

bitscan

Hyderabad Campus



Visitors



Padma Vibhushan Dr E Sreedharan



Prof Ravindranath Thampi, UCD, Dublin



Delegates from HongKong University of Science



Credit Sussie Guests



Delegates from Macquarie University

Academic Confluence of Ideas, Intellect and Information

National Symposium on Convergence of Chemistry & Materials (CCM-2017)

Department of Chemistry organized the "National Symposium on Convergence of Chemistry & Materials (CCM-2017)" during December 21-22, 2017 at BITS Hyderabad campus. The event focused on experiment, theory and computation along with recent technological advances in the field of Materials Chemistry. This symposium was successful in bringing scientists, researchers and industrial partners, working at the interface of Materials and Chemistry on the same platform. CCM-2017 acted as a perfect platform that promoted exchange of the latest and advanced research among specialists and scholars in the field of Chemistry and Materials.



Workshop on Petroleum Testing

Association of Chemical Engineers (ACE) organized a workshop on petroleum testing in October 2017.



BITURHEO-2017

The Civil Engineering Department conducted the Bitumen Rheology Workshop (**BITURHEO 2017**), on September 22, 2017.



It was jointly organized by the Civil Engineering Department, Civil Engineering Association and Anton Paar India. It was very useful for those who work in the domain of material science in general and bitumen in particular. The workshop saw enthusiastic participation from the students.

Beam It



“Beam It”, the headliner event of CEA, was arguably one of the most fiercely competed events of ATMOS 2017. The three-day competition saw a record participation of over 30 teams and generated much interest in the fest. The teams had to cast a certain concrete structure with the provided materials and subject it to load bearing tests. Special importance was given to the economic and judicious usage of materials.

STAAD.Pro Workshop

With the growing influence of engineering application software in civil engineering, proficiency in one of them is always an asset for any civil engineer. With this vision in mind, STAAD.Pro workshop was conducted on 27th and 28th. The two-day workshop aimed to give an insight into STAAD.Pro, modern software that aids structural analysis and designing.



Tall Buildings Workshop

Tall Buildings Workshop was conducted in association with RoboKart on 28th and 29th. This fun filled workshop not only presented an opportunity for budding civil engineers to design and analyse skyscrapers, but also provided a hands on experience in using ETABS, popular structural planning software.



Seminar by Prof. A.K. Sarkar

BITS Pilani Hyderabad Campus was graced by the presence of Prof. A.K. Sarkar, the Director of BITS Pilani, Pilani campus on November 14, 2017. He talked about various topics both academic and non-academic, during the one-hour interactive session.



He gave an insight into various opportunities and avenues in the field of transportation. He also talked about the deciding factors when it comes to choosing between higher studies abroad and in India.



Home Automation Workshop

Home Automation workshop was conducted by the PHoEnix association on September 14-15, 2017 as part of 'Engineer's Day'.



IHMTC-2017

Department of Mechanical Engineering, BITS Pilani, Hyderabad Campus (Host) and Department of Mechanical & Aerospace Engineering, IIT-Hyderabad (Co-host) jointly organized the IHMTC-2017 under the auspices of Indian Society of Heat and Mass Transfer (ISHMT). Also, this conference was Co-sponsored by American Society of Thermal and Fluids Engineers (ASTFE) and International Centre for Heat and Mass Transfer (ICHMT).



ISHMT-ASTFE Heat and Mass Transfer Conference brought together about 600-650 participants from academia, R&Ds and Industry. Also, there were about 40-50 delegates from reputed foreign universities. This conference provided an ideal platform to discuss the recent and emerging research trends in the areas of **Heat and Mass Transfer**, which has growing significance due to the challenges posed by energy needs, environmental issues, sustainability, bio-heat transfer, materials processing and other critical technologies.

3rd National Symposium on Current Trends in Pharmaceutical Sciences

The symposium was organized as a part of ATMOS-National Techno-Management festival of BITS Pilani Hyderabad campus, on October 28, 2017. The symposium welcomed notable research scientists from CSIR-IICT, Hyderabad and formulation scientists hailing from MNCs including Dr. Reddy's, Granules India and Mylan Pharmaceuticals Limited.



The following were the invited speakers at the Symposium:

Chittaranjan Patra, Ph.D. – Principal Scientist Associate Professor of Biological Sciences, Academy of Scientific & Innovative Research (AcSIR) Department of Chemical Biology, CSIR-Indian Institute of Chemical Technology

Rajkumar Banerjee, Ph.D. Principal Scientist Associate Professor, Academy of Scientific & Innovative Research (AcSIR) Chemical Biology Division, CSIR-Indian Institute of Chemical Technology

Dr Sachin Gahoi – General Manager at Mylan Laboratories Limited

Dr. R Manikandan - formulation scientist, Granules India

The symposium was aimed to cover promising approaches in drug discovery and delivery research to address the challenges of 21st century. Renowned scientists from

research institutes and industry shared their achievements and experiences in scientific sessions. Researchers from various academics and pharmaceutical organisations found this symposium offering a platform to interact with leaders of drug research and learn developments that make an impact. – Over 150 participants from pharmacy colleges across Hyderabad had participated. The symposium was followed by poster presentation by the students over various fields ranging from research in pharmacology in topics like cancer, AIDS and pharmaceuticals such as advancement in modern drug delivery systems, with a total of 45 posters being presented.

Workshop on Molecular Drug Design



Presentation and Hands-on training on Computational Methods In DrugDiscovery

On October 9, 2017 a one-day workshop was organised with the aim to give an introduction to the use of computers for protein-based and small molecule drug design. The following areas were covered:

- Small molecular modelling and simulations
- Macromolecular modelling and simulations
- Lead discovery
- Lead optimization
- Visualization and automation:

After the presentation, the participants were provided hands-on experience in structured-based drug design and ligand-based drug design. In this model, students were taught molecular docking and analysis of how drug interacts at the receptor level in our body. These modules were taught by Mr. Ravikumar Muttineni, who is the developer of the Schrodinger software which is used worldwide for studies on molecular drug design.

