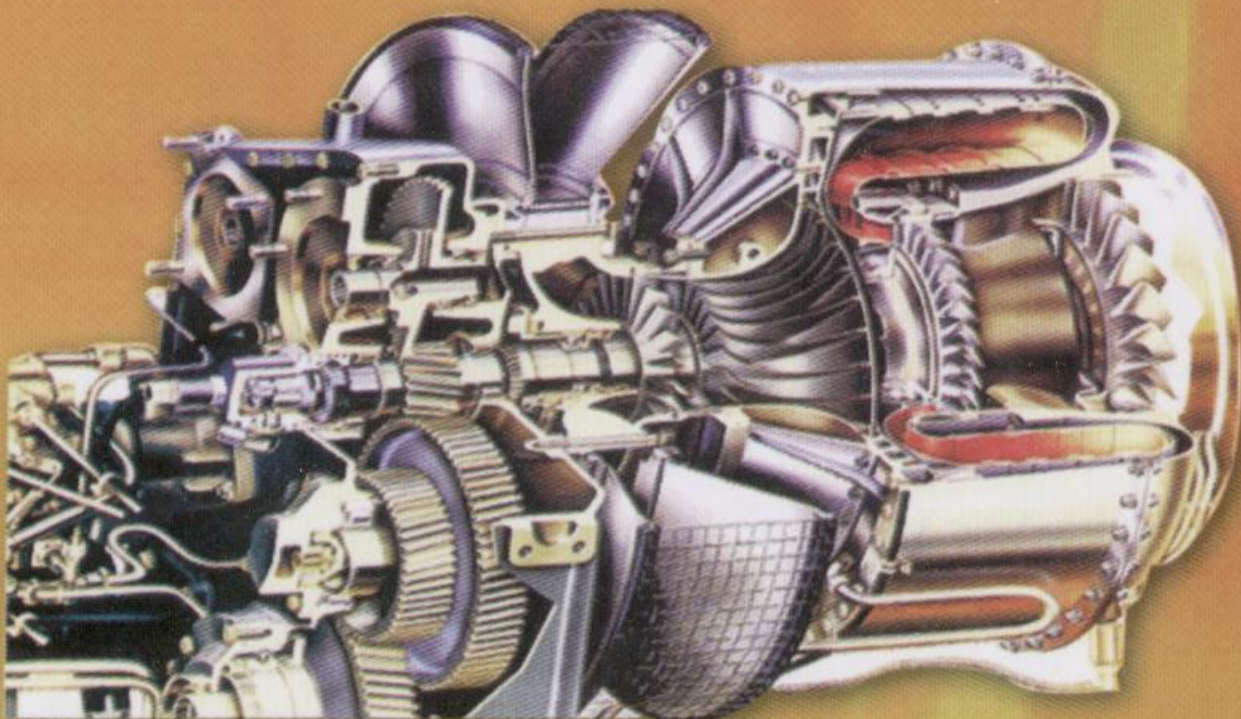


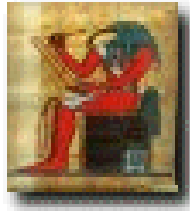


**Eighth
International Congress of
Fluid Dynamics & Propulsion**

**December 14 - 17, 2006
Sharm El-Sheikh , Sinai , Egypt**



Final Program



Eighth
International Congress
of
Fluid Dynamics & Propulsion

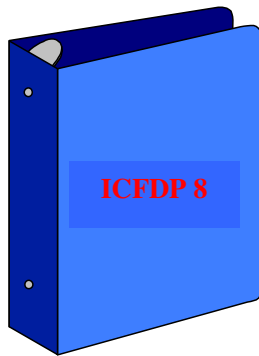
(ICFDP 8)

December 14-17, 2006
Sharm El-Shiekh, Sinai, Egypt

Under the Auspices of H. E.

