

International webinar on
**BIOMATERIALS THE ROAD AHEAD:
ENABLING AFFORDABLE AND
ACCESSIBLE MEDICINES**

Keynote Speakers

Prof. Bikramjit Basu

IISc, Bangalore, India, (Bhatnagar Awardee)

Dr. Thomas Chandy

University of Minnesota
Phillips-Medisize, USA



16th and 17th
March 2022

Day-1

Inaugural programme

Keynote by Prof. Bikramjit Basu

Day-11

Keynote by Dr. Thomas Chandy

Session-1

Biomaterials for affordable and accessible medicines for chronic diseases to ensure quality of life: Key challenges, opportunities and future directions: Oral presentations by Professors, Postdocs, PhD students, Masters students.

Session-11

Biomaterials for affordable and accessible medicines in the technology frontier: Challenges, opportunities and future directions: Oral presentations by Professors, Postdocs, PhD students, Masters students.

Pannel discussion

Translation of academic inventions: a fast track approach for affordable and accessible medicines: by eminent from Research, Academia, Industry and Regulatory affairs.

**Valedictory function
and prize distribution**

Patron : Dr. Sabitha M

Convenor : Dr. Kaladhar K

Coordinators : Dr. M S Sudheesh
Dr. Vidya Viswanad
Ms. Sreeja C Nair
Ms. Swati Gupta
Dr. Rahul Soman

For any query contact : 9947295354

**Registration
Fee**

**For all delegates
-Rs.500**

**Click Here
To Register**



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Artificial organs India
(SBAOI)

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Keynote Speakers- I



16th and 17th
March 2022



Prof. Bikramjit Basu

IISc, Bangalore, India
(Bhatnagar Awardee)

Prof. Basu is currently a Professor at the Materials Research Center, with joint appointment at the Center for Biosystems Science and Engineering, Indian Institute of Science (IISc), Bangalore. He also serves as Visiting Professor at University of Manchester, UK (2018-2023) and at the European Centre for Functional and Surface Functionalized Glass, Alexander Dubček University of Trenčín, Slovakia (2020- 2021).

Pro.Basu's contributions in Engineering Science have been globally recognised. He received Government of India's most coveted science and technology award, Shanti Swarup Bhatnagar Prize in 2013 for his significant contributions to the field of Biomaterials Science.

Title of the talk

**“Biomaterialomics: Data Science-driven Pathways to develop
fourth-Generation Biomaterials”**

This talk will focus on development of next generation biomaterials. Conventional approaches to developing biomaterials and implants require intuitive tailoring of process variables, long development cycles, and high expenses. To meet the biomedical and clinical demands, it is critical to accelerate the production of personalized implantable biomaterials and biomedical devices. Building on the Materials Genome Initiative, we define the concept 'biomaterialomics' as the integration of multi-omics data and high-dimensional analysis with artificial intelligence (AI) tools throughout the entire pipeline of biomaterials development based on their efforts.



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Keynote Speakers- II



16th and 17th
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Dr. Thomas Chandy
University of Minnesota,
Phillips- Medisize, USA

Dr. Chandy has about Thirty years of experience in the management/execution of Medical Device Research & Development from University of Minnesota. At present, he works as a Consultant with GLG Consulting, New York and consults in the areas of biomaterials (polymers, metals and ceramics) for medical device applications, combination devices-their testing and FDA regulations and EU MDR guidelines, biosensors, wearable injectors in drug delivery, contract manufacturing, biocompatibility aspects etc. Before 2020, he worked with Phillips Medisize, Hudson, WI as a Pr. Materials Engineer and Program Lead in the areas of process development and testing of inhaler drug delivery, Micro-injectable pens and pumps, combination drug delivery devices and connected devices.

Title of the talk

“Overview of Bio-materials and their use in Medical Devices”

This talk will focus on biomaterials-biocompatibility aspects of implants; related to drug delivery, micro-needle technology, implantable devices (ECG implants, tissue hemostats, bone wax, tissue valves, vascular stents) and wearable injectors and connected devices.



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University of Minnesota
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16th and 17th
March 2022

Abstract submission guidelines :

A brief abstract of max. 200 words with the following contents, (1) title, (2) authors, (3) institutional address, (4) corresponding author email and (5) abstract. The font details, fontsize- 12, fontface- Times new roman, with headings in bold, Paragraph (single line-justified).

Prize

Selected presentations will be awarded first second and third prizes (In academic, research, PhD and masters category). All the participants will be given participation certificate. Selected papers will get assistance to publish in scopus indexed journal. All the decisions and results are at the sole discretion of the committee and cannot be challenged.

Rules for presentation :

Both presenting and non-presenting participants can register for the conference. One author cannot present more than one paper. The maximum time allowed is 7 minutes presentation and 3 minutes interaction. Preferably, the "pre-recorded presentation video with audio" need to be submitted by 12/03/2012, but limited number of participants will be allow to present online based on request. Just before the presentation, the presenting author will be informed and need to be available for the Q&A. The competitors need to mention it clearly in the application form.

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