



Asian Polymer Association

Organised by

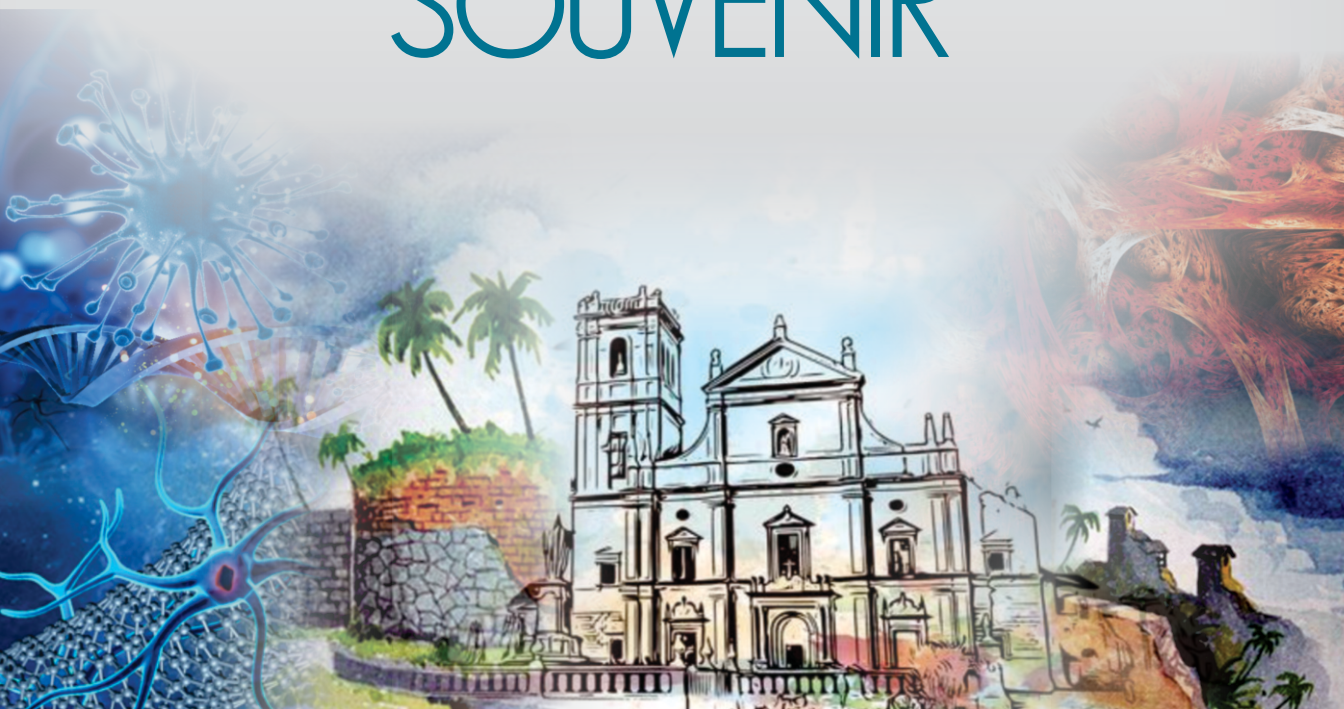


Society For Tissue Engineering and  
Regenerative Medicine India

# International Conference on Advances in Polymeric Materials & Human Healthcare

16-18 October, 2019 | Goa, India

## SOUVENIR





## Message

# ASIAN POLYMER ASSOCIATION



**Bhuvanesh Gupta**  
President (APA)



c/o Department of Textile Technology  
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Dated : 12.10.2019

### Message from the President, Asian Polymer Association

Asian Polymer Association (APA) is a professional platform and has achieved the distinction of being a dynamic association of polymer scientists. It is a multinational society involving members from different countries across the world. The vision of APA is to bring together polymer scientists and technologists from different countries on a single platform for a dynamic interaction among them.

APA is now organizing International Conference on Advances in Polymeric Materials & Human Healthcare (APA-STERMI 2019) in Goa during October 16-18, 2019. This is going to be joint activity of Asian Polymer Association and Society for Tissue Engineering & Regenerative Medicine (STERMI). This conference would felicitate a close interaction of polymer fraternity and biomedical scientists at the International level and would be the focal point of discussion among the delegates. On behalf of APA, I welcome the participants in Goa and wish this conference to be high profile and visionary event.

Bhuvanesh Gupta

## CHIEF GUEST



**Professor Jöns Hilborn**

Ångström Laboratory  
University of Uppsala, Uppsala, SWEDEN  
hilborn@mkem.uu.se

It is a privilege to have Professor Jöns Hilborn as Chief Guest during the Inaugural ceremony of the International Conference on Advances in Polymeric Materials & Human Healthcare (APA-STERMI 2019) in Goa. It is a great moment to honour Professor Hilborn for his achievements and innovations in the field of polymer science & technology. Professor Hilborn did his Master's in Chemical Engineering from Royal Institute of Technology, Stockholm, Sweden in 1981 and subsequently finished his Ph.D. from the same institute in 1987. Subsequently, Prof. Hilborn joined Swiss Federal Institute of Technology (EPFL) in Lausanne as faculty member 1994. Later on, Prof. Hilborn moved to University of Uppsala, Sweden in 2001 as the Professor of polymer chemistry where he is heading a huge group of people dedicated to the domain of polymer synthesis and their innovative applications for use in the human body.

Prof. Hilborn has been working in the field of development of new polymeric materials as scaffolds for tissue engineering. He has strong scientific collaboration with a number of laboratories from different countries and is involved in extensive networking of tissue engineering activities across Europe and Asia. Professor Hilborn is closely associated with European Union programme for tissue engineered products. Professor Hilborn has been the President of European Tissue Engineering society for the year 2003-2005 and today he is the President of the Tissue Engineering & Regenerative Medicine International Society (TERMIS).