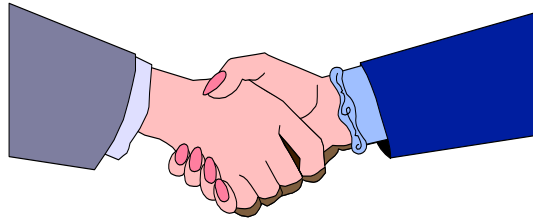
Eng. Sameh Samir Fahmi
Minister of Petroleum

Prof. Dr. Hassan Ahmed Younis
Minister of Electricity and Energy



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WELCOME

مرحباً

The organizing committees extend to every participant a warm welcome to the Eighth International Congress of Fluid dynamics & Propulsion 2006.

We hope that you will find time to follow up and benefit from all researches, and be able to enrich your ethics, businesses and cultural settings. We will do our best to make your stay in Sharm El-Sheikh very enjoyable.

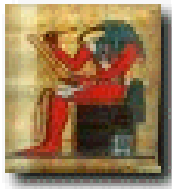
Organizing Committees

Visit our Web Page:

www.zu.edu.eg

CONFERENCE ORGANIZATION

The Conference is organized by:



Cairo University, Egypt



Mansoura University, Egypt



Zagazig University, Egypt



The American Society of Mechanical Engineers (ASME)



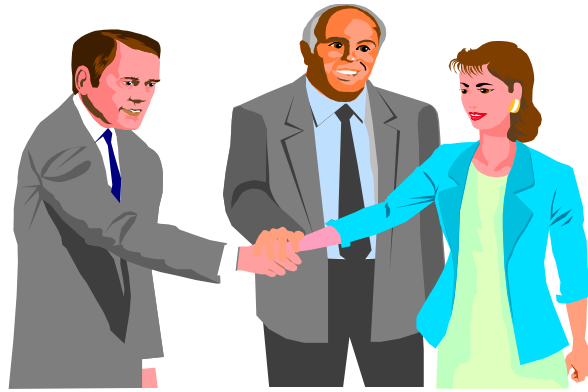
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General Conference Chairman
President, Mansoura University

Prof. Dr. Maher M. El-Domiaty
Honor Conference Chairman
President, Zagazig University

Prof. Dr. Amin Mobarak
General Conference Chairman
Mechanical Power Eng. Department
Faculty of Engineering, Cairo University, Egypt

Prof. Dr. Awatef Hamed
General Conference Chairman
ASME Fellow
Head, Department of Aerospace Eng.
University of Cincinnati



CONFERENCE ORGANIZING COMMITTEE

Executive Local Organizing Committee

General Conference Secretary

Prof. Dr. Nabil H. Mostafa

Mechanical Power Eng. Department

Faculty of Engineering

Zagazig University, Zagazig, Egypt

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- ***Mohamed Safwat*** Mansoura Univ., Egypt
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- ***Nabil H. Mostafa*** Zagazig Univ., Egypt
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- **Dr. R. Walter, MTU, *Germany***
- **Prof. G. Xi, Xian Jiaotong Univ., *China***

PROGRAM BRIEF

THURSDAY – DECEMBER 14, 2006

07:00 – 12:15	Arrival
12:25 – 15:00	Hotel Check in
15:00 – 19:00	Registration
19:00 – 20:00	Opening Ceremony
20:05 – 21:05	Keynote Speech
21:10 – 23:00	Dinner

FRIDAY – DECEMBER 15, 2006

07:00 – 09:00	Breakfast
09:00 – 11:00	Workshop, Session (1)
11:15 – 12:45	Break
13:15 – 15:00	Session (2), Session (3), Session (4)
15:15 – 16:45	Session (5), Session (6), Session (7)
19:00 – 21:10	Dinner

SATURDAY – DECEMBER 16, 2006

07:00 – 09:00	Breakfast
09:15 – 10:45	Session (8), Session (9), Session (10)
11:00 – 12:15	Session (11), Session (12)
13:15 – 15:00	Session (13), Session (14)
15:15 – 16:45	Session (15), Session (16)
19:00 – 21:10	Dinner

