

First International Conference on Recent Innovations in Engineering and Technology (ICRIEAT-2016)

Organizer

**Aurora's Scientific,
Technological and Research Academy
Chandrayangutta, Hyderabad-05**

Venue & Date

**Hotel Katriya
Somajiguda, Hyderabad - 500082
22 & 23 December, 2016**

Conference

First International Conference on Recent Innovations in Engineering and Technology (ICRIEAT-2016) is being conducted by Aurora's Scientific, Technological and Research Academy, Hyderabad on 22 & 23 December, 2016. With the emerging technological advancements in the fields of Engineering and Technology, they have become more sophisticated and interdisciplinary-interacted. Hence, this International Conference is intended to cover a wide range of recent innovations that allows interested experts to share and discuss their latest researches, ideas and survey reports in the theoretical and practical areas regarding all aspects of Engineering and Technology. It also offers Technical talks by experts in the field. Authors from Academia and Industry are invited to present their papers dealing with state-of-the-art Research and future. Selected papers will be published in the Conference Proceedings (ISBN: 978-1-5396-2645-9) indexed in Google Scholar and Scopus.

Pre-Conference Workshops

The ICRIEAT 2016 Pre-Conference Workshops on "Nano Electronics" and "Internet of Things" are scheduled on 21st December 2016 in association with **IEEE - EDS Hyderabad Chapter**.

Speakers

Dr Vijay K Arora
Prof of Electrical Engg.
IEEE Distinguished Lecturer
Wilkes University
Wilkes - Barre, PA
USA

Dr San Murugesan
Prof of CSE
Editor in Chief-IEEE IT Professional
Western Sydney University
Sydney
Australia



Aurora

Aurora group was established in the year 1989 beginning with Aurora's Degree College. The name Aurora was derived from the Latin word "Aurora Borealis" the famous northern lights, meaning Sun God Apollo. The name has been chosen as it synthesizes the Indian and Western tradition of representing the sun as a symbol of knowledge and power. Education is a penance for knowledge and Aurora's treats it thus.

Today it has scaled up to be one of the prominent professional educational caterer in Hyderabad comprising of 5 Engineering colleges offering B.Tech and M.Tech programs, 6 Post Graduate colleges offering MBA and MCA programs, Degree college offering Under Graduate and Post Graduate programs in Arts, Commerce, Life Sciences and Physical Sciences, 2 Law colleges offering 3 year and 5 year LLB programs, 2 Architecture colleges offering Architecture and Planning programs, 2 Pharmacy colleges offering B.Pharmacy program, 3 Polytechnic colleges offering Diploma in Engineering programs and a prestigious Autonomous Business School offering Management Programs in International Business, Hospital Management, Rural Management along with General Marketing, HR and Finance specializations with 6000 students enrolling every year, having 18,000 students studying throughout all our campuses, being successful in graduating nearly 75000 Alumni who are spread across the world and 2000 employees continuously striving towards quality improvement in the field of Education.

Aurora's Scientific, Technological and Research Academy

The Academy was established in the year 2001. It is the largest of its kind in GHMC limits of Hyderabad to have an exclusive and sprawling campus of 25 acres. The campus is located at Chandrayangutta which is at a reachable radius of 20 Minute drive from any corner of Hyderabad city.

The Academy aims to offer quality engineering education laying emphasis on all round development of budding engineers. It first commenced with the departments of Computer Science and Engineering, Electronics and Communication Engineering and Information Technology with an intake of 60 in each to offer B.Tech Program.

Today the Academy has grown far folds offering 05 B.Tech programs, 13 M.Tech programs and MBA program with an annual intake of 1300 put together.

The basic philosophy of the institute can be summed up as "To be a Center of Learning, excelling in Academics, which imparts state of the art knowledge to its students, encourages staff to actively take up Research & Development activities and to be an agent of promotion of ethical values and thus serve the society".

