flow in an Axisymmetric Tube with A Moving Indentation	A Refined Exponential Heat Balance Integral Method For One-Phase Stefan Problem	Optical Performance of Combined Parabolic and V-Trough Solar Collector (Part i: Analyses)
11:10 am	Tadeusz Niezgoda Jerzy Malachowski ,Wieslaw Barnat Assessment of Energy Absorption by Composite Structures	Jordan Hristov V. Stamatov Transient heating of a bio-oil droplet within the pre-explosion stage Models, scaling and search for appropriate explosion criteria	Hassan Hassan The Drainage and Rupture of Film Between Two Interacting Drops in Simple Shear Flow Due to Hydrodynamic and van der Waals Forces	Ahmed Hegazy A.N. Al-Turki Optical Performance of Combined Parabolic and V-trough Solar Collector (Part ii: Results)
11:30 am	Mohamed Antar Multi-Dimensional Effects in Estimating the Heat loss Across Building Envelopes	Mustafa-Isreb EEE (Environmental Engineering Economics) Attributes for Oil and Gas Industry	Ali Rashaida D. J. Bergstrom, and R.J. Sumner Numerical and Analytical Modeling of Mass Transfer from a Rotating Disk to a Bingham Fluid	Balasubramanian-Sivaraman N.Krishna Mohan Performance Analysis of a Heat Pipe Solar Collector Having Different Pitch Distance
11:50 pm		Ghada El-Sawah Mahmoud Fouad, Osama Abbas Smoke Management System Design in Buildings with Atrium Using Computer Model	Hakim Nesreddine Jonathan Bouchard, Richard Chahine Numerical Investigation of Heat Transfer and Magnetization Losses in Active Magnetic Regenerator	Mahesh Sundar B.Pranesh kumar, R.Suresh Parametric Design of Air Powered car (Innovative)
12:10		Patomsok Wilaipon Kittichai Trirattanasirichai , Kiatfa Tangchaichit	Gomri Rabah Mourad BOUMAZA	

		The Effects of Moderate Die Pressure on Banana-Peel Briquettes	Development of Correlation for the Calculation of Heat in the Primary Reformer (Furnace of the Ammonia Industry)	
12:30-2:00 pm	Lunch-Old Majlis			
2:00-3:00 pm	Keynote Speaker: Professor Ziad Al Saghir Thermodiffusion in porous media Chair: Dr. Mohamed Younis Al saghir, Mechanical Engineering Department, UAE University, UAE			
3:00-3:20 pm	Coffee Break			
3:20-4:40 pm	Oasis Ballroom A CFD Combustion: Part I Chairman: Dr. Talal Yusaf Co-Chairman: Dr. Keith-King	Oasis Ballroom B Materials and Polymer: Part II Chairman: Prof. Fahmi Abu Al-Rub Co-Chairman: Dr. Nayef Ghasem	Majlis Amiri Experimental Combustion: Part II Chairman: Dr. Salah Omari Co-Chairman: Dr. Ahmed A. Medhat	Hilton Meeting Room Porous Media: Part I Chairman : Dr. Nickolay N. Smirnov Co-Chairman: Dr. Shapour Vossoughi
3:20 pm	Talal Yusaf S. H. Fong, Yusoff M. Z, Hussein I Modeling of Transient Heat Flux in Spark Ignition Engine during Combustion and Comparisons with	M. BOUNEDER- M.El GANAOUI Fauchaisa , J. P.Bonne Unsteady heat transfer under phase change in a heterogeneous sample	Patrick Burke, Yasir M Al-Abdeli, Vishy Karri Alternative and Sustainable Fueling Options for Two Wheeled Vehicles	Khalifa Slimi, A. Mhimid, A. A. Mohamad Anisotropy Effects on Transient Conductive Convective and Radiative Transfer in a Vertical Channel