SUNDAY – DECEMBER 17, 2006

07:00 – 09:00	Breakfast
09:00 – 10:00	Closing Ceremony
10:30 – 11:00	Hotel Check Out and Departure

Friday, December 15, 2006

Time	Room [A]	Room [B]	Room [C]
09:00 – 11:00	Workshop	Session (1)	
13:15 – 15:00	Session (2)	Session (3)	Session (4)
15:15 – 16:45	Session (5)	Session (6)	Session (7)

Saturday, December 16, 2006

Time	Room [A]	Room [B]	Room [C]
09:00 – 10:45	Session (8)	Session (9)	Session (10)
11:00 – 12:15	Session (11)	Session (12)	
13:15 – 15:00	Session (13)	Session (14)	
15:15 – 16:45	Session (15)	Session (16)	

Thursday 14-12-2006

Keynote Speech

Time: 20:05 – 21:05

ICFDP8-EG-188

Turbine Heat Transfer Research at NASA Glenn Research Center

Prof. Dr. D. R. Reddy

Chief, Propulsion Systems Division, NASA research center

Friday 15-12-2006

Workshop

Time: 9:00 – 11:00

Place: Room [A]

Future of Natural Gas in Egypt: Reality and Ambitions

”مستقبل الغاز الطبيعي في مصر بين الواقع والطموحات“

Sessions



No. of Sessions 16



Session 1

Time: 9:00 AM – 11:00 AM

Place: Room [B]

Chair: Prof. Dr. Khalid S. Abdol-Hamid

Co-Chair: Prof. Dr. Sadek Kassab

Invited Lecture 1:

ICFDP8-EG-176

Three-Dimensional Computational Model for Flow in an Over-Expanded Nozzle with Porous Surfaces

Prof. Dr. Khalid S. Abdol-Hamid

NASA Langley Research Center, Hampton VA, USA

ICFDP8-EG-102

A Modified Flowfield Dependent Variation Method Applied to the Compressible Euler Flow Equations

A. A. Megahed, M. W. El-Mallah, and B. R. Girgis

ICFDP8-EG-122

Solution of Incompressible Euler Equation by an Optimally Efficient Multigrid Technique

S. A. Mohamed, N. H. Mostafa, M. S. Matbuly, and S. Radwan

ICFDP8-EG-131

Experimental and Numerical Study of the Effect of Tip Clearance on Three-Dimensional Flow Field through Linear Turbine Cascade

H. El-Batsh, M. Bassily Hana, and M. F. Sherif

ICFDP8-EG-135

New Approach of BEM Methods to Solve Solute Diffusion Problems with Moving Boundaries

S. G. Ahmed and Intisar A. R. Hadi

Session 2



Time: 1:15 PM – 3:00 PM

Place: Room [A]

Chair: Prof. Dr. Demetri P. Telionis

Co-Chair: Assoc. Prof. Dr. Ahmed F. Abdel Gawad

Invited Lecture 2:

ICFDP8-EG-190

ASME Electronic Products and Its Effects in Science & Technology Field:
Special Cases, EUL Consortia & Petroleum Industry

*Prof. Dr. Shawky Salem, Professor, IT, Alexandria University, Beirut Arab
University & Representative of ASME in Egypt*

ICFDP8-EG-168

Simulation of the Internal Ballistics of a Liquid Propellant Engine Start System
in Comparison with Experimental Verification

H. Karimi, and E. E. Taheri

ICFDP8-EG-170

Foam Drainage and Wetting - A Numerical Investigation

Hyunsun Do, Demetri P. Telionis, and Roe-Hoan Yoon

ICFDP8-EG-174

Failure Analysis of Gas Turbine Combustion Chamber using Computational
Fluid Dynamics

Digvijay B. Kulshreshtha, S. A. Channiwala, and Saurabh Dikshit



Session 3

Time: 1:15 PM – 3:00 PM

Place: Room [B]

Chair: Prof. Dr. Akira Ogawa

Co-Chair: Prof. Dr. Nabil H. Mostafa

Invited Lecture 3:

