

Papers from Industry Personnel / Consultants

Industry Personnel and Consultants in R & AC field can submit the papers in the prescribed format by email (ncrac2020@gmail.com). All such papers will be peer reviewed by a committee of prominent persons both from Industry and Academia. Authors are required to submit the revised manuscript in the prescribed format incorporating all the suggested corrections to the Technical Committee for final acceptance. Separate sessions will be allotted for presentation of these papers. Presentations like field experience, new developments / trends, case study etc. are expected in these sessions.

Topics

The conference will cover all areas of Refrigeration and Air Conditioning, some of which are

- * RAC components, standards and test facilities
- * Sorption cooling and heating systems
- * Desiccant and evaporative cooling
- * Refrigerated Cold chain, transport and cold stores
- * District heating / cooling
- * Cold / heat recovery and energy efficiency
- * Poly-generation
- * Indoor air quality
- * Green buildings
- * Industrial ventilation
- * Low temperature applications
- * Novel / Alternate Systems
- * Building services and automation
- * Natural / New refrigerants and mixtures
- * Building services and automation

All the selected papers will be published in SCI, Scopus Indexed Journal [Anna University Journal List - Annexure I]

Important Deadlines

Short Abstracts (250 words)	: 30 th June 2019
Abstract acceptance Notifications to authors	: 30 th July 2019
Manuscript of full paper	: 5 th October 2019
Paper acceptance / Revision notification to authors	: 30 th November 2019
Submission of revised papers	: 20 th January 2020
Conference dates	: 20-22 February 2020

Registration Fee

The normal registration fees per delegate is Rs.5,000/-. Authors from Academic Institutions and Research Laboratories, and Students will pay only Rs.3,000/-. Discounts for group registrations are available on request. Registration Form will be made available in the second announcement.

Sponsorship and Advertisement

Sponsors will get opportunity to make product presentations, display table top products, posters and catalogues, and distribute their pamphlets and brochures. The printed proceedings / souvenir will contain all plenary, keynote and invited papers, abstracts of contributed papers and advertisements. The details will be made available in the second announcement.

Accommodation

Information about the availability and cost of Hostel, Guest House and Hotel accommodations will be made available in the second announcement.

Address for Correspondence

Dr. P. UDHAYAKUMAR

Organizing Secretary,
National Conference on Refrigeration and Air Conditioning (NCRAC 2020)
Department of Mechanical Engineering,
K.L.N. College of Engineering,
Pottapalayam - 630 612 (11kms from Madurai City)
Sivagangai District, Tamilnadu, India
Phone : (0452) 2090971, 2090972 Extn: 229
Email : ncrac2020@gmail.com

First Announcement and Call for Papers

6th National Conference on Refrigeration and Air Conditioning NCRAC – 2020

20-22 February 2020

Theme: Ushering Development through
Sustainable Cooling

Organized by



Indian Institute of Technology Madras
Chennai

In association with



Department of Mechanical Engineering
K.L.N. College of Engineering
Madurai

Supported by



and



Objectives

Aspirations and needs of mankind are ever growing, and so also the need for Refrigeration and Air Conditioning (R&AC). Now it is an important aspect of human life including essential applications from submarines to airplanes, underground mines to space, and comfort purpose to manufacturing industries. The importance of 'cold chain' in the national food security has now been recognized. In the recent years, R&AC industry recorded an annual growth of over 25% in India, next only to Information Technology and Automobile sectors. However, R&AC is also an energy guzzler accounting to nearly one sixth of the world energy consumption. Even though the objective of Montreal Protocol governing the ozone depletion is nearly met, those of Kyoto Protocol centered on the emissions leading to Global Warming are yet to be realized. Thus both energy and environmental aspects play an important role in the development of R&AC sector worldwide.

The 6th National Conference on Refrigeration and Air Conditioning (NCRAC-2020) is organized by IIT Madras in association with Department of Mechanical Engineering, K.L.N. College of Engineering during 20-22 February 2020. The Conference aims to bring together leading experts in the field from academia, industry and consultancy from all over India. It provides a platform to discuss the latest trends and ongoing research, and share / disseminate the knowledge, thereby popularizing the subject amongst budding engineers and scientists. The conference offers an excellent opportunity to exchange information amongst researchers working in academic institutions / R&D organizations, to present and publish research findings and interact with the experts.

About IIT Madras

Indian Institute of Technology Madras is one of the premier institutions of national importance in higher technical education and basic & applied research. It was established in 1959 by the Government of India in collaboration with the German Government. IIT Madras is a township of about one square mile area located in the city of Chennai. It is a residential institution with about 590 faculty, 10350 students and 680 supporting staff. The Institute has sixteen academic departments and a few advanced research centers in various disciplines of engineering and pure sciences, with about 100 laboratories. The self-contained township carved out of the Guindy National Park with wildlife houses nearly 15,000 residents. It has improved the flora and fauna over the years & has about 300 species of trees and plants including native wild ones. It is conveniently located at a distance of about 12km each from airport and railway station.

About K.L.N. College of Engineering

K.L.N. College of Engineering (KLNCE) is the first self-financing Co-educational Engineering College in Madurai, started in 1994 by Munificence of Philanthropist and well-wishers in Sourashtra Community which is a linguistic minority in Tamilnadu. This college is sponsored by the committee of eminent industrialists and academicians led by enthusiastic, educationalist and industrialist (Late) Thiru K.L.N. Krishnan. This college has the approval of All India Council for Technical Education, New Delhi and is affiliated to Anna University, Chennai. This college is situated on the South Eastern outskirts of Madurai, 11th Km on Madurai – Nedungulam Road. It is built in an area of 53.8 acres. This College offers Seven Undergraduate Programmes, Seven Postgraduate Programmes and Doctoral Programmes in Engineering. The college is accredited by National Assessment and Accreditation Council (NAAC) and also an ISO 9001 : 2015.

About Department of Mechanical Engineering

The Department of Mechanical Engineering is well equipped with qualified and experienced faculty members with research and industrial background. The Department offers B.E Degree course in Mechanical Engineering, M.E Degree course in CAD/ CAM and Research Programme leading to Ph.D. The Department is accredited for 5th time by NBA, New Delhi. Anna University Chennai has recognized the Department as Research centre for Ph.D work. Five staff members are recognized as supervisors for guiding the Ph.D scholars of the University.

Committees

Patrons:

Prof. Bhaskar Ramamurthi, Director, IIT Madras
Dr. A.V. Ramprasad, Principal, KLNCE
Mr. Vikram Murthy, National President, ISHRAE

Chairman:

Prof. M. P. Maiya, IIT Madras

Co-Chairman:

Dr. R. Saravanan, Anna University, Chennai

Organizing Secretary:

Dr. P. Udhayakumar, KLNCE, Madurai.

Scientific committee consisting of eminent persons from academia, industries, ministries, and so on & Technical Committee including persons from academia, consultancy and industries have been formulated. The Local Organizing Committee comprises faculty from IIT Madras, Anna University Chennai, KLNCE and members from ISHRAE Madurai and ASHRAE Chennai.

Abstracts and Papers

Papers from Academia (Research Papers) Authors intending to present research papers must submit an abstract of 250 words by email (ncrac2020@gmail.com). Upon acceptance of the abstract, authors are required to send the full paper in the prescribed format. All papers will be reviewed to ensure high standards. Authors are required to submit the revised manuscript in the prescribed format incorporating all the suggested corrections to the Technical Committee for final acceptance.