## GUEST OF HONOUR



**Dr. Ajit Sapre**

Reliance Industries Limited  
Mumbai

Ajit Sapre is the Group President R/T in Reliance Industries Ltd and has 40 years of experience in the petroleum refining and petrochemicals business, as well as new business development based on cutting edge technology developments and management. He received his PhD from the University of Delaware and MBA from Cornell University. His experience includes technical and managerial assignments in research, engineering, licensing, business, manufacturing units and corporate planning. He has worked in upstream, downstream (refining, petrochemicals, polyester, tubes) and renewable energy sectors.

Dr. Sapre has strong management and technical background in processes and catalyst development, chemical reaction engineering, optimization technologies, computer integrated manufacturing and intellectual asset management. He has published more than 100 technical papers, one book and has more than 45 U.S. patents to his credit.

## GUEST OF HONOUR



**Dr. CP Sharma**  
SCTIMST, Trivandrum

Chandra P. Sharma is the Founder of Society for Biomaterials and Artificial Organs India (SBAOI) & Society for Tissue Engineering and Regenerative Medicine India (STERMI). He is Hon. Emeritus Professor CBEAS Purbanchal University, Kathmandu, Nepal and Hon Editor in Chief of Trends in Biomaterials and Artificial Organs-an international journal published by SBAOI. He has been Senior Scientist and Head, Biomedical Technology Wing (BMT Wing), Associate Head BMT Wing and Associate Dean PhD affairs Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, India. He has also been adjunct Professor in Department of Pharmaceutical Biotechnology, Manipal University India. Dr. Sharma is Fellow of the International Union of Societies for Biomaterials Science and Engineering. He has published over 400 papers including book chapters , processed 40 patents in various countries and edited/coauthored six books. He has been guest editor of several issues of international journals and presently member of the editorial board of many Journals. Dr. Sharma received his Biomaterials training with Prof DJ Lyman, University of Utah as a graduate student and with Prof David F Williams, University of Liverpool as Postdoctoral research associate.

## APA Distinguished Award 2019



**Laura Teodori**  
ENEA, Rome, Italy

Laura Teodori is currently Director of Research at ENEA, the Italian National Agency for New Technology, Energy and Sustainable Economy, in the Diagnostics and Metrology Laboratory, Division of Physics for Health Science. She also teaches Applied Medical Sciences at the Faculty of Medicine and Surgery, University of Rome "Tor Vergata". She coordinated the project "SMARTIES" smart scaffolds for skeletal muscle regeneration, funded by Regione Lazio-Italy. The main topics of her research are regenerative medicine, tissue engineering and biomaterials. She co-chairs the Indo-Italian Forum on Biomaterials and Tissue Engineering.

She was born in Rome where received her doctoral degree in Biology from University of Rome "La Sapienza". After her postdoctoral position at the MD Anderson Hospital, University of Texas, USA. She worked on the application of the multiparametric flow cytometry (FC) and on a variety of other cellular and molecular techniques, in 1981 she worked in the Institute of Radiobiology, University of Muenster, Germany with Prof. Göhde, one of the FC inventors. She contributed to the early development of flow cytometry in Italy and worldwide, co-founding the Italian Group of Cytometry in 1986.

Awarded with "Short Term Mobility Grants" by the Italian Research Council she worked at the New York Medical College, USA in 2001. She received the Distinguished Service Awards from International Society for the Advancement of Cytometry - ISAC (Seattle 2010). She has also been scientific advisor for the European Centre of Excellence in Molecular Medicine in Lodz, Poland, and scientific collaborator for the Regional Government for high education and internationalization (2006-2008). She was nominated (2010-2012) Secretary of the International Society for the Advancement of Cytometry. She was elected as Biological Councilor for the ISAC Executive Board (2004-2010).

APA appreciates the innovative contribution of Prof. Teodori to the field of Biomedical Engineering. This landmark event is dedicated to honor the recognition & appreciation of Prof. Teodori to the Bio domain. Asian Polymer Association, on this memorable occasion, confers the APA DISTINGUISHED AWARD to Prof. Laura Teodori.

## APA Young Scientist Award 2019



**Biman B Mandal**

Indian Institute of Technology Guwahati, India

Dr. Biman B. Mandal is a Professor at Department of Biosciences and Bioengineering, Indian Institute of Technology Guwahati (IITG). Dr. Mandal received his Ph.D from IIT Kharagpur and Post Doc from Tufts University, Boston, USA. His research area is Tissue Engineering and Regenerative Medicine.

Dr. Mandal has published 123+ International journal articles with a cumulative impact factor of 634+, 4000+ citations and H-index of 34. He is lead inventor in 04 US and 11 Indian patents, contributed 09 book chapters, delivered 55+ Plenary/Popular/Invited talks, Editorial board member of 11 International Journals and visiting faculty of 05 International Universities.

Dr. Mandal is a recipient of NASI-SCOPUS Young Scientist Award 2016; INSA- Medal 2015; NASI- Medal 2013; DST- INSPIRE Faculty 2013; Gandhian Young Technological Innovation Award 2014; DAE-Young Scientist Award 2011, SYIS- TERMIS Asia-Pacific Young Investigator Award 2011; MAHE Young Scientist Award 2012; DBT- Young Scientist Award 2012; DST- Young Scientist Award 2012. His lab is recognized as a "Unit of Excellence" by DBT and has received major funding support from DBT/DST/ICMR/DAE/DRDO.

On behalf of APA, we congratulate Prof. Mandal for such an achievement and wish a bright career in the future.