ICFDP8-EG-189

Prediction of Surge and Rotating Stall in Compressor

Prof. Dr. Nabil H. Mostafa, Faculty of Eng., Zagazig Univ., Zagazig, Egypt

ICFDP8-EG-108

Flow Characteristics in a Magneto-hydrodynamic Micropump

Yasser A. Rihan

ICFDP8-EG-123

Influence of the Volute Design Parameters on the Performance of a Centrifugal Compressor of an Aircraft Turbocharger

Ahmed A. Hassan

ICFDP8-EG-124

Designing a Test Rig for Radial Hydrodynamic Disc Seal (HDS)

Bijan Farhanieh, Mohammad Durali, and Abbas Tourani

Session 4



Time: 1:15 PM – 3:00 PM

Place: Room [C]

Chair: Prof. Dr. Awatef Hamed

Co-Chair: Prof. Dr. El-Adawi S. El-Metwaly

Invited Lecture 4:

ICFDP8-EG-193

Co-Operative Engineering Education for the 21st Century

*Prof. Dr. Awatef Hamed, and Prof. Dr. Bryan Dansderry
Cincinnati University, USA*

ICFDP8-EG-114

Study of Swirling Turbulent Flow and Heat Transfer Characteristics in Conical Diffusers

H. A. Abdalla, M. M. El-Mayit, A. A. Abd El-Hamid, and A. M. El-Shazly

ICFDP8-EG-116

Aero-Thermo-Mechanical Characteristics of Functionally Graded Material Panels with Temperature-Dependent Material Properties

Hisham Hamed Ibrahim, Mohammad Tawfik, and Mohammad Al-Ajmi

ICFDP8-EG-127

Numerical Investigation of Buoyancy-Driven Cavity with Different Mediums and Temperature Differences

Ismail Mohamed Sakr, Ashraf Balabel, Abdelkarim Hegab, and Sobeih Selim

ICFDP8-EG-178

Steady and Pulsed Fluidic Actuation for Cavity Acoustics Control

K. Das, A. Hamed, and D. Basu



Session 5

Time: 3:15 PM – 4:45 PM

Place: Room [A]

Chair: Prof. Dr. Masanobu Namba

Co-Chair: Prof. Dr. Hassan Mansour

Invited Lecture 5:

ICFDP8-EG-173

Improved Scheme for Predicting Fan Tone Noise

Prof. Dr. Masanobu Namba

Department of Aerospace Systems Engineering, Sojo University, Kumamoto, Japan

ICFDP8-EG-104

On the Fluid Dynamical Characteristics of the Pressure Drop for the Axial Flow Cyclone Dust Collectors

Akira Ogawa

ICFDP8-EG-141

Evaluation of Turbulence Models for Flow over a Finned High Speed Train

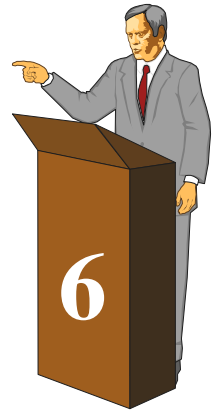
I. K. Mohamed, M. A. Serag-Eldin, A. S. Sabry, and Y. P. Kohama

ICFDP8-EG-142

A Detailed Computational Analysis of the Flow over a High Speed Train Fitted with Guide Vanes

I. K. Mohamed, M. A. Serag-Eldin, A. S. Sabry, and Y. P. Kohama

Session 6



Time: 3:15 PM – 4:45 PM

Place: Room [B]

Chair: Prof. Dr. Hany Moustafa

Co-Chair: Prof. Dr. Mohamed R. Shaalan

Invited Lecture 6:

ICFDP8-EG-191

Future Technology Challenges for Small Aero-Engines

Prof. Dr. Hany Moustapha

Senior Fellow and Manager, P&WC Technology and Collaboration, Pratt & Whitney Canada Corp., Montreal, Canada