R-programming workshop

3-day R-programming workshop was conducted as part of pre ATMOS event. A total of 134 members participated in it.

International Visits by Faculty

- Prof. I Sreedhar was invited to ACBES-2017 Conference at Dubai, UAE, for a keynote speech on Kinetics and Engineering of High Temperature Carbon Capture using Coal flash Doped Sorbents on October 18, 2017.
- Dr Purnima presented a paper on Effect of Treatment of Fly Ash on Mechanical Properties of Polypropylene at ICAFM 2017, conference conducted in LOS Angeles, USA.
- Guha Ray, A., Kiranmayi CVSP and Rudraraju, S. (2017) 'Reliability Based Performance Evaluation of Stone Column Improved Soft Ground', ICGEG 2017: 19th International Conference on Geotechnical Engineering and Geomechanics, Rome, Italy, September 18-19, 2017, Vol. 11 No. 9, pg. 699 - 703.
- Dr Barsha Mitra presented a paper on 'A Comparative Study of Margin Noise Removal Algorithms on MarNR: A Margin Noise Dataset of Document Images' in the 14th IAPR International Conference on Document Analysis and Recognition (ICDAR 2017) conducted on November 9-15, 2017 in Kyoto, Japan.
- Prof. B. Mishra presented a paper on 'Cosmological Model with Dark Energy Anisotropy' in the conference conducted at University of Western Australia, Perth, Australia on November 27-30, 2017.
- Dr. Manish Kumar presented a paper on 'An Optimal Method in Image Encryption' in the conference conducted at University of Central Florida, USA, September 23-24, 2017.
- Dr. Sumit Kumar Vishwakarma invited to present a paper on 'On Love Frequency Under the Influence of Shear Moduli, Initial Stress and Density of Orthotropic Half Space' in the conference conducted at Friedrich-Alexander University, Germany on September 11-14, 2017.
- Prof K. Naga Mohan: Orlando, Florida, USA (October, 2017) to attend the American Society of Human Genetics Annual Meeting.
- Prof P. Sankar Ganesh: Addis Ababa, Ethiopia (September 2017) to deliver an invited lecture at Center for Environmental Science (CES), College of Natural Sciences of Addis Ababa University, Ethiopia.
- Prof. K. S. Raju, Member, Program Committee, The Fifth International Conference on Mining Intelligence and Knowledge Exploration (MIKE 2017), Institute for Development and Research in Banking Technology (IDRBT), Hyderabad, December 13-15, 2017.
- Prof. K. S. Raju, Member, Organizing Committee, Workshop on Bitumen Rheology-2017 (BITURHEO-2017), Department of Civil Engineering, BITS Pilani Hyderabad Campus, Hyderabad, September 22, 2017.
- Prof. K. S. Raju, Member, Scientific and Advisory Committee, National Conference on Sustainable Water and Environmental Management (SWEM-17), Centre for Water Resources, Jawaharlal Nehru Technological University, Hyderabad, December 21-23, 2017.
- Prof. K. S. Raju, Member, Scientific Committee, SWAT 2018: International Workshops and Conference, Indian Institute of Technology, Madras, Chennai, India, January 8-12, 2018. ([Home Page of the Conference](#)).
- Prof. K. S. Raju, Member, Technical Committee, International Conference on Sports Engineering (ICSE-2017), Birla Institute of Technology and Science Pilani, Pilani Campus, October 23-25, 2017 (Venue: Birla Auditorium, Jaipur).
- Dr. Aruna Malapati was awarded 'Prof. Indira Parikh 50 Women in Education Leaders' citation at 6th World Education Congress on November 23, 2017.
- Prof. Chittaranjan Hota has been elevated to the grade of Senior Member IEEE in August 2017.
- R. Parameshwaran has been selected as Editorial Board Member in International Journal of Hydromechanics, 2017.
- Prof. Kannan Ramaswamy and Prof. Aravinda Raghavan have been selected by IISER-Pune to train STEM teachers in India on Research-based Pedagogical Tools as part of Newton-Bhabha programme sponsored by DBT, MHRD, IISER-Pune, and British Council.
- Dr. Santosh Mahapatra was awarded Trinity College London Language Examination Fellowship for IATEFL 2018.
- Dr. Trinath Jamma and Dr Vivek Sharma were awarded OPERA Award (August 2017).
- Prof. K. Naga Mohan was award DST travel award (October 2017).
- Dr. Ruchi Jain Dey received Ramalingaswami Fellowship (November 2017).
- Dr. Giresha T. Mohannath received Ramalingaswami Fellowship (November 2017).

Accolades

Faculty Awards

- Prof. K. S. Raju, Guest Editor, Special Issue on 'Evolutionary Algorithms in Water Resources Engineering', ISH Journal of Hydraulic Engineering, Taylor & Francis.

Student Awards

- S. Srinivas Rao, A. Suresh and K.V.G. Chandra Sekhar, Design and synthesis of 1,2,3-triazolyl 9H-fluorenone analogues as anti-tubercular agents, National Symposium on Emerging Trends and Innovations in Pharmaceutical Science (ETIPS-2017) in Chemistry, organized by JNTU Hyderabad, October 12-13, 2017 (Oral Presentation) (Awarded as best oral presentation).
- Sanket Mishra, a research scholar from the department of Computer Science received TCS PhD fellowship for four years July 2016-June 2020. He works in the area of Internet of Things.
- Gourish Goudar and Dr. Suvadip Batabyal won Best Paper award in PhD Forum in 11th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2017).
- Swati Alok got the best paper award for her paper 'Consumer perceptions towards frozen foods: A study of Hyderabad-Secunderabad twin cities', presented in National conference sponsored by ICCSR in IPE on: Modern Retailing – Social & Economic Perspectives, January 30-31, 2017.