Call for Papers

Original and unpublished high quality research papers are solicited from Academicians, Research Scholars, Corporate Executers, Industry personals and PG students on Recent Innovations in Engineering and Technology. The abstracts should not exceed 300 words. The topics include but are not limited to:

Civil Engineering

- Modern Trends in Civil Engineering
- Remote Sensing & GIS
- Construction Management
- Environmental Engineering
- Structural Engineering
- Geotechnical Engineering
- Water resource Engineering
- Transportation Engineering
- Surveying

Computer Science Engineering

- Software Engineering
- Computer Networks
- Algorithms and data structures
- Program semantics and verification
- Natural Language Processing
- Artificial Intelligence
- Data mining and warehousing
- Distributed systems
- Pattern Recognition

Electrical Engineering

- Power Systems and Energy Engineering
- Electric Drives and Applications
- Power Electronics and Industrial Applications
- Power Generation, Transmission and Distribution
- Smart Grids Technologies & Applications
- Renewable Power conversion Techniques
- Instrumentation and Control
- Power Quality improvement Techniques

Electronics and Communication Engineering

- Signal Processing
- Image and Video Processing
- Speech Processing
- Advanced VLSI Systems
- Embedded Systems
- Mobile and Optical Communications
- Wireless Mobile Communication
- Sensor Networks
- Nanotechnology

Mechanical Engineering

- Design and Manufacturing Engineering
- Materials Science and Engineering
- Mechatronics and Automation
- Industrial and Systems Engineering
- Textile and Leather Technology
- Computer Integrated Manufacturing
- Production Planning and Control
- Operations Research
- Total Quality Management
- Avionics

Registration Fee per Paper*

Category	Early bird registration on or before 30-11-2016	Regular registration on or before 15-12-2016
Academia/ Industry	Rs 5000/-	Rs 6000/-
Research Scholars	Rs 4000/-	Rs 5000/-
PG Students	Rs 3000/-	Rs 4000/-
Foreign Authors	\$ 100	\$ 125

*For 03 authors. Any additional author Rs 2000/- extra.

Registration Fee Includes

Entry into Technical Sessions, Conference Kit, Conference Proceedings, Participation Certificate, Refreshments, Tea/ Coffee and Lunch during the days of the Conference.

Important Dates

Submission of Full Length Paper : 05th Dec 2016
Intimation of acceptance of Paper : 12th Dec 2016
Last date for Registration : 15th Dec 2016

Screening of Papers

All submissions to the conference will go through blind review process by at least two independent reviewers.

Best Paper Award

One Best Paper will be selected from each oral session based on the score of the Technical Session Chair. The Certificate for Best Paper will be awarded during the valedictory session.

Guidelines to Authors

1. The full text of the paper is to be limited to a maximum of 6-A4 size papers with double column including tables and figures typed in Times New Roman and single spacing. Paper must be typed using MS-Word (.doc or .docx format) only. Key words to be indexed below the abstract. The other requirements are:

Top/bottom/left/right margin : 25mm.
Abstract : 200-300 words
Title : 16 point bold capital
Affiliation : 12 point italics
Text : 10 point

2. The paper must include name, full contact address and email Id of the corresponding authors.

3. The paper template is available at www.icriat.com

4. Bank details for online transfer

Name of the Account : ASTRA ALUMNI
Name of the Bank : Andhra Bank
Branch : Shamsheergunj
Account Type : Current Account
Account Number : 053011100000292
RTGS/NEFT IFSC Code : ANDB0000530

5. The receipt / UTR no of the online transaction be e-mailed to icriat2016@gmail.com, along with the full length paper and the copy right transfer form for the confirmation of registration.

6. Extended papers will be published in Conference special edition by **International Interdisciplinary Research Journal** (www.oiirj.org, ISSN: 2249-9598) with 3.8 impact factor, indexed in Google Scholar & Scopus.

Accommodation

Exclusive Accommodation is arranged for the convenience of outstation delegates at our college Hostels located at a 30 minute drive from the conference venue. 30 rooms are reserved in each of our Ladies and Gents Hostel. Due to availability of limited rooms, accommodation is given on twin sharing basis with individual locker and study table. A nominal amount of Rs 1500/- for faculty and Rs 1200/- for PG students/ Research scholars is charged which is inclusive of breakfast, dinner and transportation from hostel to the conference venue for both the days. No additional amount is charged from the Delegates attending the Pre-Conference workshop.

Transportation

Travel arrangements for a hassle free itinerary are ensured from our travel desk. All delegates who seek hostel accommodation would be **picked up from Airport/ Railway station/ Bus stand**. Delegate itinerary form would be mailed upon receiving the accommodation request.

