



Centenary Celebrations



INTERNATIONAL CONFERENCE ON COMPUTATIONAL FLUID FLOW AND HEAT TRANSFER (CFFHT-2018)

March 28–29, 2018

Sponsored by
UGC-DSA Phase-I



Organized by
Department of Mathematics
UGC-DSA Ph-I programme
Osmania University, Hyderabad-500007,
Telangana State, India



Osmania University

Osmania University is a public state university in Hyderabad, India, founded in 1918 with the help of chief Architect of Mahbub Ali Khan Nawab Sarwar Jung. It was established and named after the seventh and last Nizam of Hyderabad, Nawab Mir Osman Ali Khan. It is the third oldest university in the southern India, and the first to be established in the erstwhile princely State of Hyderabad. It is the first Indian university to have Urdu as a medium of instruction.

The Main Campus is ranked tenth among state universities, as published by India Today. As of 2012, the university hosts 3,700 international students from more than 80 nations. The OU is one of the largest university systems in the subcontinent with over 300,000 students on its campuses and affiliated colleges. It is particularly known for its faculty of Engineering and Technology, Law, Arts, Sciences, Commerce and Management departments.

The main campus is a chief intellectual centre in Hyderabad, and its alumni and faculty members include many distinguished individuals, including former Prime Minister of India P. V. Narasimha Rao. The University is accredited by the NAAC with an 'A+' grade and conferred with the status of 'University with Potential for Excellence' by the UGC, New Delhi. This year the university is celebrating 100th anniversary. It has sustained an integrated development of all faculties and contributed to the academic, research, social and economic development across the globe.

Department of Mathematics

The Department of Mathematics is one of the few departments initiated at the time of inception of Osmania University. It has earned reputation for high level academic and research activities across the universities situated in and around the globe. The Department of Mathematics specialises in Mathematics, Applied Mathematics and

Computer Science. It offers M.Sc. and Ph.D. programmes. In recognition of its teaching and research activities the UGC has awarded DRS Phase-I for the period 1994-99, DRS Phase-II from 2002-07, UGC COSIST programme for the period 2002-07, DRS Phase-III for the period 2007-12 and upgraded to DSA Phase- I for the period 2013-18.

Call for Papers

Full papers for the conference should be sent to cffht2018@gmail.com written in English, prepared with MS word (Times New Roman) or LATEX format. The paper must contain a self-explanatory title, full names of authors, affiliations and email addresses. In case of multiple authors, please underline the name of presenting author. The papers presented in the conference will be published in SCOPUS/UGC recognized journal. The corresponding announcement in this regard will be communicated in due course. The author has to bear the publication charges for the accepted papers. Hence interested research scholars can send their papers to the conference convener latest by 16th March, 2018 through e-mail. **All the papers presented in the conference will be sent for review process and the selected papers will published as the special issue on the occasion of Centenary celebrations of the University as AAM Special Issue No. 4 in APPLICATIONS AND APPLIED MATHEMATICS: AN INTERNATIONAL JOURNAL (AAM) for International Conference on Computational Fluid Flow and Heat Transfer (CFFHT-2018) Appl. Appl. Math. ISSN: 1932-9466. The AAM is indexed by ESCI, Emerging Sources Citation Index.**

Conference Theme

This conference is concerned with heat and mass transfer along with fluid flow, and other related processes that occur in the engineering disciplines, in the natural environment and in the living organisms etc. A key role, played by these processes, can be observed in a great variety of practical situations. Fluid (gas and liquid) flows are governed by partial differential equations which represent conservation laws for the mass, momentum, and energy. The Computational aspects of Fluid Dynamics is the art of replacing such PDE systems by a set of algebraic equations which can be solved using digital computers. The prediction of heat and mass transfer in fluid flow processes can be obtained by two main methods: Experimental investigation and theoretical calculation. An experimental investigation involves the performance of the identical-full-scale equipment under the same conditions. Such full-scale tests are, in most cases, prohibitively expensive and often impossible. The alternative approach is to perform experiments theoretically. A theoretical prediction works out the consequences of a mathematical model, rather than those of an actual physical model.

Objectives

The International Conference on CFFHT-18 aims to bring together academicians, researchers and leading scientists for knowledge sharing and discuss recent developments in computational aspects of fluid dynamics problems. It also provides the premier interdisciplinary forum for researchers, practitioners and educators to present

and discuss the most recent innovations, trends, and concerns, practical challenges encountered and the solutions adopted in the field of computational fluid flow and heat transfer problems.

Topics

Topics of the conferences, but not limited to, are the following:

- Computational Fluid Dynamics
- Fluid Mechanics, Heat Transfer and Mass Transfer
- Newtonian and Non-Newtonian fluid flows
- Bio-Mechanics
- Magneto-Hydrodynamics
- Finite Element, Finite Difference Methods
- Nanofluids
- Numerical methods in fluid flow and heat transfer
- Flows through porous media
- Operator Theory & Functional Analysis

Registration Particulars

Registration Fee for participants from	
Industry	Rs.2,500
Academic Institutes	Rs.2,000
Research Scholars	Rs.1000
Foreign Delegates	USD 200
Foreign Students	USD 100

The registration fee has to pay through online by NEFT to " The Head Department of Mathematics, Osmania University, Hyderabad A/C. No: **52198268002**; IFSC Code No: SBIN0020071
Or DD in favour of "The Head Department of Mathematics, Osmania University, Hyderabad"
payable at Hyderabad.

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Accommodation :

Accommodation will be arranged for outstation participants in the University Guest House .

The author's are advised to submit the papers through the following website:

Website: <https://easychair.org/conferences/?conf=cffht2018>