## APA ICON 2019



### **Ghanshyam S Chauhan**

**Emeritus Scientist, CSIR, HPU Shimla, India**

Dr. Ghanshyam S Chauhan, retired as Professor, Department of Chemistry, Himachal Pradesh University, where he is presently Emeritus Scientist (CSIR-India). He completed Bachelor of Science degree (first class first) from DAV College (Punjab University); Master of Science (with gold medal), Master of Philosophy (1982) and Ph.D. (1986) degrees from Himachal Pradesh University, Shimla (India). He is engaged in teaching and research profession since February 10, 1985.

He was UNESCO fellow at Charles University and Institute of Macromolecular Chemistry, Prague (1990-1991); DST-Science Engineering Research Council Fellow at National Chemical Laboratory, PUNE (India) (1997-1998); Brain Pool Invited Scientist of Korean Foundation of Science and Technology, at Department of Chemical and Biological Engineering at Gyeongsang National University, Jinju, Republic of Korea (2008) and again during 2014-2015. He has also visited many other Institutes including CNRS, Thias, Paris, Technical University Bratislava, etc. He is recipient of many awards for research and academic accomplishments.

He has been in teaching and research for around thirty three years and thus have vast experience of research, consultancy and teaching in polymer chemistry. He has executed many research projects; published more than 250 research papers and presented papers in conferences and delivered plenary, keynote address and many invited talks on diverse areas ranging from biomass utilization to smart polymers, nanogels, antimicrobial polymers, functional hydrogels for use in water purification, drug delivery devices, supports for enzyme immobilization at various national and international fora.

## Plenary Speakers



**Jöns Hilborn**  
University of Uppsala, Sweden



**Seeram Ramakrishna**  
NUS, Singapore



**Laura Teodori**  
ENEA, Rome, Italy



**Didier Letourneur**  
INSERM, France



**Joëlle Amédée**  
INSERM, France



**Harpal Singh**  
IIT Delhi, India



**Amit Biswas**  
Hyderabad, India

## Keynote Speakers



Philippe Roger  
UPS, France



Andreas Greiner  
UB, Germany



Pranee Phinyocheep  
MU, Thailand



Rama Shanker Verma  
IIT Madras, India



Mukesh Kumar Singh  
UPTTI, India



Yoshimoto Keitaro  
UT, Japan



Apurba Das  
IIT Delhi, India



Swapan Ray  
RIL, India



V N Rajasekharan Pillai  
SVU, Mumbai



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IIT Delhi, India

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Manohar V Badiger  
NCL Pune, India

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Singh K P	HAU, India
Tabata Y	Kyoto Univ. Japan
Teodori Laura	ENEA, Italy
Xu Jian	ICCAS, China
Yadav Amar	TU, Nepal
Zhang Yaopeng	DU, Shanghai, China
Zhu Meifang	DU, Shanghai, China

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## Poster Evaluation Committee

16 October 2019	17 October 2019
Satyendra Mishra	Philippe Roger
Yoshimoto Keitaro	N G Shimpy
Anupama Sharma	Pranee Phinyocheep
Rama S verma	Sidhharth Sirohi
Manohar V Badiger	Yashveer Singh

## Springer Oral Evaluation Committee

Rama Shankar Verma
Yoshimoto Keitaro
Yashveer Singh

## Student Committee

Verma Chetna	IIT Delhi
Gupta Neha	LR College, Ghaziabad
Maharana Tungabidya	NIT Raipur
Patra Shamayita	SVIT Indore
Singh Surabhi	DRDO, New Delhi
Viju S	PSG Coimbatore

## Springer Oral Contest

Sl. No.	Abs. No.	Name	Institute
SA1	49	Sawan Shetty	National Institute of Technology Karnataka, Surathkal
SA2	66	Surabhi Singh	INMAS, DRDO, New Delhi
SA3	69	Agilan Perumal	Anna University, Chennai
SA4	94	Sambit Ray	National Institute of Technology, Rourkela
SA5	165	Namitha K	Yenepoya (Deemed to be University), Mangalore
SA6	200	Preeti	Punjab University, Chandigarh
SA7	232	Swathi KR	Bangalore University
SA8	240	Shatakshi Verma	CIPET, Chennai

Time	Day 1, Wednesday, 16 October, 2019			
08:00- Onwards	<b>Registration</b>			
09:00-10:20 h	<b>Inauguration</b> Theme Plenary : Jöns Hilborn			
10:20-10:50 h	<b>Inaugural Tea</b>			
10:50-11:30 h 11:30-12:10 h 12:10-12:50 h	<b>Plenary Session</b> <b>Chairs :</b> Philippe Roger & Joëlle Amédée  PL: Seeram Ramakrishna PL: Amit Biswas PL: Didier Letourneur			
13:00-14:00 h	<b>Lunch</b>			
14:00-16:00 h	<b>Hall I (Mandovi)</b>	<b>Hall II (Zuari)</b>	<b>Hall III (Sal)</b>	
	<b>Polymer Synthesis</b>  <b>Chairs:</b> M C Albertini & Manohar V Badiger	<b>Microsymposium on Bioplastic &amp; Sustainability</b> <b>Chairs:</b> Anup K Ghosh & Virendra K Gupta	<b>Student Conclave Springer Oral Contest</b> <b>Chairs:</b> Rama S Verma, Yoshimoto Keitaro & Yashveer Singh	
14:00-14:25 h 14:25-14:45 h 14:45-14:55 h 14:55-15:05 h 15:05-15:15 h 15:15-15:25 h	KN: Philippe Roger IL: Virendra Kumar OL: Ashish Guleria OL: Sonu Kumar OL: Subrata Pal OL: Kanchan Mehta	KN: V N Rajasekharan Pillai KN: Swapan Ray IL: Shantanu Bhowmik IL: Sunil Dhamaniya	☉Agilan Perumal ☉Surabhi Singh ☉Preeti ☉Shatakshi Verma	☉Sawan Shetty ☉Sambit Ray ☉Swathi K R ☉Namitha K P
15:30-17:30 h	<b>Poster Session &amp; Tea</b> <b>Chair:</b> G S Chauhan			
17:30-18:30 h	<b>APA Distinguished Award Plenary Session</b> Chairs : Jöns Hilborn & Bhuvanesh Gupta  PL: Laura Teodori			
18:30- Onwards	<b>Cruise Dinner</b>			

