

Venue

The Venue of the conference is Sant Longowal Institute of Engineering and Technology, Longowal which is by road about 150 km from Chandigarh "The City Beautiful"; 205 km from Home of the glorious Golden Temple, the Iconic city of Amritsar, 260 km from Shimla "The Queen of the Hills" 275 km from New Delhi "The National capital of India", 350 km from Dharamsala, a true global village and the second winter capital of Himachal Pradesh, 410 km from Manali, a gift of the Himalayas to the world, 470 km from Agra, "The city of Taj Mahal" and 480 km from Jaipur, "The Pink City".

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AME-2020

AISCT-2020

ACFBT-2020

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Dr. Amit Rai, A.P., CHE

Mr. Vinod Kumar Meena, A.P., CHE

Ms. Subita Bhagat, A.P., CHE

Registration and Full Length Paper Submission

Authors are invited to submit extended abstract (within 2 pages) and full length paper through EasyChair Conference Management System (<https://easychair.org/conferences/?conf=slietcon2019>). It is mandatory for one of the authors to register and present the paper for inclusion in the conference proceedings. The paper template for extended abstract and full length papers (within 6-8 pages) may be downloaded from SLIETICON-2020 website.

Important Dates for Authors

Extended Abstract submission	:	November 25, 2019
Acceptance Notification of Extended Abstract	:	November 30, 2019
Submission of full paper	:	December 15, 2019
Revised paper Submission	:	January 15, 2020

Accommodation

Limited accommodation is available at the venue. Information regarding accommodations in the nearby vicinity on payment basis will be made available. The details are available at conference website.

Registration Fee

Category	Indian (in Rs.)		International (in USD)	
	Registration Fee		Registration Fee	
	Early Bird Before 31/12/19	Regular After 31/12/19	Early Bird Before 31/12/19	Regular After 31/12/19
Student/Postdoc	3000.00	3500.00	125.00	150.00
Academic/Nonprofit organization	4500.00	5000.00	200.00	225.00
Industry	8500.00	10000.00	275.00	325.00

Maximum One article could be contributed on a single registration. The registration fee includes registration kit, copy of conference proceedings, Breakfasts, Lunches, Dinneres and session tea.

Mode of payment

Registration fee along with registration form is to be sent in the form of DD drawn in favour of account name of respective track payable at Longowal. The participants can also deposit registration fee by bank transfer and send the online transaction details to the organizers. The Electronic bank transfer details are as under:

Track	AME-2020	AISCT-2020	ACFBT-2020
Account Name	AME2020	AISCT2020	ACFBT2020
Account Number			
Bank	Central Bank of India, SLIET, Longowal, Sangrur, Punjab-149106. INDIA		
Swift Code	CBININBB		
IFCS code	CBIN0283105		
MICR Code	148016907		
Branch Code	83105		

For any query, please contact

Track	Contact Person	Email	Contact no.
AME-2020	Dr. Jaspal Singh Gill	ame2020@sliet.ac.in	+919417270370, 1672253306(O)
	Dr. Kulwant Singh		+919815651868, 1672253286 (O)
AISCT-2020	Dr. Birmohan Singh	aisct2020@sliet.ac.in	+919815980400, 1672253208(O)
	Dr. Ashwani Kumar Aggarwal		+919530530190, 1672253347(O)
ACFBT-2020	Dr. Vikas Nanda	acfbt2020@sliet.ac.in	+91 9815980054, 1672253254(O)
	Dr. Gulshan Kr. Jawa		+919463167202, 1672253322(O)

Sponsorship and Exhibition

Exhibition	Sponsorship
SLIETICON-2020 invites Govt. Departments, R & D organizations, Academic Institutes, start-ups, industries, Publishers etc. researchers to <i>sponsor or cosponsor the event</i> and showcase their latest industrial products in the relevant areas during the conference.	Platinum : Rs. 5,00,000
	Gold : Rs. 300,000
	Silver : Rs. 1,00,000
	Bronze : Rs. 50,000
	Partner (no limit) : Rs. 50,000

SLIET-I-CON - 2020

(www.sljet-i-con.org)