Publishings

- Rishi Kumar, Housing, Water and Related Amenities in Telangana, Chapter 8, in Telangana Social Development Report, 2017 (ed: Kalpana Kannabiran, J. Jayaranjan and PadminiSwaminathan), Council for Social Development, Hyderabad, 2017.
- Sanket Goel, Microfluidic microbial fuel cell: on-chip automated & robust method to generate energy (book chapter) in the book Microbial fuel cell: A bioelectrochemical system that converts waste to watts, Springer, Germany.
- Dr. Lavanya Suresh, Decentralized and Effective Forest Resource Governance in India, South Asia Research, 2017.
- Dr. Lavanya, *et. al.*, Decentralized Democracy: Gandhi's Vision and Indian Reality, Routledge, New York.

Joining Hands (MoU)

- Collaboration of Dr. Debashree Bandyopadhyay with Marcin I. Apostol, ADRx. Inc, California, 91360, USA
- Initiated MoU with Center for Environmental Science (CES), College of Natural Sciences of Addis Ababa University, Ethiopia, for student and faculty exchange.

- Dr. Gireesha T. Mohannath is establishing Collaboration with Dr. Sarat Chandra Janga, Assistant Professor, affiliated with School of Informatics and Computing, Indiana University & Purdue University Indianapolis (IUPUI), Department of Medical & Molecular Genetics, Center for Computational Biology & Bioinformatics, Division of Gastroenterology/Hepatology, Department of Medicine, Indiana University School of Medicine The objective is to analyze human genomes and RNA sequencing data to understand patterns and mechanisms of 45S rRNA gene regulation and rDNA genome instability in healthy and cancerous tissues.

Distinguished Visits

- Prof P Sreenivasa Kumar, IIT Madras, Professor in CSIS Department had a meeting with faculty Computer Science department on July 29, 2017.
- Dr Harsha Vardhan Simhadri, Researcher at Microsoft Research India, Bangalore discussed his research work and shared opportunities at MSR with undergraduate students and faculty of Computer Science on August 21, 2017.
- Dr Amitabh Mohanty (Senior Research Manager) and Dr. Krupa Deshmukh (Group Leader) from Trait Discovery Dupont Knowledge Center had a meeting with faculty on July 24, 2017 and then a team of faculty from CSIS dept visited Dupont to understand their research problems.
- Prof RN Mohapatra, Professor, Department of Mathematics, University of Central Florida, Orlando, FL 32816, USA visited the campus on February 2, 2017.

Alumni Achievements

- Mr. P. Vasihak (2012B5PS399H) was awarded Shyama Prasad Mukherjee Fellowship by Council of Scientific and industrial research (CSIR) based on his excellent performance in the CSIR-UGC JRF-NET Exam conducted in December 2016. He is currently pursuing his Ph.D in Inter-University Centre for Astronomy and Astrophysics (IUCAA) in Pune.

Patents

- S. Dinda, P. K. Chinthala, A. Gohel, A. Yadav, S. Mandal, G. Ravichandran and A. K. Das, Process and composition of catalyst/additive for reducing fuel gas yield in fluid catalytic cracking (FCC) process. 2017, Pat. No: US 9783743B2.
- A. Guha Ray, A. Kar and S. Gupta have applied for a patent on the 'Treatment process for cellulose based geotextile and geotextile obtained therefrom' on September 18, 2017. The Indian Patent Application No. is 201711033016.

International Programmes and Collaboration Division (IPCD)

Visit of School of Engineering, The HongKong University of Science & Technology

On August 23, 2017, Prof Eric Zhang – Civil Infrastructural Engineering & Management (CIEM) Program Director at HKUST, School of Engineering; Ms. Fenny Wong – Asst. Director, External Development and Professional Programmes at HKUST – School of Engineering; Ms. Wendy Yau from office of External Development and Professional Programmes at HKUST, School of Engineering; Mr. Rajiv Mathur – Director, Rank Global Services Company; and Ms. Ujala Chadha – Director, Rank Global Services Company, School of Engineering, The Hongkong University of Science & Technology visited Hyderabad campus to discuss the prominent Post graduate MSc. Programmes at HKUST.



Visit of Macquarie University

On November 14, 2017 Professor Barbara Messerle, Executive Dean, Faculty of Science and Engineering; Professor Tracy Rushmer – Dean Higher Degree Research, Faculty of Science and Engineering; Mr. Matthew Monkhouse – Director, Global Engagement & Business Development, Macquarie International; and Ms. Anuradha Gupta, Head-Partner Engagement Group, Macquarie University, visited Hyderabad campus to discuss research collaborations, to assess possibility of a joint application for grants in 2018, full-time PhD and internships.

Visit of University College of Dublin (UCD)

On December 2, 2017 Prof. Ravindranath Thampi, University College of Dublin (UCD), visited Hyderabad campus to explore the possibilities of submitting a joint Horizon 2020 Marie-Curie proposal in 2018.



MSAM



Workshop on 'Multiscale Simulation of Advanced Materials'

2-Days workshop on Multiscale Simulation of Advanced Materials (MSAM 2017) was organized by EEE department on December 18-19, 2017. The participants included undergraduate students, research scholars, and faculty from different institutes and research organizations. Facilitators of the workshop included scientists from NIST, Boulder, CO, USA (electronically) and CSIR-NAL, Bangalore,

India. The workshop included invited lectures, discussions, and tutorials. At the end of the workshop, there was one competition for participants based on all the tutorial sessions. The competition was sponsored by Springer who has provided 3 springer e-coupons (\$500 for 1st, \$300 for 2nd and \$200 for 3rd) for the winners of the competition.