ICFDP8-EG-136

Effect of Bend Orientation and Flow Direction on the Behavior of Gas-Solid Flow

K. A. Ibrahim, M. A. El-Kadi, Mofreh H. Hamed, and Samy M. El-Behery

ICFDP8-EG-145

Control Supply in Water Networks - Nonlinear Case

Nagib G. N. Mohammed

ICFDP8-EG-155

Force Convection in Channel Filled Partially with Porous Medium Including the Effects of Thermal Conductivity

Abdulnannan A. Saati



Session 7

Time: 3:15 PM – 4:45 PM

Place: Room [C]

Chair: Prof. Dr. Kyriacos Papailiou

Co-Chair: Prof. Dr. M. A. Serag-Eldin

Invited Lecture 7:

ICFDP8-EG-182

Active Flow Control for Turbulent Separated Flows

Prof. Dr. Kyriacos Papailiou

*Laboratory of Thermal Turbomachines National Technical University of Athens
Athens, Greece*

ICFDP8-EG-132

Upward and Downward Inclination Hydraulic Capsule Pipeline

Ali H. Hammoud, and M. F. Khalil

ICFDP8-EG-133

Experimental Investigation of Hydraulic Capsule Pipeline with Drag Reducing Surfactant

M. F. Khalil, and Ali H. Hammoud

ICFDP8-EG-158

Feasibility of Using Agricultural Waste as a Desiccant for Air Conditioning Systems

R. Samy, A. Khalil, S. Kaseb, and M. A. Kasem

Session 8



Time: 9:00 AM – 10:45 AM

Place: Room [A]

Chair: Prof. Dr. Rainer Walter

Co-Chair: Prof. Dr. Nabil H. Mostafa

Invited Lecture 8:

ICFDP8-EG-192

Economy, Profitability and Environmental Compatibility: Challenges in Future Civil Air Transportation

Prof. Dr. Rainer Walter

MTU Aero Engines GmbH, München, Germany

ICFDP8-EG-167

Simulation of the Dynamic Stall over an Oscillating Airfoil

Ashraf S. Hussein

ICFDP8-EG-172

Numerical Calculation of Particle Separation in a Cyclone Flow using LES

H. Shalaby, K. Wozniak, and G. Wozniak

ICFDP8-EG-181

Multiscale Resolution Requirements for Numerical Predictions of Unsteady High-Speed Cavity Flows and Acoustics

D. Basu, A. Hamed, and K. Das



Session 9

Time: 9:00 AM – 10:45 AM

Place: Room [B]

Chair: Prof. Dr. Francesco Martelli

Co-Chair: Prof. Dr. Mohamed R. Shaalan

Invited Lecture 9:

ICFDP8-EG-186

Unsteady Aerodynamics and Heat Transfer in Transonic Turbine Stages:
Modeling Approaches

Prof. Dr. Francesco Martelli

*Dipartimento di Energetica Università degli Studi di Firenze, via di S. Marta,
Firenze, Italia*

ICFDP8-EG-160

Mathematical Modeling of Gas-Liquid Flows in PEM Fuel Cells

Shih-Hung Chan, Timothy W. Tong, Mohsen Abou-Ellail, and Karam R. Beshay

ICFDP8-EG-162

A New Modification for the Regenerative Steam cycle

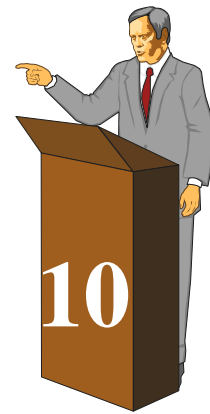
A. S. Hegazy

ICFDP8-EG-185

Turbulent Flow and Convective Heat Transfer in an Annulus with Perforated
Disc-Baffles

A. R. El-Shamy

Session 10



Time: 9:00 AM – 10:45 PM

Place: Room [C]

Chair: Prof. Dr. Takaharu Tanaka

Co-Chair: Prof. Dr. El-Adawi S. El-Metwaly

Invited Lecture 10:

ICFDP8-EG-171

Fundamental Energy Transfer Mechanism Caused in Rotating Flow Passage of Turbomachinery