Time	Day 2, Thursday, 17 October, 2019		
08:00-Onwards	Registration		
09:15-10:30 h	<b>Plenary Session</b> Chairs: Seeram Ramakrishna & Didier Letourneur		
09:15-09:55 h	PL: Joëlle Amédée		
09:55-10:35 h	PL: Harpal Singh		
10:35-11:00 h	Tea		
Parallel Sessions	<b>Hall I (Mandovi)</b>	<b>Hall II (Zuari)</b>	<b>Hall III (Sal)</b>
	<b>Polymers for Advanced Technology</b> <b>Chairs:</b> Atsushi Suzuki & Abdul Kader	<b>Biomaterials &amp; Bioengineering</b> <b>Chairs:</b> Pranee Phinyocheep & Mukesh Singh	<b>Microsymposium on Tissue Engineering</b> <b>Chairs:</b> Laura Teodori & Harpal Singh
11:00-11:25 h	KN: Andreas Greiner	KN: Yoshimoto Keitaro	KN: Rama Shanker Verma
11:25-11:45 h	IL: Amar Yadav	IL: Manohar V Badiger	IL: Manasa Nune
11:45-12:05 h	IL: Smita Mohanty	IL: Biman B Mandal (Award Lecture)	IL: Amlan Gupta
12:05-12:15 h	OL: Prem lata Meena	OL: Sanjay B Patil	IL: Narayan C Mishra
12:15-12:25 h	OL: Sonalee Das	OL: Sujoy Kumar Dey	OL: Divakar Singh
12:25-12:35 h	OL: Subhankar Maity	OL: Shiny Velayudhan	
13:00-14:00 h	Lunch		
Parallel Sessions	<b>Hall I (Mandovi)</b>	<b>Hall II (Zuari)</b>	<b>Hall III (Sal)</b>
	<b>Polymers for Advanced Technology</b> <b>Chairs:</b> V K Gupta & Smita Mohanty	<b>Nanomaterials &amp; Nanocomposites</b> <b>Chairs:</b> Amit Biswas & Biman B Mandal	<b>Functional Materials &amp; Nanogels</b> <b>Chairs:</b> Amlan Gupta & Andreas Greiner
14:00-14:25 h	KN: Pranee Phinyocheep	KN: Apurba Das	KN: Mukesh Singh
14:25-14:45 h	IL: Atsushi Suzuki	IL: Rajashekhar F. Bhajantri	IL: Sunita Rattan
14:45-15:05 h	IL: Satyendra Mishra	IL: Anupama Sharma	IL: Yashveer Singh
15:05-15:15 h	OL: P R Suresha	OL: Sidhharth Sirohi	OL: A Mohanan
15:15-15:25 h	OL: Yogesh Marathe	OL: Siddhartha	OL: Chetna Verma
15:25-15:35 h	OL: Sandeep Kumar	OL: Surita Basu	OL: Susmita Dey Sadhu
15:35-15:45 h	OL: Manu Vashishtha	OL: Supriya Gupta	OL: Reena Singhal
15:45-17:45 h	<b>Poster Session &amp; Tea</b> Chair: Sunita Rattan		
17:45-18:45 h	APA & STERMI General Body meeting		



Time	Day 3, Friday, 18 October, 2019		
Parallel Sessions	Hall I (Mandovi)	Hall II (Zuari)	Hall III (Sal)
	<b>Innovative Fibres and Fibrous Material</b> <b>Chairs:</b> Apurba Das & Satyendra Mishra	<b>Smart Biomaterials and Drug Delivery</b> <b>Chairs:</b> Seema Agarwal & Sunita Rattan	<b>Wisdom Contest</b>
09:00-09:20 h	IL: Jitendra Pratap Singh	IL: Vikas Gite	
09:20-09:40 h	IL: Shubham Joshi	IL: Sofia Coppari	
09:40-09:50 h	OL: Purnima D	OL: Ashwini Wali	
09:50-10:00 h	OL: Upama Baruah	OL: Sravendra Rana	
10:00-10:10 h	OL: Richa Sharma	OL: H S Nanda	
10:10-10:20 h	Break		
Parallel Sessions	Hall I (Mandovi)	Hall II (Zuari)	
	<b>Miscellaneous Materials</b> <b>Chairs:</b> J K Rathour & Amar Yadav	<b>Polymers for Advanced Technology</b> Chairs: Narayan C Mishra & Anupama Sharma	
10:20-10:40 h	IL: Seema Agarwal	IL: Deepak Gupta	
10:40-11:00 h	IL: Navinchandra G. Shimpi	IL: Nilay Kanti Pramanik	
11:00-11:10 h	OL: Monika Chhajed	OL: Sanjay Singh	
11:10-11:20 h	OL: Dinesh Kumar	OL: Akhtarul Islam Amjad	
11:20-11:30 h	OL: Madan Lal Regar	OL: Parthiv Trivedi	
11:30-11:45 h	Tea		
11:45-13:00 h	Valedictory Function Felicitation Function Award Ceremony		
13:00-14:00 h	Lunch		
End of the event !			

