

## About Conference

BITS-Pilani Dubai campus invites delegates from academia and industry to be a part of two-and-a-half days of International Conference on Recent Advances in Fluid and Thermal Sciences (iCRAFT 2018). The conference aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about key areas of Mechanical, Aerospace, Chemical and Civil Engineering. It also aims to provide the 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 Fluid and Thermal Sciences. The conference will have oral and poster presentations from delegates from academia, R & D organizations and Industries.

## Theme of the Conference

*Authors are invited to submit abstracts covering, but not limited to, the following areas:*

### A. Fluid Mechanics (Analytical, Experimental and Numerical)

- A.1 Fluids Engineering Education
- A.2 Boundary Layer Flows
- A.3 Low-Speed and High-Speed Flows
- A.4 Laminar and Turbulent Flows
- A.5 Active and Passive Flow Control
- A.6 Bio-Inspired Fluid Mechanics
- A.7 Transport Phenomena in Mixing
- A.8 Transport Phenomena in Materials Processing and Manufacturing
- A.9 Transport Phenomena in Energy Conversion
- A.10 Fluid Structure Interaction
- A.11 Environmental Flows
- A.12 Industrial Flows and Commercial Processes
- A.13 Fluid Power Systems
- A.14 Fluid machinery
- A.15 Multiphase-flow systems
- A.16 Fluids Measurement and Instrumentation
- A.17 Micro-/Nano-fluidics
- A.18 Hydrodynamics
- A.19 Aerodynamics
- A.20 Wind Turbines
- A.21 Rheology of Complex Fluids
- A.22 Porous Media
- A.23 Drag Reduction

### B. Heat Transfer (Analytical, Experimental and Numerical)

- B.1 Conduction, Convection and Radiation
- B.2 Boiling and Condensation
- B.3 Adsorption and Desorption
- B.4 Spray and Atomization
- B.5 Compact and Conjugate Heat Exchangers
- B.6 Heat Exchangers
- B.7 Heat Transfer Enhancement
- B.8 Heat Pipes
- B.9 Plasma Physics and Engineering
- B.10 Thermoelectric Devices
- B.11 Multiphase Systems
- B.12 Inverse Problems
- B.13 Turbomachinery
- B.14 Thermophysical Properties
- B.15 Aerospace Heat Transfer
- B.16 Electronic Equipment Heat Transfer
- B.17 Environmental Heat Transfer
- B.18 Biomedical Applications
- B.19 Other Heat Transfer Devices

### C. Fuels and Energy

- C.1 Internal Combustion Engines
- C.2 Combustion, Flames and Fires
- C.3 Renewable Energy Systems and Sustainability
- C.4 Pollution Emission Control Systems
- C.5 Electric and Hybrid Electric Vehicles
- C.6 Energy Conversion and Storage Techniques
- C.7 Natural and Built Environments
- C.8 Zero Energy Buildings
- C.9 Heating, Ventilation and Air-Conditioning (HVAC) Systems
- C.10 Advanced Energy Systems
- C.11 Fuel Cell Systems Design and Application
- C.12 Non-Renewable Energy Systems

### Publication:

Original research articles broadly within the scope of the conference topics, written in English language, are solicited. Authors will have options to present their research work through an **Oral Presentation** and/or a **Poster Presentation**. Authors are invited to initially submit a 1-page Abstract (in appropriate template), followed by a full-length paper (8 pages) upon the acceptance of the Abstract. The full-length paper would undergo peer review resulting in the acceptance/rejection for the presentation at the conference. The conference proceedings will contain peer-reviewed papers, and will be distributed in digital form. The conference proceedings will contain peer-reviewed papers, and will be distributed in digital form.

The conference proceedings will be published in **Scopus-indexed Journal/Series** (under finalization, **details to be updated on Website**). One Author can submit a maximum of two papers (one oral presentation + one poster).

### Key Dates:

|                            |  |
|----------------------------|--|
| Abstract Submission:       | <b>31<sup>th</sup> July 2018</b>                     |
| Abstract Acceptance:       | <b>15<sup>th</sup> August 2018</b>                   |
| Manuscript Submission:     | <b>15<sup>th</sup> September 2018</b>                |
| Manuscript Acceptance:     | <b>30<sup>th</sup> September 2018</b>                |
| <i>(after Peer Review)</i> |  |
| Early Bird Registration:   | <b>20<sup>th</sup> October 2018</b>                  |
| Registration Deadline:     | <b>10<sup>th</sup> November 2018</b>                 |
| Conference:                | <b>5<sup>th</sup> - 7<sup>th</sup> December 2018</b> |

### Awards:

*Students and Research Scholars*

Prizes will be awarded to **3 best papers** presented by undergraduate and graduate students.

*Researchers / Professionals*

Prizes will be awarded to **3 best papers** presented by a researcher from academia and industry.

Session Chairs / Judges will decide on the awards based on the quality of both the written paper, the presentation and the quality of work.

### Accommodation:

Please check the conference website for suitable accommodation options near venue. Single-occupancy rooms in campus hostel can be provided on request basis at nominal rates which include meals.

