

CHEW 2020

3rd International Workshop on Compact Heat Exchangers for Aerospace Applications

2nd & 3rd January 2020

Jointly organized by
Aeronautical Development Agency, Bangalore &
Dayananda Sagar University, Bangalore



**Venue: School of Engineering, Dayananda Sagar University
Kudlu Gate, Hosur Road, Bangalore - 560 068**



Website: <https://www.ada.gov.in/workshop/chew-2020.pdf>
<http://www.dsu.edu.in>

SCOPE:

Aeronautical Development Agency (ADA) and BHEL, Vizag has established Compact Heat Exchangers (CHEs) technology and successfully flight tested in Tejas Aircraft. ADA has conducted 1st International Workshop on CHEs in January, 2010 at ADA in association with BHEL, Vizag & CEMILAC, Bangalore and 2nd International Workshop on CHEs was conducted in December, 2015 at PES University in association with them.

The 3rd International Workshop on CHEs for Aerospace Applications - CHEW 2020 is jointly organized by ADA and Dayananda Sagar University (DSU), Bangalore at DSU, Bangalore on 2nd & 3rd January 2020. The CHEW 2020 focuses on recent developments in the area of Compact Heat Exchangers. This is being planned as a post workshop to IHMTC 2019 conference to be held at IIT Roorkee, 28 – 31 December 2019. The workshop aims with the participation of eminent scholars in the field of Heat Transfer and Heat Exchangers with emphasis on future aeronautical programs being pursued in the country and to provide awareness to the research scholars/students in this area.

OBJECTIVES:

- To identify the recent advances in CHE technology.
- To have comprehensive information on the intricacies of design, operation problems and elite state of the technology.
- To highlight the usage of phase change applications such as compact evaporators or condensers, which are required to use in the recent developments like “All electric/More electric ECS”.
- To gain knowledge about generation of Colburn ‘ j ’ factor & friction factor ‘ f ’ design data for the development of phase change Compact Heat Exchangers.

ORGANISERS:

Jointly organized by: ADA and Dayananda Sagar University (DSU), Bangalore.

AERONAUTICAL DEVELOPMENT AGENCY:

Aeronautical Development Agency, Bangalore, an autonomous body under Ministry of Defence, is presently functioning as the nodal agency for the design and development of TEJAS, Light Combat Aircraft (LCA) and its derivatives like Trainer and Naval variant. ADA is also involved in feasibility studies of advanced projects like Advanced Medium Combat Aircraft (AMCA) and other futuristic combat air vehicles.

DAYANANDA SAGAR UNIVERSITY:

Created by an Act of Karnataka State in 2014, has been meeting the needs of quality higher education in India. The School of Engineering under DSU provides science and technology based education which is required to develop high quality engineers suitable for industry and scientific organizations. DSU offers courses in engineering, computer applications, science, arts and Managements at Bachelors, Masters and PhD Levels. Focusing on the future trends where India is deemed to be research and development hub of the world, University has already established innovation laboratories in collaboration with world renowned Multi-National Companies like Autodesk-Virtual Design, Bosch Rexroth-Automation Technologies, Automotive System Lab by ETAS (BOSCH), IBM- Software technologies, NVIDIA-Boston innovation lab, VMWare IT Desk, Besides a world class incubation center called DERBI and a Centre of Excellence by Dassault Systems-Aerospace Engineering Lab.

CHIEF PATRONS:

Dr. G. Satheesh Reddy, DS, Chairman-DRDO, DG-ADA & Sec. DD (R&D)

Dr. Premachandra Sagar, Vice Chairman & Pro Chancellor, DSU Bangalore

PATRONS:

Dr. Girish S. Deodhare, DS, PGD (CA) & Director, ADA

Dr. A. N. N. Murthy, Vice Chancellor, DSU

CHAIRMAN:

Dr. S. R. Shankapal, Pro-Vice Chancellor, DSU

CO-CHAIRMEN

Dr. C. Ranganayakulu, Sc 'H'/OS, TD (GS) & Director (MM), ADA

Dr. M. S. Rajagopal, Chairman, Mechanical, School of Engineering, DSU

CONVENERS

Dr. G. K. Suryanarayana, Professor, Aerospace Department, DSU Bangalore

Dr. K. V. Ramana Murthy, Scientist - 'E', (GS) & DPD (CHE), ADA

ADVISORY COMMITTEE

1. Prof. K. N. Seetharamu, Chair Professor, PES University Bangalore
2. Prof. Stephan Kabelac, Leibniz University, Hannover, Germany
3. Prof. S. R. Shankapal, Pro VC, DSU, Bangalore
4. Dr. A. Srinivas, Dean, DSU, Bangalore
5. Prof. Pradip Dutta, IISc Bangalore
6. Prof. P. Nithiarasu, Swansea University, UK
7. Dr. Vishwas V. Wadekar, Technology Director, PS2E, France
8. Prof. Xing Luo, Leibniz University, Hanover, Germany
9. Prof. V. Vasudeva Rao, University of South Africa
10. Mr. S. V. S. Srinivas, Sr. Manager, BHEL Visakhapatnam