## Day I, Wednesday, 16 October, 2019

### REGISTRATION

**Venue: Mandovi Hall (Pre Function Area)**

Time: 08:00 h

### INAUGURATION

**Venue: Mandovi Hall**

09:00-10:25 h

09:00-09:05	<b>Welcome Address by</b>	<b>Prof. Bhuvanesh Gupta</b> President APA
09:05-09:15	<b>Theme Address by</b> Guest of Honour	<b>Dr. C P Sharma</b> Founding President, STERMI
09:15-09:40	<b>Conference Address by</b> Privileged Guest of Honour	<b>Dr. Ajit Sapre</b> Reliance Industries Ltd, India
09:40-10:20	<b>Inaugural Plenary Address by</b> Chief Guest	<b>Prof. Jöns Hilborn</b> University of Uppsala, Sweden
10:20-10:25	<b>Vote of Thanks</b>	<b>Prof. Anup K Ghosh</b> IIT Delhi, India

### Inaugural Tea

Time : 10:25-10:50 h

Chairs : Philippe Roger & Joëlle Amédée

**PLENARY TALK I: Seeram Ramakrishna**, NUS, Singapore

Smart Wearables: Nanotechnology & Nanofibers

Time: 10:50-11:30 h

**PLENARY TALK II: Amit Biswas**, Hyderabad

Structure, Morphology and Performance of Exemplary Polymer Based Drugs

Time: 11:30-12:10 h

**PLENARY TALK III: Didier Letourneur**, INSERM, Paris, France

Molecular Imaging and Targeted Treatment of Cardiovascular Thrombotic Diseases

Time: 12:10-12:50 h

### Lunch

Time : 13:00-14:00 h

Session Polymer Synthesis		
Chairs: Maria Cristina Albertini & Manohar V Badiger		Venue: Hall I
Time	Lecture	Title/Author
14:00-14:25 h	KN:	Preparation of PET Films Grafted With Poly(Pentafluorophenyl Methacrylate) for Post-Functionalization and Antibacterial Properties Purposes <b>Philippe Roger</b> Université Paris Sud, Orsay, France
14:25-14:45 h	IL:	Radiation Functionalised Polymers for Water Purification Applications <b>Virendra Kumar</b> Bhabha Atomic Research Centre, Mumbai, India
14:45-14:55 h	OL:	Poly(Methacrylic Acid-Co-Acrylonitrile) Grafted Microcrystalline Cellulose for Removal of Toxic Metals from Impaired Waters <b>Ashish Kumar Guleria</b> WIT Dehradun, Dehradun, India
14:55-15:05 h	OL:	Synthesis of PEGylated Peptidic Conjugates Via One-Pot "Click" Reaction <b>Sonu Kumar</b> Punjab Engineering College, Chandigarh, India
15:05-15:15 h	OL:	Development of Super Absorbent and Antibacterial Rayon Fibers by Radiation Induced Grafting with Various Quaternary Ammonium-Based Monomers for Hygiene Applications <b>Subrata Pal</b> Shriram Institute for Industrial Research, Delhi, India
15:15-15:25 h	OL:	Synthesis and Characterization of Transdermal Polymeric Adhesive Tape Through Graft Co-Polymerization for Biomedical Applications <b>Kanchan Mehta</b> Shriram Institute for Industrial Research, Delhi, India

Session <b>Microsymposium on Bioplastic &amp; Sustainability</b>		
Chairs: Anup K Ghosh & Virendra K Gupta		<b>Venue: Hall II</b>
Time	Lecture	Title/Author
14:00-14:25 h	KN:	Rational Design of Sustainable Polymers Making Use of Molecular Approaches <b>V N Rajasekharan Pillai</b> Somaiya Vidyavihar University, Mumbai, India
14:25-14:50 h	KN:	Sustainability & Indian Plastic Industry <b>Swapan Ray</b> Indian Center for Plastics in the Environment (ICPE), Mumbai, India
14:50-15:10 h	IL:	Recycling Plastic Waste into Composite Products <b>Shantanu Bhowmick</b> Amrita Vishwavidyapeetham, Coimbatore, India
15:10-15:25 h	IL:	Sustainable Plastic Material Development - Biodegradable Plastics <b>Sunil Dhamaniya</b> Reliance Industries Limited, Mumbai, India

Session <b>Student Conclave   Springer Oral Contest</b>	
Chairs: Rama Shanker Verma, Yoshimoto Keitaro & Yashveer Singh	
<b>Venue: Hall III</b>	
Time	Title/Author
14:00-14:10 h	Silver Nanoparticles Trimmed Polyaniline-TiO <sub>2</sub> Nanocomposite for Bone Tissue Engineering <b>Agilan Perumal</b> Anna University, Chennai, India
14:10-14:20 h	Development of an Analgesic Nanoconjugate for Pain Management <b>Surabhi Singh</b> INMAS, DRDO, Gautam Budh Nagar, India
14:20-14:30 h	Biodegradable Chitosan-Starch Nanocomposite Membranes with Excellent Antimicrobial Properties Derived from Modified Cellulose from Wheat Straw <b>Preeti</b> Punjab University, Chandigarh, India
14:30-14:40 h	Epoxy Polydimethylsiloxane Zinc Oxide Nanocomposite Coatings for Antifouling Applications <b>Shatakshi Verma</b> Central Institute of Plastics Engineering & Technology, Chennai, India

