



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent institution of MAHE, Manipal)

Department of Biomedical Engineering

Guest Lecture on

**“Technology and Public Health: Building
bridges for a healthy community”**

Guest Speaker:



Dr. Suma Nair

**Professor & Head, Department of Community Medicine,
KMC Manipal**

Saturday, 1 February 2020 at 2.15 PM

Venue: AB5 – 405

All are cordially invited

Dr. G. M Bairy

Professor & Head

Dept. of BME, MIT, Manipal

NATIONAL SYMPOSIUM ON BIOMATERIALS, DRUG DELIVERY & REGENERATIVE ENGINEERING (NSBDR 2019)

2nd & 3rd November 2019 | Manipal , Karnataka

Call
for
Posters

Organised by



Department of Biomedical Engineering
Manipal Institute of Technology
Maniपाल Academy of Higher Education (MAHE)
Manipal, Karnataka, India

NSBDR 2019

It is our pleasure to extend an invitation to participate in the **NATIONAL SYMPOSIUM ON BIOMATERIALS, DRUG DELIVERY & REGENERATIVE ENGINEERING – NSBDR'19** which will take place from November 2nd to 3rd 2019 in Manipal, Karnataka.

Bioengineering is a vast multidisciplinary field which aims at using the principles of engineering in biology and medicine. Bioengineering encompasses a broad spectrum of topics amongst which biomaterials, drug delivery, and tissue engineering are the front runners to have made significant advances over the last decade. The amalgamation and interdependence of these three disciplines can revolutionize the health science industry to give some fruitful outcomes. This symposium provides a platform for the presentation and discussion of cutting-edge research and recent developments made in this domain. It is a forum to exchange stimulating discussions, establish new collaborations, and enable participants to network with peers and bring together inspired people of this field.

Call for Posters

NSBDR 2019 invites original unpublished research contributions from science/engineering professionals from industry, R & D Organisations, Academic Institution, Government Department from across India on various topics, including but not limited to :

- **Biomaterials**
- **Nanomaterials**
- **Drug delivery**
- **Gene delivery**
- **Controlled Release**
- **Tissue Engineering**
- **Bioprinting**
- **Regenerative Medicine**
- **Stem Cells**
- **Tissue Microvascularization**
- **Implants**
- **Scaffolds, matrices**
- **Hydrogels**
- **Biopolymers**
- **Polymer-characterization**
- **Nanomedicine**

Abstract (As per given format in the website) should be submitted through google form (link in the website) / conference email. The Abstract should be submitted as a Word Document. Name of the Uploaded File should be in Presenter's Name

All abstracts will be published in the conference proceedings

Registration

Registration form for NSBDR 2109 can be found in the conference official website under registration section. The payment of registration fee shall be made through internet banking only. The details for the same are provided in the website.

Registration Fee

UG/PG Students (MIT/MAHE)	₹ 1000 (excluding GST)
Students	₹ 2000 (including GST)
Research Scholar & Professionals from Academia	₹ 3500 (including GST)
Professionals from Industry	₹ 5000 (including GST)
Attendant (Without presentation)	₹ 1500 (including GST)

Important Dates

Abstract submission deadline	September 15, 2019
Communication of Acceptance	October 10, 2019
Registration Deadline	October 15, 2019

Contact Details

Dr Goutam Thakur, Convenor

+91-820-29-24214 | nsbdr2019@gmail.com

<https://sites.google.com/view/nsbdr2019/home>

APEER Workshop

MIT, Manipal

Objective of the workshop:

Familiarization of APEER Platform to solve Microscopy and imaging challenges, by bringing programmers and researchers on the same platform.

Date: **Saturday, 03-08-19**

Time: **9:00 AM - 4:30 PM**

Goal:

- Participants to understand the value of APEER, the new digital solutions platform that is free to use and open to all.
- We explore potential solutions for research problems at MIT, Manipal
- We identify specific individuals for implementation of the solution on APEER Platform
- We define targets (e.g. Successfully implement a workflow by a specific date and publish results by certain month)

ZEISS Attendees:

Ms. Namritha S, Carl Zeiss Bangalore

Ms. Selvi Ramaswami, Carl Zeiss Bangalore

Mr. Surjeet Mandal, Carl Zeiss Bangalore

APEER - Creating and customizing image processing workflows by leveraging cloud technologies

For the past 170 years, since Carl Zeiss fabricated the first precise light microscope, the microscopy industry made incredible contributions that led to revolutionary breakthroughs in science and technology. Innovations enabled by microscopy affected our daily lives with advancements in fields like electronics, energy, construction, medicine, and nanotechnology. Modern microscopes broadened the scope of research, making it impossible for any single organization to address all applications. The new developments in software made it possible to address some of these applications. However, each researcher has unique needs and no single software offers exact solution to their specific jobs. Some code-savvy researchers write custom software but they make up only a tiny fraction of the enormous research community. As a result, most researchers use multiple disconnected software packages to stitch together a complicated workflow. The cobbled-together workflow makes it impossible to repeat experiments, not only by others but also by the same researcher. In addition, significant amount of valuable research time is wasted in converting file formats and moving data from one piece of software to another.