Distinguished Lecture

by Padma Vibhushan Dr. E Sreedharan

Jointly organized by the Civil Engineering Department and the Civil Engineering Association, this event was definitely the crowd puller. Held in the auditorium on October 27, 2017, the event witnessed immense participation from both the students and the teaching faculty. Dr. E Sreedharan, one of the best Civil Engineers in the country, spoke about the challenges he faced in his six-decade long Engineering career. He narrated how he successfully completed the construction of Konkan Railway, one of the most daring Civil Engineering projects taken up in the country. Delhi Metro, the state of the art metro rail system was designed and constructed under his leadership and earned him the title 'The Metro Man'.



Dr. E Sreedharan also stressed the fact that having moral values is as important as technical knowledge for an Engineer. He listed punctuality, integrity, professional competence and social responsibility as the qualities expected from a good Engineer. After his talk, he happily entertained questions from the audience. His dynamic personality despite his age proved to be a source of inspiration for future Engineers.

Off-campus Programmes and Industry Engagement

BITS Pilani Work Integrated Learning Programmes (WILP) Alumnus Contributes A MEMS Cleanroom at the Hyderabad Campus

In September 2017, at BITS Pilani, Hyderabad campus a state-of-art micro-electro mechanical systems (mems) cleanroom, which is a joint contribution of the Institute, Hemair Systems and Department of Science and Technology, government of India was inaugurated by Prof. Sauvik Bhattacharya, Vice-chancellor and Prof. G. Sundar, Director, Hyderabad campus and Industry Engagement & Off-campus Programmes. The micro-fabrication equipment, including a thermal evaporation metal coating machine, a wet-bench, a UV-VIS, a probe station, a 4-chamber furnace and spin coater, of this MEMS cleanroom were contributed by the joint effort of DST and BITS Pilani as part of the MOU to setup at the Technology Business Incubation Center (TBI) to promote entrepreneurship and product-oriented research among the campus community, especially the students. The cleanroom design, construction of structure including materials, cleanliness machinery and sensors, maintenance accessories and operational know-how have

been provided, as part of an MOU for joint research and academic collaboration with the Institute, by BITS Pilani Alumnus, Mr. Vutla Srinivasa Rao's company, Hemair Systems, which a forty-year old global company engaged in providing MEMS and Biotechnology cleanroom solutions and radar cooling systems, whose headquarters is located in IDA Bollaram, Hyderabad. Mr. Vutla Srinivasa Rao is a BS (Engineering Technology) and MS (Manufacturing Management) alumnus of BITS Pilani. He is also currently pursuing off-campus PhD from the Institute in the area of sustainable design of cleanrooms for MEMS and micro-fabrication. Speaking on his contribution, Mr. Vutla Srinivasa Rao said that studying at BITS Pilani gave him a fillip in engineering professionalism, broader outlook of technologies and pride of belongingness to the great Institute, BITS Pilani.

The MEMS cleanroom with the existing equipment can support microfabrication of basic sensors and actuators completely. The MEMS facility started accepting project proposals from students and faculty and gearing up to becoming one of the busiest laboratories in the campus.



Microfabrication room (ISO-6)



Yellow room for lithography (ISO-5)



Cleanliness providing machinery



air shower



Probe station

Industry Partnership in Course Offering

A Skills Gap Analysis that was conducted as a PS-II initiative indicated that the students interested in working in the area of Investment Banking need to be more equipped with skills related to Risk Analytics and Management to meet industry requirements. In response, a course on Financial Risk Analysis and Management was developed and in consultation with leading investment banks in India keeping in mind Industry requirements. Credit Suisse, which is already an existing PS-II organization agreed to collaborate with BITS Pilani in offering this course. An agreement in this regard was signed by Ms. Meenakshi K.S., Global Head of Business Delivery. This course was offered in Sem I from the Hyderabad campus via Telepresence Classroom and attended by students in Hyderabad and Pilani campuses. In Sem II, this course is being offered again, and this time students from Goa campus are also taking it.

Convocation '17



The Campus held the convocation ceremony for its graduating students of 2017 batch on August 6, 2017. Dr. Rajendra Singh, the renowned 'Waterman of India', a winner of the 'Stockholm Water Prize' and founder of

'Tarun Bharat Singh' graced the occasion as the Chief Guest. He was joined by Prof. Souvik Bhattacharyya, Vice-Chancellor, Prof. G Sundar, Director – Hyderabad campus along with the Directors of other campuses of BITS Pilani,





senate members, faculty, and staff. The state-of-the art auditorium was filled with excitement and enthusiasm of the graduating students, their parents, faculty and staff.

This year, 656 graduating students of First Degree, 68 of Higher Degree and 20 Ph.D. Scholars were awarded degrees on the occasion. Adithya Murali, Devendra Singh Shekhawat and Kinjal Jain were awarded Gold, Silver and Bronze medals respectively for their outstanding academic achievements. In his convocation address, the Chief Guest, Dr. Rajendra Singh, congratulated the students and emphasised that knowledge gained in the classroom has to be augmented along with knowledge from nature as it is the seat of innovation.