A Multi-Track International Conference (Feb. 26 - 29, 2020)

Under TEQIP - III (Twinning Program)

- ✦ **Track I:** International conference on "Advances in Mechanical Engineering (AME- 2020)"
- ✦ **Track II:** International Conference on "Advances in Soft Computing Techniques (AISCT-2020)"
- ✦ **Track III:** International Conference on "Advances in Chemical, Food and Bioprocess Technology (ACFBT-2020)"



Organized by

संत लौंगोवाल अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
**SANT LONGOWAL INSTITUTE OF
 ENGINEERING AND TECHNOLOGY**
 (भारत सरकार, मा. स. वि. म. के अधीन, सम विश्वविद्यालय)
 (Deemed to be University under MHRD, Government of India)
 लौंगोवाल - १४८१०६, संगरूर (पंजाब) भारत
Longowal -148106, Sangrur (Punjab) India

in association with



राष्ट्रीय प्रौद्योगिकी संस्थान, उत्तराखंड- २४६१४४, भारत
National Institute of Technology, Uttarakhand- 246174, INDIA
 सैटेलाइट कैंपस-एमएनआईटी जयपुर
Satellite Campus-MNIT Jaipur

About SLIET-I-CON-2020

SLIET-I-CON-2020, a Multi-Track International Conference to be held during Feb.26-29, 2020 is a prestigious event organized by Sant Longowal Institute of Engineering and Technology (SLIET), Longowal with a motivation to provide an excellent international platform to encourage academic activities to help students as well as teachers to continuously develop their skills to meet the demands of the present society. SLIET-I-CON-2020 will bring together the, Academicians, Engineers, Technologists, Delegates from Industry, Researchers, budding Students and Scientists to discuss current trends and future developments in the field of Mechanical Engineering, Electronics and Communication Engineering, Food Engineering and Technology, Chemical Engineering, Computer Science and Engineering, and Electrical and Instrumentation Engineering. Three International Conferences under the umbrella of SLIET-I-CON-2020 will be organised. the Department of Mechanical Engineering is the organizer of International conference on “Advances in Mechanical Engineering (AME- 2020)” under Track-I. An International Conference on “Advances in Soft Computing Techniques (AISCT-2020)” (Track II) will be jointly organized by Department of Electrical and Instrumentation Engineering, Computer Science and Engineering, Electronics and Communication Engineering. Department of Chemical Engineering and Department of Food Engineering and Technology will jointly host the International Conference on “Advances in Chemical, Food and Bioprocess Technology (ACFBT-2020)” under Track III.

About SLIET

Sant Longowal Institute of Engineering and Technology (SLIET) is a centrally funded technical Institute (Deemed-to-be- University) which has been set up by MHRD, Government of India, with an aim to achieve technological excellence through innovation. It caters to the technical manpower requirements at various levels by adopting a new concept of modular system in imparting technical education with emphasis on practical training in industry. It offers the Integrated Certificate Diploma (ICD), B.E., M.Tech., M.Sc., MBA and Ph.D. in various disciplines of Science, Management, Engineering and Technology. SLIET shall strive to act as an international podium for the development and transfer of technical competence in academics through formal and non formal education, entrepreneurship and research to meet the changing needs of society. The institute has a sprawling area of 447 acres of land. The campus of the institute extends a beautiful and well developed lush green area with many topographically featured picturesque landscapes, numerous buildings of various nature and stature and metal road network. The campus presents a spectacle of harmony and natural ecosystem. The institute is situated at the outskirts of Longowal and is around 8 km from Sangrur-Barnala Highway. The Institute is connected by road with Sangrur (18 km), Barnala (25 km), Patiala (75 km), Ludhiana (100 km), Chandigarh (150 km) and Delhi (360 km). The nearest railway stations are Sangrur (18 km), Sunam (16 km) and Dhuri (32 km) and the nearest airport is Chandigarh (130 km).