To address these and many more challenges faced by today's researcher, **ZEISS initiated APEER, the cloud based digital solutions platform that is free to use and open to all.** APEER enables researchers to create and customize image processing and data analysis workflows for their specific jobs – all the way from image acquisition to reporting.

Become a part of the growing APEER community at:

www.apeer.com

Follow us on Twitter @ [Apeer_micro](https://twitter.com/Apeer_micro)



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Department of Biomedical Engineering

Guest Lecture on

“Career Opportunities following the National Digital Health Blueprint”

Guest Speaker:

Prof. Suptendra Nath Sarbadhikari



Wednesday, March 4, 2020 at 9:00 AM

Venue: AB5 – 405

All are cordially invited

Dr. G. Muralidhar Bairy

Professor & Head

Dept. of BME, MIT, Manipal



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Department of Biomedical Engineering

Guest Lecture on

**An insight into the world of regenerative medicine
and how engineers can make a difference in this field
of study.**

Guest Speaker:



Dr. Gopal Pande
Dean, MIRM, Bangalore

Saturday, 14th September 2019 at 9 AM

Venue: Sir M V Hall, MIT

All are cordially invited

Dr. G. Muralidhar Bairy
Professor & Head
Dept. of BME, MIT, Manipal

REPORT: INDUCTION PROGRAMME 2019

DEPARTMENT OF BIOMEDICAL ENGINEERING, MIT

The first day of orientation program for Biomedical Engineering was arranged as Electrical Stream Orientation Day on July 15, 2109 at 2.30PM with a floral tribute to Dr. T.M.A. Pai by the dignitaries. The function started with invocation by Ms. Bhagya R Navada, Dept. of ICE and team. Dr. B.H.V. Pai, Joint Director, MIT, welcomed the gathering. Then Orientation programme was inaugurated by the Chief Guest Dr. H. Vinod Bhat, Vice Chancellor, MAHE along with other dignitaries. The Chief Guest was introduced by, Dr. C.S. Adiga, H.O.D of E & E Engineering MIT. The Chief Guest Dr. H. Vinod Bhat, VC, MAHE graced the occasion with an inaugural address. Dr. Sathish Kumar, HOD of E&C Engineering introduced Dr. Srikanth Rao, Director, MIT and then he delivered the presidential address. The details of 'Academic matters' rules and regulation were presented by Dr. Raviraj Adhikari, Associate Director (Academics), MIT. Dr. Veena Maben, Deputy Director, Student Affairs, MAHE spoke about Student Support System. Dr. Suresh Kumar, Chief Warden, MIT, advised students about the discipline in and around Hostel life. General instructions and vote of thanks were given by Professor Dr. Praveen Shetty, Assistant Director (Student Welfare) MIT. Ms. Sheeba Davis, Dept. of BME and Mr. Suhas M V, Dept. of ECE were the Master of Ceremonies for the function.

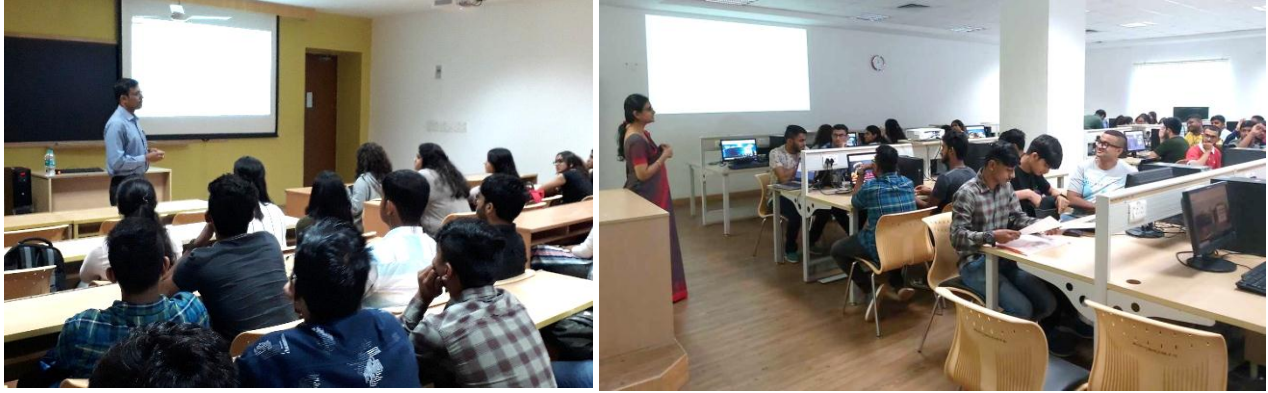
July 16th 2019 (Day 1 at the Department)

Dr. G Muralidhar Bairy, Prof. & Head, Dept. Biomedical Engineering interacted with the new batch of Biomedical engineering in the morning (from 9.30am to 10.30am). In his speech he described department profile, placement scenario and various other benefits of studying Biomedical Engineering. He introduced all the faculty and appreciated achievers in the department.