Prof. Dr. Takaharu Tanaka

Dept. of Mech. Eng., Kobe University, Japan

ICFDP8-EG-149

A Mathematical Model for Magneto-Rheological Dampers Subjected to Sinusoidal Excitation

H. A. Gomaa, E. Saber, and H. El-Gamal

ICFDP8-EG-150

Subsonic Triple Deck Flow past an Eroding Hump

Tarek M. A. El-Mistikawy, and Fayza M. N. El-Fayez

ICFDP8-EG-159

A Boundary Element Approach with New Algorithm to Predict Partial Cavitation around 2D Hydrofoils

Norhan A. Mohamed, Ahmed F. Abdel Gawad, and Said G. Ahmed



Session 11

Time: 11:00 PM –12:25 PM

Place: Room [A]

Chair: Prof. Dr. Hemdan Shalaby

Co-Chair: Prof. Dr. Sakek Z. Kassab

ICFDP8-EG-113

An Experimental Study of an Oblique Multiple Circular Air Jets Impingement on a Flat Plate

Radwan M. Kamal, Mahmoud El sayed Mostafa, and Salem S. Abdel Aziz

ICFDP8-EG-130

Influence of Various Parameters on the Characteristics of Stable and Unstable Oil-in-Water Emulsion

Mohamed F. Kalil, Sadek Z. Kassab, Ashraf S. Ismail, and Ibrahim S. Elazab

ICFDP8-EG-163

Experimental and Numerical Study of Air Jet Vortex Generator for Subsonic Flow

Pawel Flaszyński, Ryszard Szwaba, and Piotr Doerffer

ICFDP8-EG-175

Computational Study of Turbulent Multiple Lobed Jets and Multiple Circular Jets

D. M. Nagendra Karthik, K. R. Prakash, and N. R. Panchapakesan

ICFDP8-EG-179

Transient High-Speed Jet Flow

R. German, and R. E. Khayat

Session 12



Time: 11:00 PM –12:25 PM

Place: Room [B]

Chair: Prof. Dr. Akira Ogawa

Co-Chair: Assoc. Prof. Dr. Ahmed F. Abdel Gawad

ICFDP8-EG-101

Numerical Study of IAQ in Schools

Mahmoud Fouad, Ghada El-Sawah, and Eman Hakim

ICFDP8-EG-106

CFD Simulation for Atrium Smoke Transport and Ventilation with Regard to Exhaust Fans' Plugholing

Mahmoud Fouad, Ghada El-Sawah, and Amr ElBanhawy

ICFDP8-EG-109

Large Eddy Simulation for Flow around Buildings

A. S. A. Zedan, S. S. Ayad, E. A. Abdel-Hadi, and O. A. M. Gaheen

ICFDP8-EG-128

Aerodynamic and Heat Transfer Characteristics around Vehicles with Different Front Shapes in Driving Tunnels

Aly A. Abdel Aziz, and Ahmed F. Abdel Gawad

ICFDP8-EG-147

Numerical and Experimental Study of Wind Load around Buildings of Different Heights

N. M. Guirguis, and M. M. Nassief



Session 13

Time: 1:15 PM – 3:00 PM

Place: Room [A]

Chair: Prof. Dr. Y. P. Kohoma

Co-Chair: Prof. Dr. Ashraf S. Sabry

ICFDP8-EG-103

LES of Turbulent Boundary Layer over a Smooth-Curved Ramp

Wageeh A. El-Askary

ICFDP8-EG-110

Laminar and Turbulent Flow Characteristics of Non-Newtonian Homogeneous Slurries

K. El-Nahhas, and Nabil H. Mostafa

ICFDP8-EG-140

Measurements of Flow over a Model of a Finned High Speed Train

I. K. Mohamed, Y. P. Kohama, A. S. Sabry, and M. A. Serag-Eldin

ICFDP8-EG-152

Nonlinear Control of a Self-Excited System

Ayman A. El-Badawy, and Tarek N. Nasr El-Deen

ICFDP8-EG-165

Experimental Study of Heat Transfer in Pulsating Turbulent Flow in a Pipe

Essayed A. M. Elshafei, M. Safwat Mohamed, H. Mansour, and M. Sakr

Session 14



Time: 1:15 PM – 3:00 PM

Place: Room [B]