Technical Sessions

Technical sessions will focus on the theme of the three International Conferences under the umbrella of SLIET-I-CON-2020 and the following broad themes will be covered with interaction through plenary sessions, invited lectures, paper presentations and poster sessions. There will be three best paper awards each in oral and poster presentations in each

session. Authors are invited to submit their original, unpublished and quality research papers in the areas (but not limited to) of new developments. The following topics, but not limited to are to be covered:

Track I: International conference on “Advances in Mechanical Engineering (AME- 2020)”

- Additive Manufacturing, Reverse Engineering
- CAD, FEM, CFD
- CAM, Mechatronics and robotics
- Agile Manufacturing
- Materials and Processing, Composites
- Joining Processes (Welding)
- Surface Engineering and Coatings
- Advance Casting and Forming
- Machining, Micro/Nano/Non-Conventional Machining
- Design for Manufacturing and Assembly
- Vibration and Condition monitoring
- Modelling, Simulation and optimization Algorithms
- Product Design and Development
- Green Manufacturing and Industry 4.0
- Structure Mechanics, Biomechanics, Nano Technology
- Human Factor Engineering
- Logistics and Supply Chain Management
- Operations Management, Technology Management
- TQM, Six-Sigma and Productivity Enhancement
- Facility Design, Material Management, Waste Management
- Reliability and Maintenance Engineering
- Sustainability in Manufacturing
- Applied Thermal Science
- Electric vehicles
- Non-Conventional Energy
- Environment Management, Energy auditing of Mechanical Systems
- Other Allied Topics

Track II: International Conference on “Advances in Soft Computing Techniques (AISCT-2020)”

- Evolutionary Computation
- Expert Systems
- Artificial Intelligence
- Machine Learning
- Pattern Recognition
- Convolutional Neural Networks
- Deep Learning
- Data Analytics
- Swarm Intelligence
- Fuzzy Systems
- Fuzzy Logic Systems
- Neural Networks
- Multi-Agent Systems
- Neural Genetic Systems
- Neural Fuzzy Systems
- Reinforcement Learning
- Statistical Data Analysis
- Complex Systems
- Hardware implementations of these soft computing techniques
- Applications of soft computing to testing and diagnostics of medical

data, business and financial systems, information systems, healthcare systems, intelligent systems, control systems, prediction and forecasting, robotics, reliability analysis, cost-benefit analysis, biomedical & biometric analysis, web and text mining, image and signal processing, grid computing, smart cities and scheduling, wireless sensor networks, bioinformatics, systems biology, solar energy, internet and wireless security, mobile computing, IoT, natural language processing, intelligent transportation etc.

Track III: International Conference on “Advances in Chemical, Food and Bioprocess Technology (ACFBT-2020)”

- Biomass conversion
- Energy and environment
- Engineering materials for chemical processes
- Innovations in unit operations and processes
- Chemical Reaction Engineering and Thermodynamic Processes
- Polymer processing and technology
- Polymer Reaction Engineering
- Paper and pulp Technology
- Process synthesis, design and development
- Chemical and Bio Separation technology
- Sustainable and clean process technology
- Water and wastewater management and treatment
- Advanced oxidation processes
- High pressure and high temperature process technology
- Photo- and Electrochemical Engineering
- Membrane Engineering
- Waste sludge treatment and disposal
- Particulate solids/solids processing
- Process Safety Management
- Transport phenomena
- Coal and natural Gas
- Petroleum Engineering
- Emerging food processing techniques
- Emerging techniques for food safety and quality.
- Innovations in food process engineering
- Innovative food product development
- New perspectives in food biotechnology and fermentation
- Novel insights in composition of foods
- Value addition of food industry byproducts
- Process Economics and Business Management
- Chemical and Food Engineering Education
- Process engineering computations and optimization
- Process modeling and simulation
- Chemical, Food and bioprocess instrumentation and control
- Bioprocess and Biosystems
- Bioprocess Integration and Intensification
- Bioresources Engineering and Technology
- Bioprocessing for Food Engineering
- Biofuels and bioenergy
- Biopharmaceuticals
- Biosensors and Biodevices
- Biochemical and bio-molecular engineering
- Bioengineering and biomedical engineering
- Biological treatment of petroleum refining effluent
- Agro and industrial bioprocessing