Dr. Venkateshan S V, Professor, Dept. of BME, MIT gave a talk on “Medical Devices Research” (from 10.45 am. to 11.45 am). He addressed to the students about various projects happening in the department. Even he highlighted the opportunity to work in various Medical device projects at MAHE. Dr. Pramod, Assistant Professor, and Ms. Sheeba Davis the faculty advisors interacted with the students (from 12 noon to 1 PM). Dr. G Muralidhar Bairy, Prof. & Head, Dept. Biomedical Engineering gave details about the “Academic Process” during 2.15 pm-3.15 pm. Later at 3.30pm onwards, students were guided to complete the registration to “SLCM and NAD”.





July 17th 2019 (Day 2 at the Department)

The morning session between 9.30 -10.30 am was conducted by Mr. Manjunatha Maiya, Sr. Project Manager, Philips on “Philips way of Delivering Healthcare Innovation”. He highlighted the economic realities that are driving the need for new approaches in healthcare. Presented the holistic view of people’s health journeys, starting with healthy living and prevention, precision diagnosis and personalized treatment, through to care in the home. Even he enlightened the unique approach to customer engagements-creating solutions together, Philips – Manipal collaborations in research and innovation. The problem of access & quality care at community/ primary level were addressed along with case study.



Dr. Ramesh R Galigekere, Professor, Dept. of BME, MIT at 10.45AM-12.15PM, addressed students with "Secrets of Learning for True Academic Excellence". Even he gave different variety of hints for success.



Dr. Srikanth Prabhu, Dept. of Computer Science and Engineering, MIT, interacted the students on “Business Tycoon, EQ and Artificial Intelligence” (at 2.15pm). The business tycoon talk deal with ideas, innovations and startups, for new comers. Even he highlighted the dealing with Business ideas, Real Life Applications with respect to Biomedical Engineering and role of Communication in tycoon Making. EQ and AI: This talk deals with Mind Body complex and Role of AI in EQ, or vice versa.



July 18, 2019 (Day 3)

Mr. Devadas Bhat, Dept. of BME, MIT gave talk on “HAM” (between 9.30AM-10.30AM). He gave importance of HAM application and gave a demo session.





Dr. Annapoorna K., In charge & Head, Division of Yoga, Centre For Integrative Medicine & Research (CIMR), Manipal Academy of Higher Education addressed students and gave details on “Yoga and Health” at 11.45AM. She gave importance of body- mind-coordination. And gave details on various Pranayama, ashana techniques. Explained Yoga and physiology, and its positive results.



Dr Samir Kumar Praharaj , Professor and Head, Dept. of Psychiatry, interacted with our students and discussed “Stress Management” at 2.15 PM. He discussed stress and distress. Ways to manage stress situations. He discussed and gave hints for handling extreme worry, sadness, tough situations.



Prof. Geethalakshmi, Assistance Director (Student Welfare), Dept. Humanities, MIT addressed students and gave insight into “Engineer and the Society” (at 3.30 PM). She addressed students in detail the importance of Engineer, in present day society.



July 19, 2019 (Day 4)

Prof. Suvarna Hebbar, In charge Department of Nutrition and Dietetics, Kasturba Hospital addressed students with “Good Food Habits” (9.30AM-10.30AM). She told importance of balance diet with fibre rich food for maintaining healthy life. And gave students various tips on their daily diet.



Dr. Fiddy Davis J, Head, Department of Exercise and Sports Sciences gave an inspiring talk on “MOVE – Benefits and Guidelines” (from 11am). 11 PM-12 noon Later in the afternoon visit to various facilities in the department was arranged.







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Department of Biomedical Engineering

Guest Lecture on
“Future of Work: How to make the best of it”

Guest Speaker:



Mr. Manjunath Hebbar
Founder and Chief Executive, Buoyanci Innovations, Bangalore

Saturday, 22 February 2020 at 2.15 PM
Venue: AB5 – 405

All are cordially invited

Dr. G. Muralidhar Bairy
Professor & Head
Dept. of BME, MIT, Manipal

Talk will cover:

- key trends in the market,
- how companies are preparing themselves for the next wave of changes in the industries,
- what are they doing to get their workforce ready for the same
- as fresh engineers, what do they expect from you and how to prepare and make the best of it
- what skills - technical and soft, are required to be toned while you get ready for the industry