Chair: Prof. Dr. Khalid S. Abdol-Hamid

Co-Chair: Prof. Dr. Hassan Mansour

ICFDP8-EG-151

On the Critical Reynolds Number for Vortex Shedding Past Bluff Bodies

K.A. Elshorbagy, E.M. Wahba, and R.S. Afify

ICFDP8-EG-169

Numerical Simulation of Air Humidification Process in a Duct using a Multi-Sprays System

Samy M. Morcos, Mahmoud A. Fouad, Hafez A. El-Salmawy, and Kareem M. Awany

ICFDP8-EG-180

Interest of Direct Numerical Simulations for Investigations of Turbulent Flame Structure and Noise Emissions

Hemdan Shalaby, and Dominique Thévenin

ICFDP8-EG-183

Numerical and Experimental Investigation of Cavitation in Axial Pumps

Nabil H. Mostafa, and Mohammed A. Boraey

ICFDP8-EG-187

Mathematical Modeling of the Effect of Bubbles on Turbulence in a Liquid Jet

M. A. Rizk, A. I. Sayed, M. G. Khalafallah, and A. Mobarak



Session 15

Time: 3:15 PM – 4:45 PM

Place: Room [A]

Chair: Prof. Dr. R. German

Co-Chair: Assoc. Prof. Dr. Ahmed F. Abdel Gawad

ICFDP8-EG-112

Numerical Simulation of Supersonic Boundary Layer near an Expansion-Compression Ramp

Wageeh A. El-Askary

ICFDP8-EG-148

Iterative Solvers and Inflow Boundary Conditions for Plane Sudden Expansion Flows

Essam M. Wahba

ICFDP8-EG-161

CFD Synthesis of a Tandem-Bladed Turbocharger Centrifugal Compressor and Comparison of the Performance and Flow Characteristics with Conventional Design

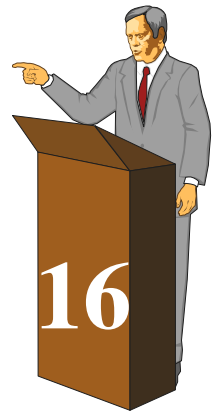
Syed Noman Danish, Ma Chaochen, and Yang Ce

ICFDP8-EG-166

Flow and Heat Transfer Characteristics around a Combination of Elliptic Cylinders In-Line

Aly A. Abdel Aziz, Nabil S. Berbish, and Abdalla S. Hanafi

Session 16



Time: 3:15 PM – 4:45 PM

Place: Room [B]

Chair: Prof. Dr. Pawel Flaszynski

Co-Chair: Prof. Dr. M. Amr Serag-Eldin

ICFDP8-EG-153

Thermal Post-Buckling and Flutter Behavior of Shape Memory Alloy Hybrid Composite Plates

Hesham Hamed Ibrahim, Mohammad Tawfik, and Hani Mohammed Negm

ICFDP8-EG-154

Influence of Operating and Construction Parameters on the Behavior of Hydraulic Cylinder Subjected to Jerky Motion

Sadek Z. Kassab, Ihab G. Adam, Mohamed A. Swidan, and Mohamed Galal Rabie

ICFDP8-EG-164

Thermal Pollution Plume from a Submerged Co-Flowing Multi-Port Diffuser of Power Plants

Mariam Gabr Salim Ali, and Mahmoud Fouad

ICFDP8-EG-177

Analysis of the Pressure Profile in a Tubular Combustion Chamber using Finite Volume Method to Obtain the Discharges Flow Coefficients

Giuliano Gardolinski Venson, Gilberto A. A. Moreira, Ramón M. Valle, and José E. M. Barros

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