Confirmed List of Keynote Speakers



Dr Ashoka Chandra
Retd. Special Secretary
Government of India
Chairman, Research Council
CSIR-NISTADS, New Delhi



Dr Vijay K Arora
Professor of Electrical Engineering
IEEE- EDS Distinguished Lecturer
Wilkes University
Wilkes - Barre, PA
USA



Dr San Murugesan
Director
BRITE Professional Services
Editor in Chief - IEEE IT Professional
Editor - IEEE Computer
Western Sydney University, Australia



Dr Burhanuddin Mohd Aboobaider
Deputy Dean
Faculty of Information &
Communication Technology
Universiti of Teknikal Malaysia Melaka
Malaysia



Dr Said Younes
Assistant Dean
Department of Information Systems
University of Nizwa
Sultanate of Oman



Dr Prabir Chandra Basu
Consultant
Structural Engineering and
Nuclear Safety
Mumbai



Dr SS Murthy
Professor (Rtd) IIT Delhi
Formerly : Vice Chancellor
Central University of Karnataka &
Director - NIT Surathkal
Distinguished Professor
CPRI, Bangalore



Dr P V Ananda Mohan
Technology Advisor
CDAC
Bangalore



Dr Manish Gupta
Director
Xerox Research Center India
Bangalore



Dr Sounak Chowdary
Professor of Mechanical Engineering
IIT Kanpur



Dr P Dinakar
Professor of Civil Engineering
IIT Bhubaneshwar



Dr Amit Acharya
Professor of Electrical Engineering
IIT Hyderabad



Dr R Pradeep Kumar
Professor & HoD
Earthquake Engineering Research Center
IIIT Hyderabad



Dr SL Soni
Professor of Mechanical Engineering
Malaviya National Institute of Technology
Jaipur



Dr Sandeep Grover
Professor of Mechanical Engineering
YMCA University of Science & Technology
Faridabad
Haryana



Dr S Arumugam
CEO
Nandha Educational Institutions
ERODE
Tamilnadu

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- Dr PG Benakop, Principal, Indur College of Engineering, Siddipet
- Dr. MZ Kurian, Registrar, Sri Siddhartha Academy of Higher Education, Tumkur, Karnataka
- Dr. Mohd Azizuddin, Professor Dpt of Mech Engg, Deccan College of Engineering and Technology, Hyderabad



Venue

Hotel Katriya is one of the luxurious 4 star hotel located in the prominent centre of the Hyderabad City. A plush ambience, elegantly designed spaces, with every comfort at your fingertips will make your stay at Hyderabad a memorable one.

Katriya Hotel & Towers

Raj Bhavan Road, Somajiguda, Hyderabad.

Telangana State - 500082

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Pre-Conference Workshop

The ICRIEAT 2016 Pre-Conference Workshop on "Nano Electronics" and "Internet of Things (IoT) and Its Applications" for IEEE Students/ Research Scholars / Faculty is schedule on 21st December 2016 in association with IEEE - EDS Hyderabad Chapter. The primary goal of this Pre-Conference Workshop is to provide a fundamental knowledge on these emerging areas. Identifying research opportunities, cross disciplinary collaboration among projects addressing their applications at National and International level is the key aspect.

Registration Fee

Rs. 750 - Student IEEE Members

Rs. 1000 - IEEE Members

Rs. 1500 - Non IEEE Members

1. Registration fee includes lunch, tea, snacks and certificate of participation.
2. Registration is open to students and faculty of all branches of Engineering.
3. Limited seats only.
4. Interested participants can give their details through e-mail to anendhar@gmail.com latest by 15th December 2016.
5. Registration fee to be paid at the registration desk on the spot between 09:30am to 10:00am.
6. For any further details please contact:

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PLACES TO VISIT IN HYDERABAD

The city of smiles, of lights, of a thousand faces, endearingly called the Pearl City, Hyderabad offers a variety of tourist attractions ranging from Heritage monuments, Lakes and Parks, Gardens and Resorts, Museums to delectable cuisine and a delightful shopping experience. To the traveller, Hyderabad offers a fascinating panorama of the past, with a richly mixed cultural and historical tradition spanning 400 colourful years. Some of the tourist attractions include the following:

Charminar : The Charminar is as much the signature of Hyderabad as the Taj Mahal is of Agra or the Eiffel Tower is of Paris. Mohammed Quli Qutb Shah, the founder of Hyderabad, built Charminar in 1591 at the centre of the original city layout. It is said to be built as a charm to ward off a deadly epidemic raging at that time. Four graceful minarets soar to a height of 48.7 m above the ground. Charminar has 45 prayer spaces and a mosque in it. Visitors can view the architectural splendour inside the Charminar. The monument is illuminated in the evenings.