Distinguished Lectures and Guest Lecture Series

Guest Lecture by	Organisation	Topic of the talk	Date
Dr D Srinivas	University of Idaho, Moscow	Design and Synthesis of Nitrogen and Oxygen Rich High Energy Density Materials Based on Fused and Strained Heterocyclic Systems	August 19, 2017
Dr Angshuman Roy Choudhury	IISER, Mohali	Polymorphs, Salts and Cocrystals of Drugs and Pharmaceuticals: Enhancement of Physicochemical Properties for Better Formulations	August 22, 2017
Dr Amit Vernekar	Department of Chemistry, Massachusetts Institute of Technology	Bioinorganic Chemistry Approach to Nanozymes and Plant Virus-based Technologies for Biomedical Applications	August 29, 2017
Dr Santanu Panda	UT Southwestern Medical Center, USA	Synthesis of N-Heterocycles via 1,2-Migration of Boron-ate Complexes	September 15, 2017
Padma Vibhushan Dr E Sreedharan	Chennai	Challenges of Engineering Career	October 27, 2017
Prof Shreepad Karmalkar	IIT Madras	The Role of Engineers in the Development of Society	September 15, 2017
Prof Linga Reddy & Prof Daniel Romero	University of Agder, Norway	WISENET/UiA (Norway) Research Activities and Self-powered IoT Devices	August 5, 2017
Prof Varun Jeoti	University Technology Petronas, Malaysia	Beyond Line of Sight Communication: Some Developments	August 24, 2017
Prof R Karmalkar	IIT Madras	An Interactive Session on the Recent Research Trends in Physics of Nanoelectronic Devices, Modeling and Fabrication.	September 15, 2017
Prof Aurobinda Routray	IIT Kharagpur	Portable Embedded System for Human Monitoring	November 10, 2017
Dr Prashant Shingare	Vertiv Co - formerly Emerson Network Power	Wind turbine control systems theory and practices	November 17, 2017
Prof Sanjeev Shroff	University of Pittsburgh		November 18, 2017
Prof Gulamabas G Sivjee	Space Physics Research Laboratory, Embry Riddle Aeronautical University, USA	Technological Challenges arising from Space Disturbances	November 22, 2017

Guest Lecture by	Organisation	Topic of the talk	Date
Dr Harish Barshilia & Dr Balamati Choudhury	CSIR-NAL, Bangalore, India	Multiscale Simulation of Advanced Materials	December 18-19, 2017
Prof V Raghavendra	IIT Tirupati	Peano Axioms	September 14, 2017
Mr Venu Palaparathi	Co-founder/founding trustee of BITSAA International Senior Vice President of Compliance, Regulatory and Government Affairs at Virtu Financial Inc.	Emerging Market Trends and Planning a Career in Finance	October 27, 2017
Prof Keisuke Hatada	University of Toyama, Japan	Full Potential Multiple Scattering Theory with space-filling scattering sites for X-ray absorption spectroscopy	August 23, 2017
Dr Mani Chandra	Quazar Technologies, New Delhi	The Electron Fluid in Solid State Devices	October 25, 2017
Padmasri Prof Mustansir Barma	TIFR Centre for Interdisciplinary Sciences, Hyderabad	Random Walks in Physics	November 2, 2017
Dr Vikram Saini	University of Alabama, USA	Know thy 'Gas'. A novel approach for understanding tuberculosis and disease management	September 1, 2017
Dr Sarat Chandra Janga	Indiana University & Purdue University, USA	Dissecting the post-transcriptional networks of RNA-binding proteins in the human genome using genomic and systems approaches	September 8, 2017
Dr. Adam Dasari, Associate Professor	West Virginia University	The Process of Americanization	October 31, 2017
Jessica Lynn (A post-op, Transgender Activist)	California, USA	Beyond Gender Binary: Her Transgender Journey	November 21, 2017

Invited Lectures by Faculty

Name of the Faculty Member	Title of the Lecture(L) / Workshop(W) and Occasion (if any)	Institution in which it was delivered / conducted	Date
Dr Ramesh Babu	Significance of Cellulose and Carbon Fiber Technologies	CVSR Engineering College, Hyderabad (autonomous)	September 15, 2017
Prof N Rajesh	Defluoridation of water – A Perspective	National conference on Sustainable Clean Water Technology at Crescent University, Chennai	September 21-22, 2017
Prof Manab Chakravarty	Organo-Phosphonates/Phosphates: Useful Precursors for Extensive – Conjugates And Polyaryalkanes	NMSTC, School of Chemistry, University of Hyderabad	October 13-14, 2017
Dr Sounak Roy	Structure Sensitivity in deNOx Catalysis	NFM 2017, BITS Pilani, Pilani Campus	November 16-18, 2017
Dr Subhas Ghosal	Reactive Scattering Dynamics of Ultracold Molecules	Asia Pacific Conference on Theoretical And Computational Chemistry, IIT Bombay	December 15-17, 2017
Prof KS Raju	Artificial Neural Networks in Water Resources Engineering and Career Guidance	Department of Civil Engineering, Nalla Narasimha Reddy School of Engineering, Hyderabad	August 30, 2017
	Optimization in Civil Engineering	Department of Civil Engineering, Vardhaman College of Engineering, Hyderabad	September 21, 2017
	Artificial Neural Networks in Civil Engineering and Optimization Techniques	Civil Engineering, Institute of Aeronautical Engineering, Hyderabad	November 1, 2017
	Urban Floods under Changing Climate - A Case Study of Hyderabad	Indian Institute of Technology, Hyderabad	November 15, 2017
	Best Management Practices in Urban Flood Scenario	Jawaharlal Nehru Technological University (JNTU), Hyderabad	November 18, 2017
Dr Anasua Guhary	Performance of Building Derived Materials for Subgrade Stabilization	Organized by Indian Geotechnical Society, Hyderabad Chapter, at JNTU Hyderabad	October 14, 2017
	Evaluating the Performance of Building Derived Materials for Sustainable Environment	Organized by Greater Hyderabad Municipal Corporation (GHMC) along with Building Materials and Technology Promotion Council (BMTPC), Ministry of Housing and Urban Affairs, Government of India, at GHMC Hyderabad	November 8, 2017
Prof Sridhar Raju	Training L&T Field Engineers on the topic 'Flexible Pavement Construction Techniques'	Gulbarga, Bijapur, Homnabad Road	September 19, 2017
	Technical Competency Building Program for our Graduate Engineer Trainees (GETs)	L&T engineers at Mumbai	November 20-21, 2017
	Design of Flexible and Rigid Pavement Including New Materials and Technologies Andpreparation of DPRs (Cost Estimates) for Rural Roads	Prajna Bhavan, Agartala, Tripura	November 24-25, 2017
Dr Bahurudeen	Characterization of Supplementary Cementitious Materials: Indian and International Perspectives	Aditya Birla Science and Technology (ABSTCPL) R&D Centre, Mumbai	November, 2017
	Outcome Based Education and Competitive Exam Preparation in Civil Engineering	Builder Engineering College, Erode	July, 2017
Prof P N Rao	Research Trends in Concrete Technology	Emerging Concepts in Civil engineering Fields"- EC2EF-2017, organized by CMR college of Engineering & Technology, Medchal, Hyderabad	December 15, 2017
Dr G Geethakumari	Cloud Based Malware Mitigation Techniques for Securing Internet of Things Environment	11 th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS) 2017, Odisha, India	December 17, 2017