Session Student Conclave   Springer Oral Contest	
Chairs: Rama Shanker Verma, Yoshimoto Keitaro & Yashveer Singh	
Venue: Hall III	
Time	Title/Author
14:40-14:50 h	Promotion of Electroactive Crystalline Phase in Talc/ Poly(Vinylidene Fluoride) (PVDF) Based Nanofibrous Webs <b>Sawan Shetty</b> National Institute of Technology Karnataka, Surathkal, Mangaluru, India
14:50-15:00 h	Preparation And Characterization of 52S4.6 Bio-Active Glass Reinforced Antheraea Mylitta (A. Mylitta) Silk Fibroin Fiber and Chitosan Scaffolds for Articular Cartilage Regeneration <b>Sambit Ray</b> National Institute of Technology, Rourkela, India
15:00-15:10 h	Cytotoxic, Antimicrobial And Antioxidant Activities of Bimetallic Lanthanum And Cobalt Complexes <b>Swathi K R</b> Bangalore University, Bengaluru, India
15:10-15:20 h	Thermoresponsive Polymer Nanogels for Sustained Release of Bevacizumab Towards Efficient Treatment of Diabetic Macular Edema <b>Namitha K</b> Yenepoya (Deemed to be University), Mangalore, India

<p><b>Poster Session &amp; Tea</b> Chair: G S Chauhan Time: 15:30-17:30 h</p>	
<p><b>APA Distinguished Award Plenary Session</b> Chairs : Jöns Hilborn &amp; Bhuvanesh Gupta <b>PLENARY TALK</b> : Laura Teodori, ENEA, Italy Tissue Engineering Between Click Chemistry and Green Chemistry Time: 17:30-18:30 h</p>	
<p><b>Cruise Dinner</b> Time: 18:30- Onwards</p>	

## Day 2, Thursday, 17 October, 2019

### REGISTRATION

**Venue: Mandovi Hall (Pre Function Area)**

Time: 08:00 h

Chairs: Seeram Ramakrishna & Didier Letourneur

**PLENARY TALK IV: Joëlle Amédée**, University of Bordeaux, France

Polysaccharides-Based Composite Polymers for Bone Tissue Engineering: From Cell Responses to Preclinical Studies for Oral Surgery Applications

**Time:** 09:15-09:55 h

**PLENARY TALK V: Harpal Singh**, IIT Delhi, India

Cancer Stem Cell Inhibitor Encapsulated Polymeric Nanoparticles for Cancer Therapy

**Time:** 09:55-10:35 h

### Tea

Time : 10:35-11:00 h

### Session Polymers for Advanced Technology

Chairs : Atsushi Suzuki & Abdul Kader

**Venue: Hall I**

Time	Lecture	Title/Author
11:00-11:25 h	KN:	Functional Polymer Sponges from Short Electrospun Fibers <b>Andreas Greiner</b> Universität Bayreuth, Bayreuth, Germany
11:25-11:45 h	IL:	Synthesis of Conducting Polymer and its Application in Energy Storage Devices <b>Amar Prasad Yadav</b> Chinese Academy of Sciences, Shenyang, China
11:45-12:05 h	IL:	Synthesis of Eco-Friendly Polyurethane Foam Using Non HCFC and Low GWP Blowing Agents <b>Smita Mohanty</b> CIPET, LARPM, Bhubaneswar, India
12:05-12:15 h	OL:	Cellulose Acetate/Gelatin/Polyethylene Glycol Blend: Its Preparation, Characterization and Biodegradation <b>Prem Lata Meena</b> University of Delhi, Delhi, India

12:15-12:25 h	OL:	Synthesis and Characterization of UV Stable Polyurethane Coatings Using Titania Sol Nanoparticles <b>Sonalee Das</b> CIPET:SARP-APDDRL, Bengaluru, India
12:25-12:35 h	OL:	Polypyrrole Coated Functional Adsorbents for Removal of Heavy Metals from Waste Water <b>Subhankar Maity</b> Uttar Pradesh Textile Technology Institute, Kanpur, India

Session Biomaterials & Bioengineering		
Chairs: Pranee Phinyocheep & Mukesh Singh		Venue: Hall II
Time	Lecture	Title/Author
11:00-11:25 h	KN:	Rapidly Neutralizable and High Anticoagulant DNA Aptamer Discovered by Mace Selex <b>Keitaro Yoshimoto</b> The University of Tokyo, Tokyo, Japan
11:25-11:45 h	IL:	Design and Synthesis of Double Network (DN) and Double Crosslinked (DC) Hydrogels for Biomedical Applications <b>Manohar V Badiger</b> CSIR- National Chemical Laboratory, Pune, India
11:45-12:05 h	IL:	Bioengineering Human Tissues & Organs: The Way Forward <b>Biman B Mandal</b> (APA Young Scientist Award Lecture) Indian Institute of Technology Guwahati, Guwahati, India
12:05-12:15 h	OL:	Development and Evaluation of Mucodhesive Alginate Microspheres of Nitrendipine for Nasal Delivery <b>Sanjay B. Patil</b> SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad, India
12:15-12:25 h	OL:	Influence of Porosity to Enhance the Biocompatibility of Biopolymer <b>Sujoy Kumar Dey</b> Sikkim Manipal University, Majitar, India
12:25-12:35 h	OL:	Evaluation of Gelatin Methacrylamide as Tissue Specific Bioink <b>Shiny Velayudhan</b> Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, India