Mecca Masjid: A two hundred yards southwest of the Charminar is the Mecca Masjid, so named because the bricks were brought from Mecca to build the central arch. The Qutb Shahis never finished the building of the mosque, which was completed by Aurangzeb in 1694.



Laad Bazaar: This is famous, colourful shopping centre of the old city, tucked away in one of the streets leading off from Charminar. Bridal wear, Pearls and the traditional Hyderabad glass and stone studded bangles are sold here.



Golconda Fort: Golconda is one of the famous forts of India. The name originates from the Telugu words "Golla Konda" meaning "Shepherd's Hill". The origins of the fort can be traced back to the Yadava dynasty of Deogiri and the Kakatiyas of Warangal. Golconda was originally a mud fort, which passed to the Bahmani dynasty and later to the Qutb Shahis, who held it from 1518 to 1687 A.D. The first three Qutb Shahi kings rebuilt Golconda, over a span of 62 years. The fort is famous for its acoustics, palaces, ingenious water supply system and the famous Fateh Rahben gun, one of the cannons used in the last siege of Golconda by Aurangzeb, to whom the fort ultimately fell.



Sound & Light Show at Golconda Fort: The glorious past of Golconda Fort is narrated effectively with matchless Sound and Light effects. The unique Sound & Light Show takes you right back in time, when Golconda was full of life, glory and grandeur.



Qutb Shahi Tombs: The tombs of the legendary Qutb Shahi kings lie about a kilometre away from Banjara Darwaza of the Golconda Fort. Planned and built by the Qutb Shahis themselves, these tombs are said to be the oldest historical monuments in Hyderabad. They form a large group and stand on a raised platform. The tombs are built in Persian, Pathan and Hindu architectural styles using grey granite, with stucco ornamentation, the only one of its kind in the world where an entire dynasty has been buried at one place.



Birla Mandir(Venkateswara Temple): This white marble temple of Lord Venkateshwara floats on the city skyline, on Kala Pahad. The idol in the temple is a replica of the one at Tirumala Tirupati.



Birla Planetarium : Birla Planetarium is India's most modern planetarium and first of its kind in the country. It is equipped with advanced technology from Japan and is built on Naubat Pahad adjacent to Kala Pahad. And the Science Museum stands tribute to the advancement achieved by Science and Technology.



Salar Jung Museum: This museum houses one of the biggest one-man collections of antiques of the world by Mir Yousuf Ali Khan, Salar Jung III. The objects d'art include Persian carpets, Moghal miniatures, Chinese porcelain, Japanese lacquerware, famous statues including the Veiled Rebecca and Marguerite and Mephistopheles, a superb collection of jade, daggers belonging to Queen Noor Jahan and the Emperors Jahangir and Shah Jahan, Aurangzeb's sword and many other fabulous items.



Telangana State Archaeological Museum : A visit to the Telangana State Archaeological Museum is a delight for art lovers. Located in the picturesque Public Gardens, the museum boasts of one of the richest repositories of antiques and art objects in the country. Built in 1920 by the Nizam VII, the museum building itself is a fine example of Indo-Saracenic architecture. The museum contains a Buddhist gallery, Brahmanical & Jain gallery, Bronze gallery, Arms & Armour gallery, Numismatics gallery, Ajanta gallery and more. Adjacent to the State Museum is the Contemporary Art Museum.



Public Gardens : Hyderabad has several beautiful gardens, one of the most popular being the Public Gardens, which also encloses the State Legislature, State Archaeological Museum, Jubilee Hall, Jawahar Bal Bhavan and Telugu Lalita Kala Thoranam, an open-air theatre.



Nehru Zoological Park : Spanning 300 lush green acres, the Nehru Zoological Park is a must for nature lovers. It has over 250 species of animals and birds, most of which are kept in conditions as close to their natural habitats as possible. This is the first zoo to create moated enclosures for animals. The Lion Safari Park, Natural History Museum and Children's Train are the added attractions.



