

NATIONAL CONFERENCE ON CFD APPLICATIONS IN POWER & INDUSTRY SECTORS

17th - 18th NOVEMBER 2006, Hyderabad, India

Theme

Last decade of this millennium has witnessed extensive embracing of Computational Fluid Dynamics (CFD) by power industries all over the world. Research trend indicates regular use of CFD analysis of various stationary steam flow path components from steam stop-valve to condenser inlet aimed at reduction of total pressure losses.

In the areas of Boiler, Electro Static Precipitator, Heat Recovery Steam Generator and related equipment, CFD studies are carried out to compute flow losses, combustion products, NO_x and the flow velocities in two phase flow situations. Analysis of flow around tubes and flow through tubes with heat transfer effects are needed in super heater/economiser modules for optimizing heat transfer performance. NO_x and SO_x predictions, which are the environmental requirements, can also be done more precisely using CFD approach. To reduce auxiliary power consumption, the efficiencies of fans, blowers, bowl mills etc are to be improved which can be achieved to a great extent through CFD analysis.

CFD has gained entry into process, chemical, sugar, fertilizer and refinery industries in a big way during the last decade. The primary concern is the reduction of loss in ducts/pipes through which the fluid flows and causes significant energy losses.

The conference is aimed at bringing together people working in different aspects of internal aerodynamics and design of power plant equipment such as hydro turbines, steam turbines, gas turbines, condensers, boilers, pumps, fans and compressors, from both within and outside the country, to share their experience. The focus is on developments in aerodynamic design and analysis and technologies that contribute to these developments as applied to design of power plant equipment. The event will provide a forum for presentation and discussions amongst the people for future direction in using the computational tools such as with best practices and quality certification and design for an overall improvement in equipment performance.

Topics

To suit with the theme, the suggested topics for the conference are as follows:

- CFD Simulation of Efficiency and Performance Features related to Turbo-Machines, Steam Generator and Other Power Plant Components.
- Advances in CFD Techniques
- Benchmarking of CFD Results with Experiments
- Simulation of Special Flow Features such as Cavitation, Erosion, Noise, Surge and Choking, etc in Flow Path.
- Best Practices for 3D Geometrical Modelling for CFD Applications.
- Quality Checks and Guidelines for CFD S/W and Results

Call for papers

Full-length papers (Maximum 8 Pages, A4 Size) of original works based on the topics listed earlier are invited in soft form as per ASME paper two-column format.

Poster Session

Limited space is provided for poster session. Students are encouraged to submit papers of original work in the poster session.

IMPORTANT DATES

Receipt of abstract (soft copy)	15 th May 2006
Receipt of full length paper from authors	15 th June 2006
Paper review completion by Technical Committee	15 th July 2006
Notification of acceptance/revision of paper	30 th July 2006
Receipt of final paper with revisions	30 th Aug 2006

CONFERENCE REGISTRATION FEE PER PARTICIPANT

1	Academic Institutes and Research Organizations	Rs.2,000/-
2	Industry	Rs.5,000/-

The Registration Fee covers the conference kit, refreshment and lunch only during the days of the conference. The Registration Fee may be sent by a Demand Draft in favour of BHEL, Corporate R&D, payable at Hyderabad.

Accommodation

Accommodation can be arranged **on request** for participants on self-payment basis.

Advisory Committee:

1	Sri Ramji Rai, Director / Engg, R&D	Chief Patron
2	Sri SK Goyal, GGM / R&D	Patron
3	Dr BP Singh, GM / HGA, Corp. R&D	Member
4	Dr L Siva Kumar, GM / PDS, Corp. R&D	Member
5	Dr YVLN Murthy, GM / AM, Corp. R&D	Member
6	Dr AL Chandraker, GM / TC, Corp. R&D	Convenor

Organizing Committee:

1	Sri KV Ramani, AGM / CFD, Corp. R&D	Member
2	Sri I Rama Rao, AGM / AQS, Corp. R&D	Member
3	Sri G Jagadish Chander, DGM / F, Corp. R&D	Member
4	Sri A Viswanathan, AGM / MCC, Corp. R&D	Member
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7	Dr AL Chandraker, GM / TC, Corp.R&D	Org Secy

REGISTRATION FORM

**NATIONAL CONFERENCE
ON
CFD APPLICATIONS IN POWER & INDUSTRY SECTORS**

17th - 18th November 2006, Hyderabad, India

Name:
Designation:
Affiliation:
Mailing Address:
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Telephone (O) (R)
Fax: Mobile:
E-mail:

Please [] whichever applicable

- I plan to attend the conference
 I intend to submit paper and participate in the conference
 I am interested in the conference

Accommodation required - Yes, No

Tariff - Rs. 1000, Rs. 2000, Rs. 3000, > Rs. 3000

Address for Communication:

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