Name of the Faculty Member	Title of the Lecture(L) / Workshop(W) and Occasion (if any)	Institution in which it was delivered / conducted	Date
Dr Suvadip Batabyal	Mobility Models and Impact of Mobility on Dynamic Networks	11 th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS) 2017, at C.V. Raman College of Engineering, Odisha, India.	December 17, 2017
Dr. Subhrakanta Panda	Software Validation and Change Control	Guest Lecture in CEP Course on Checkout System for Strategic Missile organized by Directorate of SINT-Checkout, ASL, DRDO, Hyderabad	December 13, 2017
	Data Analysis and Statistics for Research Practices	1 st International Conference on Stress Free Dentistry organized by IDA Millenium City Branch at Bangkok, Thailand.	December 4, 2017
Prof Chittaranjan Hota	Future of Cyber Security	Cyber Security Conclave 3.0, Organized by Society for Cyberabad Security Council (SCSC), Cyberabad Police Commissionerate, Hyderabad.	October 23, 2017
Dr Nagaraju Thota	Financial Derivatives	Madanapalle Institute of Technology & Science" Madanapalle	December 19, 2017
Dr Runa Kumari	Latest Research & Applications in FRACTAL Antennas	Military College of Electronics and Mechanical Engineering (MCEME), Secunderabad	August 17
Prof Sanket Goel	Microfluidic / Lab-on-a-chip Devices for Biomedical and Energy Applications	Biotechnology Conference, Keynote Lecture, PJTSA University, Hyderabad	October 27, 2017
	A Guidebook for Young Researcher: Be an Ethical Researcher	BITS-Pilani, Hyderabad Campus; Phoenix Students Group	September 12, 2017
	Invited Talk IC-MEET 2017	BVRIT, Hyderabad	September 10, 2017
	Special Guest Lecture	BITS-Pilani, Hyderabad Campus; Phoenix Students Group	September 12, 2017
	Biotechnology Conference, Keynote Lecture	PJTSA University, Hyderabad	September 12, 2017
Dr Alivelu Manga Parimi	Application of FACTS in Power Systems	Narayanamma Engineering College, Hyderabad	March 17, 2017
Prof B Mishra	Cosmological Model, Dark Energy, Anisotropy	Berhampur University, Odisha	December 3, 2017
Prof PK Sahoo	Wormhole Geometry in Modified Gravity	Department of Mathematics, Sardar Patel University, Gujarat	November 28-29, 2017
Dr TSL Radhika	Applications of Mathematics in Veda 6.0	BITS Pilani - Hyderabad	September 10, 2017
Dr N Kishore Kumar	Applications of Linear Algebra	Geethanjali College of Engineering, Hyderabad	November, 2017
	Spectral Element Methods for Elliptic Problems in International Conference on Nonlinear Differential Equations: Theory, Modeling and Computations	SRM University, Chennai	December 8-9, 2017
Dr Anil N	A Robust Adjoint Approach for Optimal Flow Control in International Conference on Nonlinear Differential Equations: Theory, Modeling and Computations	SRM University, Chennai	December 8-9, 2017
Dr Kurra Suresh	Applications of CAE in Manufacturing	Defence Electronics Research Laboratory (DLRL) - DRDO, Hyderabad	October 12, 2017
	Advances In Forming and Micro Forming	GRIET Hyderabad	
Dr Sabareesh G R	Machinery Condition Monitoring	Geethanjali College of Engineering, Hyderabad	August 17, 2017
Dr Arshad Javed	Kinematic and Dynamic Modelling of Industrial Manipulator	Two Week AICTE sponsored Faculty Development Programme on 'Recent Advances in Design and Development of Mechatronics and Robotic Systems', at Mahatma Gandhi Institute of Technology, Hyderabad	December 4-16, 2017
	Mechatronics and Industrial Automation	NSAKCET, New Malakpet, Hyderabad	
Prof M Srinivas	Hybrid Electric Vehicles: Conceptualization to Commercialization	All India Seminar on 'Fuel Cells and Hybrid Vehicle Technology", conducted by The Institution of Engineers (India), Telangana State Center	August 18-19, 2017