	Experiment			Filled with a Saturated Porous Medium
3:40 pm	Iman Zahmatkesh Mohammad Moghiman Assessment of soot formation models and modification of the two-step mode	GANAOUI M. Amara AMARA Mohamed Numerical investigation of laser driven silicon nanopowder synthesis reactor	Zeyad Alwahabi, N.H. Qamar, G.J. Nathan, K.D. King¹ Laser Induced Incandescence Study of Turbulent Precessing Jet Flame	Khalifa-Slimi Entropy Generation Enhancement due to Radiative Transfer Within a Vertical Channel Filled with a Semi-Transparent Porous Medium
4:00 pm	S.I. Salah- B.H. Nazar Assaad R. Masri Calculations of the Atomization Process of Gasoline Fuel Injection	Abdul Maleque P. V. Brevern, and A.S.M.A.Haseeb Effect of pouring temperature on mechanical properties of SiC reinforced aluminium-matrix composite	Mehdy Hamzehei Manoochehr Rashidi , Hassan Rahimzadeh Measuring of Piston Temperature in a Spark Ignition Engine	Khalifa Slimi Entropy Generation Calculations for Unsteady Conduction, Convection and Radiation Within a Tilted Saturated Porous Channel
4:20 pm	MAHFOUD KADJA Tayeb Ouksel, Abdelaziz Chelghoum^a Influence of Various Parameters on the Formation of Nitric Oxide (NO) in Spark Ignition Engines	Gerd Walter Thomas Meyer, Karsten Wambach, Wolfgang Heschel, Heiko Anger Recycling of PV Wafers by Thermal Processing	Jamil Ghojel Damon Honnery, Khaled Al-Khaleefi Heat release and Emission Characteristics of Water-Oil Emeulsion in Direct Injection Diesel Engine	Ali Alshatti Meshal Algharaib, Redha Gharbi, Adel Malallah Modeling the Performance of Thermal Recovery Techniques on a Heavy Oil Deposit in the Middle East
4:40-5:0 pm	Coffee Break			

5:00 – 6:00pm	Hilton meeting room CFD Combustion: Part II Chairman: Dr. Moh'd Marzouki Co-Chairman: Dr. Iman Zahmatkesh	Majlis Amiri Porous Media: Part II Chairman: Dr. Khalifa Slim Co-Chairman: Dr. Ali-Alshatti	Oasis Ballroom B Micro and Nano Chairman : Dr. Mohammad Kilani Co-Chairman: Dr. Ibrahim Hassan	Oasis Ballroom A Solar-Renewable: Part II Chairman: Dr. Ahmed Hegazy Co-Chairman: Dr. Adel Naser
5:00 pm	Keith King Venelin A. Stamatov NOx Emission from Post-Explosion Combustion of a Bi-Component Fuel Droplet	Satbir Sehgal Gakkhar R.P., Singh K.M Low Emissions of Liquid Fuel Combustion within Submerged Flame Porous Burner	Ibrahim Hassan Roland Muwanga Local Heat Transfer Measurements in Microtubes Using Liquid Crystal Thermography	Naiem Akhtar S. C. Mullick Glass Cover Temperatures and Top Heat Loss Coefficient of a Double Glazed Flat Plate Solar Collector by Indoor Experiments
5:20 pm	Faroukh Okasha No Emission from a Fluidized Bed Combustor Burning Liquid fuels "Modeling and Measurements	Rachid Kibboua Abdelhakim Kechnit, Abdelwahid Azzi Free Convection Laminar Film Condensation On a Cylindrical Tube Coated with a thin Porous layer	Masoud Darbandi S. Vakilipour Thermal Study at the Inlet of Microchannels	G. Soleimani Alamdari Parametric Study of Single Effect Solar Driven Absorption Refrigeration Systems
5:40 pm	Mahboobeh-Zamaninejad K. Mazaheri, M. R. Rajaei Numerical Simulation of Laminar Premixed	Nickolay N. Smirnov Kisselev A.B., Nikitin V.F, Zvyaguin A.V., Hydraulic Filtration and Fracturing in Porous	Mohammad Kilani A. T. Al-Halhouli, A. Al-Salaymeh Numerical Simulations of the Flow Field in a Spiral-	M ta'ani Habali, Ghazi Khdairi, Adnan Mufti A 1kW Power Supply Using Renewable Energy for the

	Methane-Air Flame Using Reduced Mechanisms	Medium	Channel Micropump	United Nations
6:20 pm	Arshad Salema M. Rozainee, Salema*, S. P. Ngo, Guee Boon Chye Thermal Stability in a Newly Designed Columnar-Conical Fluidized Bed for Combustion of Rice Husk	Shapour Vossoughi Mehdi Salehi Parallel Virtual Machine (PVM) and its Application for Underground Heat Conduction Prediction	Mohammad Kilani Paul C. Galambos, Yousef S. Haik, Ching-Jen Chen The Von Karman Viscous Effect in Surface-Micromachined Pumps	
6:20 pm	Closing			

Friday, January 6th, 2006

	Desert Safari Trip-On site registration
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