ORGANISING COMMITTEE

1. Mr. Girish G. Dixit, Scientist 'H', TD (IFCS) & Director (Admin & HR), ADA
2. Mr. G. Ramakrishnan, Scientist 'H', TD (I&CT), ADA
3. Mr. Sankaraiah Mada, Scientist 'H', GD (ECS & ILSS), ADA
4. Mr. K. Nagaraja, Scientist 'G', GD (GS-EIS), ADA
5. Mr. M.A. Anandan, Offg. Jt. Director (Finance), ADA
6. Dr. M. Amarnatha Raju, Scientist 'F', ADA
7. Mr. Adam M. Mullanavar, AO (Transport), ADA
8. Mr. S.R. Nanda Prasad, AO (PR), ADA
9. Dr. C. Puttamadappa, Registrar, DSU
10. Dr. B V N Ramakumar, Chairman-AE, DSU
11. Mr. S. Naveen Kumar, DSU
12. Mr. N. Kiran Raj, DSU

SPEAKERS

1. Prof. K. N. Seetharamu, Retd. Prof. IIT Madras & Chair Prof., PES University
2. Prof. Prasanta Kumar Das, IIT Kharagpur, West Bengal
3. Prof. Sunil Sarangi, Former NIT Rourkela Director
4. Prof. P. Nithiarasu, Swansea University, UK
5. Prof. Sripad Revankar, Purdue University, USA
6. Prof. Xing Luo, Leibniz University, Hanover, Germany
7. Dr. C. Ranganayakulu, Sc 'H'/OS, TD (GS) & Director (MM), ADA
8. Dr. Vishwas V. Wadekar, PS2E, France
9. Prof. P. Muthukumar, IIT Guwahati
10. Prof. Pramod Kumar, IISc Bangalore
11. Prof. Debjyoti Banerjee, Texas A & M University USA
12. Prof. V. Vasudeva Rao, University of South Africa
13. Prof. Krishnan Murugesan, IIT Roorkee

WORKSHOP TIMINGS:

02/01/2020:

Registration : 0900 to 0930 hrs
Inauguration : 0930 to 1010 hrs
Technical Sessions : 1030 to 1650 hrs

03/01/2020:

Technical sessions : 0900 to 1550 hrs
Closing Session : 1550 to 1630 hrs

REGISTRATION FEE:

Industry Personnel : Rs.3000 per person
Faculty from Educational Institutions/
Scientists from Research Laboratories : Rs.2000 per person
Students : Rs. 1000 per student (Rs. 500 per student for DSU)
Foreign Participants : \$ 70 / € 50

CONTACT PERSONS

Mr. Partha Pratim Kemprai
Scientist 'C'(GS), ADA
Ph. No : +91-80-2508 7624
Fax. No : +91-80-2508 7670
Email: k.partha@jetmail.ada.gov.in

Mr. S. Naveen Kumar
Asst. Professor, M.E. Department, DSU
Ph. No: +91 7795664442
E-Mail : naveenkumar-me@dsu.edu.in

GENERAL INFORMATION:

1. All invited speakers are exempted from registration fee.
2. Foreign nationals who are participating in the workshop are required to send their Bio-data by 15th November 2019.

BANGALORE CITY:

The capital city of Karnataka, Bengaluru popularly known as garden city of India is located 1000 meters above sea level. It has many structures with historic and architectural value, a few of them are grandiose Vidana Soudha, Bull Temple, Tippu Summer Palace, Lalbagh, Vishweswaraiah Industrial Museum and the ISKCON temple. The city boasts of several institutions of research and higher learning, laboratories and IT industries and numerous high-tech industries in aerospace and automobile. The shopping malls of Bengaluru offer a fine selection of silk, sandalwood, handicrafts and fragrant incense sticks. During January, weather is very pleasant and ideal for sightseeing. Within a distance of 250 kms, one can find many historical places like Belur, Halebidu, Shravanbelagola, Mysore, Srirangapattana and Tirupati.



Vidana Soudha



Lalbagh



Mysore Palace



Bangalore Palace

CHEW 2020

**3rd International Workshop on Compact Heat Exchangers for
Aerospace Applications**

2nd & 3rd January 2020

REGISTRATION FORM

Prof.

Dr.

Mr.

Mrs.

Ms.

Name:.....

First Name:.....

Affiliation:.....

Mailing Address:.....

.....

.....

Tel:.....**Fax:**.....

Email:.....**Mobile:**.....

PAYMENT DETAILS: Payment may be made through

(a) NEFT to the following Account:

Name of Account Holder: Dayananda Sagar University

Account Type: SB, A/C No. 040101004737, IFSC Code: ICIC0000401

Bank Details: ICICI Bank, J P Nagar Branch, Bangalore 560078

(b) DD drawn in favour of Dayananda Sagar University, Payable at Bangalore

Payment amount:.....(in Words).....

DD. No:.....**Bank:**.....**Date:**.....

Date:

Place:

Signature

The registration form along with required DD should be sent to the Mr. S. Naveen Kumar, Dept. of Mechanical Engineering, Dayananda Sagar University, Bangalore before 30th November 2019.

In case of NEFT, softcopy of the filled registration form should be e-mailed along with UTN to naveenkumar-me@dsu.edu.in

Note: Use photocopies of Registration form if more number of copies are required.