Sponsored Research Projects

S. No.	Title	PI Name	Dept	Amount	Funding Agency Name	Sanction Date
1	Implementation of Digital Beam forming for Radar	Dr S K Sahoo	EEE	332760	HBL	September 13, 2017
2	Strategies against antibiotic resistance in Mycobacterium tuberculosis and ESKAPE pathogens; new drugs and new targets	Prof D Sriram	Pharmacy	6700068	DBT Indo Sweden-3	November 15, 2017
3	Development and characterization of a topical formulations	Dr Vamsi Krishna Venuganti	Pharmacy	979400	ISSAR-2	May 1, 2017
4	Comparison of Phenolic Resin from two sources for their properties	Dr Karthik Chetan V	Chemical Engineering	981540	DRDO-cars	December 4, 2017
5	Efficacy of Appropriately Tailored Biopolymer and Carbonaceous Adsorbents for the separation and Recovery of Europium	Prof N Rajesh	Chemistry	2959370	DST	August 4, 2017
6	Design, Synthesis and Biological Evaluation of HDAC3 Selective Inhibitors as Long Term Memory Enhancers	Dr Balaram Ghosh	Pharmacy	2987800	DST	August 7, 2017
7	Metal-Oxide and nano composite based low-power non-volatile switching device : a novel approach	Dr Souvik Kundu	EEE	3490650	DAE-BRNS	August 1, 2017
8	Development of pH-responsive smart capsule containing targeted multilayer film for drug delivery: The proof-of-concept study in colorectal cancer model	Dr Vamsi Krishna Venuganti	Pharmacy	5554225	DST	August 16, 2017
9	Costal wetlands characterization using L and S bands of polarimetric SAR data	Dr Rajitha	Civil Engineering	1358000	ISRO	November 13, 2017

Campus Community Welfare Activities

Clinic Management Software

Clinic management software has been installed in the medical center to streamline patient information and records. A lady doctor and a male nurse have joined the medical center last year. The medical center also has a nurse on duty, present 24 x 7 to attend to patients. A dentist visits once a week and a gynecologist visits twice a week at the medical center.

Festivities

The community celebrated a week long Ganesh Puja. The celebrations ended with cultural performance from kids and adults in the auditorium. Professionals visit the campus to teach musical instruments, classical dance and classical music. Community Sports competition was organized for the third time for community members. Various schools from the city visited the campus to make presentations regarding their curriculum and extracurricular activities and also had question-answer session with parents.



Sanskriti

Our campus is filled with people from various colourful traditions and background. Sanskriti is an evening which is dedicated to celebrating these traditions together and basking in the shared joy of our cultures. This year, Sanskriti was held on Sunday, November 12 2017 and marked the end of the week-long cultural competition, Renaissance. On the event of Sanskriti, there were performances by various regional associations on campus which included songs, dances and plays. The students also dressed in their ethnic best. With students hailing from different parts of the country, the recollections of home were fondly enacted and students painted vivid pictures of the diversity of India. Each region was celebrated and this struck a chord with the audience as a variety of native art forms were depicted. A food festival, Grub, organized by the Food & Culinary Activities Society and the SMC included sumptuous delights from across the country. The photo booth set up by DoPy enhanced the experience.

Renaissance

This year's edition of **Renaissance**, the annual Inter Bhawan cultural competition was conducted for a period of one week, from November 5-11, 2017. Each cultural club on campus organised multiple events for both club and non-club members to participate in. As students stood to represent their respective Bhawan, a spirit of fun and competition ensued. Among the many events were Hindi Tarang's Antakshari, Dance Club's Solo dance competition, Journal club's Time Machine, SAFL's Treasure Hunt, ELAS's Flash fiction to name a few. The week long event received a good turn out with enthused freshers coming together to take part.



Independence Day Celebrations



On the morning of August 15, 2017, BPHC woke up to a patriotic vibe on a lovely midweek morning. The tricolour was unfurled by the director Prof. G. Sundar. This was followed by a marathon and some cultural events following which medals were awarded to the marathon winners. Later that day, NSS BPHC Chapter visited local schools and conducted events there. The Quiz Club conducted their traditional Independence Day Quiz which was well received by the students who participated in large numbers. Throughout the day people were seen sporting the tricolour in the form of flags or badges.



Graduands Farewell Party



Graduands farewell party was organized by Alumni Affairs Cell on November 22, 2017 at library quadrangle. While bidding farewell to graduating students, Prof G. Sundar (Director) congratulated the students and called upon them to make their institution proud. He advised the students to be connected with their alma mater. Around 400 students, faculty and staff members were present in the function.

Several students spoke on these farewells and conveyed their gratitude to the institute and the teachers for helping them learn and grow. They said that staying at BITS and facing the challenges have made them better human beings and helped them develop leadership qualities.

9th Book Festival (October 23-29, 2017)

The week long Annual Book Festival was organised from October 23 and 29, 2017 by the Library in association with the Campus Book Store. Over 20 leading publishers participated in this event and around 22k books on various subjects including self help and children's literature were on display. Faculty and students were encouraged to recommend the books from the display to the library. Apart from the students and the faculty, the community on the campus also showed keen interest in purchasing the books during the book festival.



Prof VS Rao Foundation sponsored 'Best All-Rounder Awards' 2017

Prof VS Rao Foundation was established by the Founder Director of Hyderabad Campus Prof VS Rao, who was associated with BITS Pilani for over 4 decades.

The awards have been expanded to categories, recognizing students who have not only excelled in their academic pursuits but also developed all-round skills and attained remarkable feats in their domains of their choice. Apart from an illustrious track record of academic and non-academic achievements, qualities of an active learner such as independent and reflective thinking ability to take initiative and creativity were also considered by the selection committee. The Committee valued signs of a responsible citizen such as positive values, public spirit and commitment and also gave importance to attributes of a capable leader such as vision, confidence and collaborative skills.

Nominations were received from the interested and eligible graduating first year degree students. A maximum of 2 students (1 Male & 1 Female) from the final year are selected. A certificate of appreciation along with prize money of Rs. 50000 each is awarded. Committee members judge the students in different areas on basis of the parameters. The awards were presented during the Convocation 2017.