Session      Microsymposium on Tissue Engineering		
Chairs: Laura Teodori & Harpal Singh		Venue: Hall III
Time	Lecture	Title/Author
11:00-11:25 h	KN:	Synthesis and Fabrication of NovelInquinone-Based Chromenopyrazole Antioxidant-Laden Silk Fibroin Nanofibers Scaffold for Tissue Engineering Applications <b>Rama Shanker Verma</b> Indian Institute of Technology Madras, Chennai, India
11:25-11:45 h	IL:	Novel Combinations of Cell Derived Matrices & Synthetic Polymer Substrates for Embryonic Stem Cell Culture & Maintenance <b>Manasa Nune</b> Manipal Academy of Higher Education, Karnataka, India
11:45-12:05 h	IL:	Natural and Assisted Wound Healing Effect of Polymers on Tissue <b>Amlan Gupta</b> Sikkim Manipal Institute of Medical Sciences, Gangtok, India
12:05-12:25 h	IL:	Decellularized Small Intestine Submucosa of Goat - A Novel Biomaterial for Tissue Engineering <b>Narayan Chandra Mishra</b> Indian Institute of Technology Roorkee, Saharanpur, India
12:25-12:35 h	OL:	Biomimetic Fibrous Scaffold Production Through Solution Blow Spinning for Tissue Engineering Applications <b>Singh Divakar B Kumar</b> Indian Institute of Technology - Banaras Hindu University, Varanasi, India
<b>Lunch</b> Time: 13:00-14:00 h		

Session <b>Polymers for Advanced Technology</b>		
Chairs: V K Gupta & Smita Mohanty		<b>Venue: Hall I</b>
Time	Lecture	Title/Author
14:00-14:25 h	KN:	Development of Polymeric Materials for Antimicrobial Application <b>Pranee Phinyocheep</b> Mahidol University, Bangkok, Thailand
14:25-14:45 h	IL:	Wrinkling Instability Induced by Peeling of Thin Films from Soft Adherend <b>Atsushi Suzuki</b> Yokohama National University, Yokohama, Japan
14:45-15:05 h	IL:	Metal Nanoparticles: Agent for Synergistic Effect on Food Packaging Polymer Films <b>Satyendra Mishra</b> Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, India
15:05-15:15 h	OL:	Separation of Kaolin Using Chitosan Graft Co-Polymer Flocculant <b>Suresha P R</b> CSIR- National Chemical Laboratory, Pune, India
15:15-15:25 h	OL:	Borassus Fibers as Nucleating Agent For Polylactic Acid: Effect of Morphology of Cellulose on Crystallization <b>Yogesh N Marathe</b> CSIR- National Chemical Laboratory, Pune, India
15:25-15:35 h	OL:	Smart Electrorheological Materials Synthesis and Characterization <b>Sandeep Kumar</b> DRDO (DMSRDE), Kanpur, India
15:35-15:45 h	OL:	Preparation And Characterization of Interfacial Films for Controlled Release Application Using Spinning Drop Rheometer <b>Manu Vashishtha</b> Dr B R Ambedkar National Institute of Technology, Port Blair, India

Session Nanomaterials & Nanocomposites		
Chairs: Amit Biswas & Biman B. Mandal		Venue: Hall II
Time	Lecture	Title/Author
14:00-14:25 h	KN:	Influence of Thermally Bonded Roving Structure on Various Properties of Bio-Composites <b>Apurba Das</b> Indian Institute of Technology Delhi, New Delhi, India
14:25-14:45 h	IL:	Structural, Morphological and Optical Studies of (2E)-1-(Anthracen-9-Yl)-3-(4-Nitrophenyl) Prop-2-En-1-One Doped Poly(Methyl Methacrylate) Composite <b>Rajashekhar F. Bhajantri</b> Karnatak University, Dharwad, India
14:45-15:05 h	IL:	Utilization of Waste Lignocellulosic Biomass as a Sustainable Precursor for Polymeric Nanocomposites for Various Applications <b>Anupama Sharma</b> Punjab University, Chandigarh, India
15:05-15:15 h	OL:	Surface Plasmon Mediated Degradation of Methylene Blue Using Ag Decorated Silica Nanoparticles <b>Siddharth Sirohi</b> Bhaskaracharya College of Applied Sciences, New Delhi, India
15:15-15:25 h	OL:	Synthesis and Characterization of Nanocomposite Thin Films with Different Concentration of Silver Nanoparticles on The Poly (Vinylidene Fluoride) Polymer (PVDF) <b>Siddhartha</b> Acharya Narendra Dev College, New Delhi, India
15:25-15:35 h	OL:	Variation on Morphology and Patterns of Thin Polymeric Film with Graphene Particles <b>Surita Basu</b> Indian Institute of Technology Delhi, New Delhi, India
15:35-15:45 h	OL:	Self-Assembly of Functionalized Nanoparticles in Confined Block Copolymers <b>Supriya Gupta</b> Indian Institute of Technology Delhi, New Delhi, India

Session      Functional Materials & Nanogels		
Chairs: Amlan Gupta & Andreas Greiner		Venue: Hall III
Time	Lecture	Title/Author
14:00-14:25 h	KN:	Functionalization of Sanitary Napkin by Marigold Flower Extract <b>Mukesh Kumar Singh</b> GCTI (UPTTI), Kanpur, India
14:25-14:45 h	IL:	Stimulus Responsive Track Etched Membranes for Biomedical Applications <b>Sunita Rattan</b> Amity University, Noida, India
14:45-15:05 h	IL:	Hydrazone Linkage-Based Biodegradable Polymeric Hydrogels for Intratumoral Delivery of a Chemotherapeutic Agent, Doxorubicin <b>Yashveer Singh</b> Indian Institute of Technology Ropar, Rupnagar, India
15:05-15:15 h	OL:	Synthesis and Characterization of IPN Hydrogels Composed of Gelatin and Polyvinyl Pyrrolidone <b>Mohanan A</b> Nehru Arts & Science College, Kasaragod, India
15:15-15:25 h	OL:	Functional Designing of Tragacanth Gum Nanogels for Anticancer Drug Delivery <b>Chetna Verma</b> Indian Institute of Technology Delhi, New Delhi, India
15:25-15:35 h	OL:	Preparation and Characterization of Polyaniline and Polythiophene Based Copolymer <b>Susmita Dey Sadhu</b> Bhaskaracharya College of Applied Sciences, New Delhi, India
15:35-15:45 h	OL:	Effect of pH Variation on Adsorption of Heavy Metal Ions & Dyes By Poly (Acrylic Acid/Sodium Alginate/Sodium Humate) Based Adsorbent <b>Reena Singhal</b> HBTU, Kanpur, India
<b>Poster Session &amp; Tea</b> Chair: Sunita Rattan <b>Time: 15:45-17:45 h</b>		
<b>APA &amp; STERMI General Body meeting</b> <b>Time: 17:45-18:45 h</b>		