Shilparamam (The Arts & Crafts Village) : Another attraction at Madhapur besides Hi-tec city in Hyderabad is the 30-acre village, which showcases arts and crafts of the country. India is an ocean of various arts and crafts but the talent of most of the artisans and artists goes unrecognized. To encourage them and give the necessary boost to their art, the crafts village hosts annual bazaars, where artists and artisans from all over the country exhibit their talent.



Hitech City : One of the modern monuments of trade and technology, it embodies the newfound attitude of Hyderabad and today finds a place of pride. Situated on the outskirts of the city, it is the nucleus of Cyberabad, the IT destination in this part of the world. Cyber Towers is the main building here.



Hussainsagar Lake: Excavated in 1562 A.D. by Hussain Shah Wali during the time of Ibrahim Quli Qutb Shah, the lake has a promenade that is a busy thoroughfare today. Boating and water sports are a regular feature in the Hussainsagar. One of the World's tallest monolithic statues of the Buddha stands on the 'Rock of Gibraltar', in the middle of the lake. Added to all these, it has additional boating facilities like speed boats, motor boats, 48 seater launch etc. Starlit dinner on-board and private parties also can be arranged on the Launch. Surroundings of Hussainsagar Lake provide marvellous entertainment options like NTR Gardens, Necklace Road, Tank Bund, Prasads Multiplex, Lumbini Park, Sanjeevaiah Park etc.



Hyderabad Botanical Gardens: The first Botanical Gardens in Telangana State, spread over 120 acres. Already open to public is the first phase, with the completion of some sections. The sections include medicinal plants, timber trees, fruit trees, ornamental plants, aquatic plants and bamboos. The Park has been designed to have large water bodies, Rolling Meadows, natural forests, rich grasslands and exquisite rock formations.



Ramoji Film City: The Ramoji Film City in India is located in Hyderabad. At 1500 acres, it is the largest integrated film city in the world. It is also a popular tourism and recreation centre, containing natural and artificial attractions including an amusement park. Certified by the Guinness World Records as the world's largest Filmstudio complex, at Ramoji Film City, a filmmaker can walk with a script and walk out with film.



Chilkur Balaji Temple : The Balaji Temple is located at Chilkur in the Hyderabad district. It is 33 Kms away from Mehdiapatnam. Approximately 75,000 to 1,00,000 devotees visit in a week. Generally temple gets heavy rush on Saturdays and Sundays. Set in sylvan surroundings, the temple attracts thousands of pilgrims every year and is an ideal place for sequestered retreat and meditation.



The Nizam's Silver Jubilee Museum : The stately Purani Haveli, the palace acquired around the year 1750 by the second Nizam, is now converted into a museum with a fascinating collection. The museum exhibits the gifts and mementos presented to the last Nizam on the occasion of the silver jubilee celebrations in 1937. A 1930 Rolls Royce, Packard and a Mark V Jaguar are among the vintage cars displayed. There is an interesting collection of models made in silver of all the prominent buildings of the city and citations in Urdu about H.E.H. Mir Osman Ali Khan, gold burnished wooden throne used for the silver jubilee celebrations, gold tiffin box inlaid with diamonds, and a gold model of Jubilee Pavilion.



Chow Mohalla Palace : Built in several phases by the Nizams between 1857-1869, this is now one of the heritage buildings. The complex comprises four palaces in Moghal and European styles, of which the main palace is double storeyed with the others being single-storeyed blocks.



KBR National Park: One of the largest parks within the city KBR National Park is a Southern tropical deciduous forest and the last vestigial representative of the endemic flora of Hyderabad region, with over 100 species of birds, 20 species of reptiles and 15 species of butterflies.



Mahavir Harina Vanasthali National Park: Located 15 Km. from Hyderabad, the park has more than 350 black bucks, 400 cheetals and a number of wild boars, small mammals, reptiles and over 100 species of birds.



Wonderla : India's No. 1 Amusement Park, Wonderla offers 43 world-class rides to unfold an all-new chapter of thrill. Wonderla Hyderabad offers the perfect package for all the age groups with its 25 land based rides and 18 water based attractions. Soak and splash in exhilarating water rides, feel the rush of adrenaline on high-thrill rides, and get pampered with the finest facilities in leisure for the whole family.