Awardees

Best Male all-rounder award 2017

Mr. Kundaliya Parth Krishnakumar 2013 A7TS091H
Rs.50,000

Best Female all-rounder award 2017 was shared between

Ms. Reeti Sarkar 2013 A2PS581H Rs.25,000

Ms. Sagi Sai Sruthi 2013 A7PS499H Rs.25,000



First Colloquium Talk

The objective of the colloquium is to bring together the faculty members and students of the Engineering, Sciences and Humanities and expose them to novel ideas and thought processes. Over the coming months, we intend to invite distinguished medical professionals, engineers, mathematicians, scientists, economists, public servants, artists, sports personalities and philanthropists. BITS faculty and students engage in several academic and

cultural activities. We envisage the colloquium contributing to this culture. We hope that it allows two hours of careful reflection as a community on issues of national and international importance.

On September 18, in the inaugural talk of the 'BITS Colloquium Series' Prof. M. S. Ananth talked about the idea of a university. He started with the ideas of the 'university' articulated by the Renaissance thinkers. He indicated that in depth study of natural and social sciences can lead to indefinite human progress. He emphasized that the information about the world revealed through electromagnetic waves is going to make revolutionary changes in the future. Finally, he remarked that in the global knowledge economy of today, the University is expected to help increase the gross enrollment ratio and also to encourage innovation and entrepreneurship.



ATMOS

The annual techno management festival, ATMOS of BITS Pilani, Hyderabad Campus was held from the October 27-29, 2017. The fest has been growing in popularity over the years and this time around a large number of students from different parts of the country flocked to the campus to attend the workshops and competitions organised by the student technical associations. From trading workshops to Python conference to petroleum refining, there was something for everyone in this fest. E. Sreedharan, the metro man of India addressed the audience on the first day of ATMOS. Dilip Chabria was the keynote speaker of the fest. A tech panel discussion was held to discuss how the rise in artificial intelligence will affect humanity and jobs. The rock band, 'The Local Train' performed at the festival and energised the audience to their cores. Finally, the fest ended on a high note with the delightful show of famed standup comedian Rahul Subramaniam.



Introducing New Faculty (1 January - 31 December 2017)

S. No.	PSRN	Employee Name	Designation	Department	Research Areas
1	H0583	Piyush Khandelia	Assistant Professor-I	Biological Sciences	Molecular Biology, Genetics, RNA Biology,
2	H0593	Pragya Komal	Assistant Professor-I	Biological Sciences	Neurosciences (Molecular Signalling)
3	H0595	Sudha Radhika	Assistant Professor-I	Electrical & Electronics Engineering	Current Signature Analysis, Machine Condition Monitoring, Image Processing, Remote Sensing, Green energy
4	H0598	Prasant Kumar Samantray	Assistant Professor-I	Physics	Ads/CFT Correspondence, String theory and Black holes
5	H0602	Tanmay Chatterjee	Assistant Professor-I	Chemistry	Organic Chemistry
6	H0603	Angan Sengupta	Assistant Professor-I	Chemical Engineering	Chemical Engineering, Modelling and Simulation, Thermodynamics, Molecular Simulation
7	H0604	Jhuma Sen Gupta	Assistant Professor-I	Mathematics	Numerical Functional Analysis
8	H0605	Harish Vijay Dixit	Assistant Professor-I	Electrical & Electronics Engineering	Electromagnetics, RF, Microwave Engineering

Editorial Board



From L to R: Nikita, Prasanth, Udaykumar, Dr Santhosh and Dr Lavanya
Photo Credit: Ishaan Devangan 2015A3PS0328H

BITS in Media

BITS in Media

టర్ బిట్స్ లలోనే మరొక అధ్యయనం అవసరం

మన ప్రజలు తమ ప్రమాదాలను మరలించుకుంటే బిట్స్ లోనే మరొక అధ్యయనం అవసరం అంటున్నారు. బిట్స్ లోనే మరొక అధ్యయనం అవసరం అంటున్నారు. బిట్స్ లోనే మరొక అధ్యయనం అవసరం అంటున్నారు.

BITS in Media



The call of the alma mater

Convocation of BITS Pilani, Hyderabad

Convocation of BITS Pilani, Hyderabad. The ceremony was held on Sunday at the BITS Pilani Hyderabad campus. The Vice-Chancellor, Prof. S. S. Ramesh, addressed the graduates and their families.

BITS in Media

ఉష్ణోగ్రతల్లో మార్పులతోనే భూకంపాలు



Two student startups win TIE competition



Two student startups from BITS Pilani, Hyderabad, have won the TIE competition. The winners were awarded prizes and certificates by the organizers.

డిజిటల్ మోడల్స్ ముందుకు అభ్యయనం



Digitally enabled models are moving forward. The research team is working on developing new digital models for various applications.

A PORTAL FOR TALENT



'Develop sustainable techniques to help the nation'

The Waterman of India, Rajendra Singh, asks BITS students not to settle for hefty salary. He encourages them to develop sustainable techniques to help the nation.

Student-run start-ups win TIE CRAD contest



BITs-PILANI HOLDS COLLOQUIUM

BITs-Pilani, Hyderabad, held its inaugural colloquium on Monday. The event was attended by faculty members and students.



Mega events lined up at BITS Pilani

Mega events are lined up at BITS Pilani. The events include a variety of cultural and academic activities.

Faster, cheaper urinary tract infection



Faster, cheaper urinary tract infection tests are being developed. The research team is working on improving the accuracy and speed of the tests.

BITs Pilani holds 6th annual convocation

BITs Pilani held its 6th annual convocation. The ceremony was held on Sunday at the BITS Pilani Hyderabad campus.



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