

15TH OCTOBER
2019

CDE PROGRAM ON "BIO-MATERIALS- APPLICATION IN DENTISTRY"

ORGANIZED BY

PMS COLLEGE OF DENTAL SCIENCE AND RESEARCH AND
SREE CHITHRA TIRUNAL INSTITUTE OF MEDICAL SCIENCE
& TECHNOLOGY



REGISTRATION FEE : RS 350

Fee to be paid by online transaction in favour of:
PMS College of Dental Science and Research
A/c No. 010205300005113
IFSC Code: DLXB 00 00 102
Dhanlaxmi Bank - Vattappara, Thiruvananthapuram.

For more information contact:

DR.KIRAN S SHANKAR-9544639400
DR.RAJESH PILLAI-9447744470

Free transportation from Railway Station at 7:15 am to PMS College and
at 4:00 pm from PMS College to Railway Station

will be provided. **Contact B. Parameswaran Nair for transportation: M: 94958 15448**

*ONLY ON PRIOR NOTICE



PMS COLLEGE
OF
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NAAC Accredited Dental College

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Biomaterial Science explores the science of biomaterials and their translation towards clinical use. It addresses the science of cells and materials at the nanoscale and microscale and categorizes biomaterials as model system for stem cells and human biology. The next-generation biomaterial will be intended towards tissue engineering, regenerative dentistry, biomimetics including bio inspired selfassembly systems and cell inspired synthetic tools.

The benefits of attending this CDE include:

- It will provide an insight into the current directions of research in restorative dentistry
- Newer frontiers in biomimetic materials
- Current research in stem cells and regenerative dentistry.

SPEAKERS



“BIOACTIVE BONE GRAFT SUBSTITUTES”

DR. MANOJ KOMATH Ph,D

SCIENTIST G, BIOMEDICAL TECHNOLOGY WING,
SREE CHITRA TIRUNAL INSTITUTE OF MEDICAL SCIENCE AND TECHNOLOGY, TRIVANDRUM

This talk presents the experiences of a research team in India working on synthetic bone graft substitute products. The development of new generation synthetic bone grafts like the composite of hydroxyapatite and bioactive glass (HA-BG), and the calcium phosphate cements (CPC) will be described along with the methods of biocompatibility testing. The outcomes of the human clinical studies which show the bone regeneration capacity of these new generation synthetic bone grafts, also will be presented.



“RESEARCH AND DEVELOPMENT OF DENTAL RESTORATIVE MATERIALS”

DR. LIZYMOL P.P. Ph,D

SCIENTIST F& IN- CHARGE, DIVISION OF DENTAL PRODUCTS, BMT WING,
SREE CHITRA TIRUNAL INSTITUTE OF MEDICAL SCIENCES AND TECHNOLOGY

The main focus of the presentation will be on the various activities on development, physico- chemical, mechanical, in vitro cyto- compatibility, in vivo biocompatibility evaluation, pre clinical usage test and technology transfer activities of ORMOCER, which is a visible light cure composite based on Organically modified ceramic resin.



“NEW TRENDS IN DENTAL MATERIALS”

DR. MANJU. S, Ph.D.

SCIENTIST D, BIOMEDICAL TECHNOLOGY WING
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND
TECHNOLOGY, TRIVANDRUM,

Introduces new chemistries via the use of polymerizable click reactions or the use of ether-based resin monomers or the use of reactive nanogel additives are some of the current trends in dentistry to develop materials with enhanced properties.

PROGRAM SCHEDULE (15TH OCTOBER 2019)

08:00 am-9:00 am- Registration

09:00 am-9:30 am- Inauguration

09:30 am-10:45 am- “Bioactive Bonegraft substitutes”
By Dr. Manoj Komath

10:45 am -11:00 am- Tea Break

11:00 am-12:15 pm- “Research and Development of Dental
Restorative materials”
By Dr. Lizymol P.P

12:15pm-1:30 pm- “New Trends in Dental Materials”
By Dr. Manju. S

1:30 pm- Lunch