## Conference Committee

### Chief Patron

Prof. Souvik Bhattacharyya, Vice Chancellor, BITS-Pilani

### Patron

Prof. R. N. Saha, Director, BITS Pilani, Dubai Campus

### Organizing Secretary

Prof. M.V.N. Sankaram

### Convener

Dr. Shashank Khurana

✉ [skhurana@dubai.bits-pilani.ac.in](mailto:skhurana@dubai.bits-pilani.ac.in)

☎ +971 56 5660572

### Co-Convener

Prof. R. Udayakumar

✉ [udayrn@dubai.bits-pilani.ac.in](mailto:udayrn@dubai.bits-pilani.ac.in)

☎ +971 55 7521025

## iCRAFT 2018 – International Advisory Committee

- Prof. Kojiro Suzuki, The University of Tokyo, Japan
- Prof. Debjyoti Banerjee, Texas A&M University, USA
- Prof. Shripad P. Mahulikar, IIT-Bombay, India
- Prof. Amit Agrawal, IIT-Bombay, India
- Prof. E. Rathakrishnan, IIT-Kanpur, India
- Prof. C. Balaji, IIT-Madras, India
- Prof. Toshiharu Mizukaki, Tokai University, Japan
- Prof. Rajiv Gupta, BITS Pilani-Pilani Campus, India
- Prof. P. Srinivasan, BITS Pilani-Pilani Campus, India
- Prof. Ajit Pratap Singh, BITS Pilani-Pilani Campus, India
- Prof. Amit Kumar Gupta, BITS Pilani-Hyderabad Campus, India
- Prof. Ranjit S. Patil, BITS Pilani-Goa Campus, India
- Prof. Shibu Clement, BITS Pilani-Goa Campus, India
- Prof. Rahul V. Ralegaonkar, VNIT-Nagpur, India
- Prof. Shashikant B. Thombre, VNIT-Nagpur, India
- Dr. Delia Dimitriu, Manchester Metropolitan University, UK
- Dr. Luca Mazzola, Centro Italiano Ricerche Aerospaziali, Italy
- Dr. Sankaranarayana Samy, NIT-Karaikal, India
- Dr. Sathish Kannan, American University of Sharjah, UAE
- Mr. L. R. Rajakumar, Valeo Friction Materials India Ltd., India

## iCRAFT 2018 – Local Organizing Committee

- Prof. C. Periasamy
- Prof. R. Karthikeyan
- Dr. Vincent Shantha Kumar
- Dr. Priyank Upadhyaya
- Dr. Naveen Kumar Shrivastava
- Dr. Snehaunshu Chowdhury

### Registration Fees\*

The registration fees for participants are:-

| Participant Profile                   | Early Bird<br>(15 <sup>th</sup> Sept.-<br>20 <sup>th</sup> Oct.2018) | Regular<br>(21 <sup>st</sup> Oct.-<br>10 <sup>th</sup> Nov.2018) |
|---------------------------------------|--|--|
| Delegates from Academia               | 250 USD<br>(920 AED)   | 300 USD<br>(1100 AED)  |
| Delegates from Industries             | 300 USD<br>(1100 AED)  | 350 USD<br>(1285 AED)  |
| Research Scholars<br>(Ph.D / M.Tech.) | 150 USD<br>(550 AED)   | 200 USD<br>(735 AED)   |
| Student Delegate<br>(B.Tech.)         | 75 USD<br>(275 AED)  | 125 USD<br>(460 AED)   |

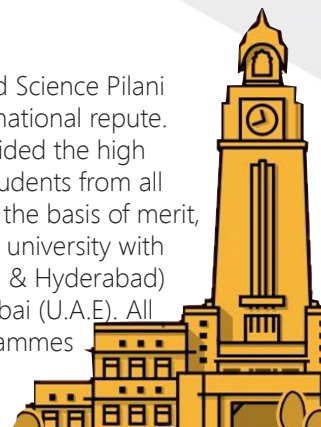
\* All Prices are INCLUSIVE of 5% VAT at the current rate

**Registration fees covers** participation in all sessions of the conference, a copy of the proceedings, lunches, refreshments and gala dinner. All the registered delegates would be accompanied to **Desert Safari** (admission included in Registration Fee) on the final day of the Conference post-Lunch.



## About BITS Pilani

The Birla Institute of Technology and Science Pilani (BITS Pilani) is an institution of international repute. Over the years, BITS Pilani has provided the highest quality technical education to students from all over India and abroad admitted on the basis of merit, only. BITS Pilani is a multi-locational university with three campuses in India (Pilani, Goa & Hyderabad) and one international campus in Dubai (U.A.E). All four campuses offer degree programmes (B.E, M.E & Ph.D) in Engineering, Science and Technology.



**BITS Pilani-Dubai Campus**, the international campus of Birla Institute of Technology and Science, Pilani is one of the largest and the only institution exclusively dedicated to Engineering and Technology education in Dubai. It attracts a large number of students from UAE, other GCC countries, Asia, Africa and Far East. From Dubai Campus, BITS Pilani offers B.E.(Hons.), M.E., M.B.A. and Ph.D. programmes in various engineering and allied disciplines and more than 1700 students are admitted at the campus from over 20 countries world-wide. The vibrant campus has state-of-the-art infrastructure and provides an opportunity to acquire best quality education in an international environment from well-experienced, highly qualified and dedicated faculty and research facilities.

## About Mechanical Engg. Dept.

The Mechanical Engineering Department at BITS Pilani Dubai campus is one of the major departments in terms of faculty, students, and activities. It continues to lead and expand its activities in various directions. The Department has well-qualified faculties from prestigious institutions who are experts in various domains of mechanical engineering. The Department offers academic programmes leading to B.E. Mechanical Engineering, M.E. Design Engineering and Ph.D. degrees.

# International Conference on Recent Advances in Fluid and Thermal Sciences iCRAFT 2018

## Call for Papers



**BITS Pilani**  
Dubai Campus

**December 5-7,2018**

Organized by  
**Dept.of Mechanical Engineering**

BITS Pilani Dubai Campus,  
Academic City,  
P.O.Box No. 345055, Dubai, UAE.

✉ : [icraft2018@dubai.bits-pilani.ac.in](mailto:icraft2018@dubai.bits-pilani.ac.in)

🌐 : [www.icraft2018.com](http://www.icraft2018.com)