## Day 3, Friday, 18 October, 2019

### Session Innovative Fibres and Fibrous Material

Chairs: Apurba Das & Satyendra Mishra

Venue: Hall I

Time	Lecture	Title/Author
09:00-09:20 h	IL:	A Strategy for Assembling the Multilayer Polymeric Nanofibers on Nonwoven Fabric with Controlled Porosity <b>Jitendra Pratap Singh</b> Uttar Pradesh Textile Technology Institute, Kanpur, India
09:20-09:40 h	IL:	Performance of Micro Encapsulated Aloe vera Treated Textiles for Activewears <b>Shubham Joshi</b> Uttar Pradesh Textile Technology Institute, Kanpur, India
09:40-09:50 h	OL:	Effect of Enzyme Treated Jute Fibre on Structure, Morphology and Thermal Properties of PP <b>Purnima D</b> Birla Institute of Technology and Science -Pilani, Hyderabad, India
09:50-10:00 h	OL:	Dual Functional Biomimicked Membrane with Fish-Scale-Inspired Wettability Capable of Performing Under Severe Settings <b>Upama Baruah</b> Indian Institute of Technology Guwahati, Guwahati, India
10:00-10:10 h	OL:	Design Textiles to Aid Night Time Navigation for the Elderly Using Photoluminescent Pigment Prints <b>Richa Sharma</b> National Institute of Fashion Technology, Bengaluru, India

Session Smart Biomaterials and Drug Delivery		
Chairs: Seema Agarwal & Sunita Rattan		Venue: Hall II
Time	Lecture	Title/Author
09:00-09:20 h	IL:	Polymer Nano-Composite of LLDPE and Waste Egg Shell Biomaterial Based Hydroxyapatite Decorated by Carbon Nano-Tubes and Graphene Nano-Sheets <b>Vikas V Gite</b> Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, India
09:20-09:40 h	IL:	Macrophage-Derived Biomimetic Microparticles Packed Full of Prunus Spinosa L. (Rosaceae) Extract to Treat Wound Healing <b>Sofia Coppari</b> University Of Urbino Carlo Bo, Urbino, Italy
09:40-09:50 h	OL:	Fabrication and Characterization of Electrospun Cellulose Ether-PVA Nanofiber Mat Loaded with Halloysite Nanotubes and Antibiotics for Enhanced Wound Healing Applications <b>Ashwini Wali</b> CSIR- National Chemical Laboratory, Pune, India
09:50-10:00 h	OL:	Self-Healable Vitrimer/Graphene Oxide Nanocomposites <b>Sravendra Rana</b> University of Petroleum and Energy Studies (UPES), Dehradun, India
10:00-10:10 h	OL:	Diversification of Textile: Conductive Textile <b>Shiv Nandan Barnwal</b> Uttar Pradesh Textile Technology Institute, Kanpur, India

Hall III	
09:00-10:10 h	Wisdom Contest
10:10-10:20 h	Break

Session      Miscellaneous Materials		
Chairs: J K Rathour & Amar Yadav		Venue: Hall I
Time	Lecture	Title/Author
10:20-10:40 h	IL:	Non-Flammable and High Barrier Polymer Electrospun Membranes <b>Seema Agarwal</b> Universität Bayreuth, Bayreuth, Germany
10:40-11:00 h	IL:	Fabrication of the PAN/Ag-gC <sub>3</sub> N <sub>4</sub> Nanofibers towards the Visible Light Mediated Green and Sustainable Approach for the Selective Oxidation of Styrene, -CH <sub>2</sub> Bonded Molecule and Benzene <b>Navinchandra G. Shimpi</b> University of Mumbai, Mumbai, India
11:00-11:10 h	OL:	Esterified Superhydrophobic Nanocellulose Based Aerogel for Oil Spill Treatment <b>Monika Chhajed</b> Indian Institute of Technology Roorkee, Saharanpur, India
11:10-11:20 h	OL:	Physico-Chemical Modifications Induced by 70 MeV Carbon Ions in Alpha Phased polyvinylidene Fluoride (Alpha PVDF) –Ag(NPs) Composites <b>Dinesh Kumar</b> Acharya Narendra Dev College, New Delhi, India
11:20-11:30 h	OL:	Effect of Strain on Conductivity of High Lycra Yarn Fabric <b>Madan Lal Regar</b> Uttar Pradesh Textile Technology Institute, Kanpur, India



Session      Polymers for Advanced Technology		
Chairs: Narayan C Mishra & Anupama Sharma		Venue: Hall II
Time	Lecture	Title/Author
10:20-10:40 h	IL:	Preparation of Polyaniline Coating on Mild Steel Surface and Study of its Corrosion Inhibition <b>Dipak Kumar Gupta</b> CSRI-CSMCRI, Bhavnagar, India
10:40-11:00 h	IL:	Effect of E- Beam Irradiation on Mechanical, Optical and Barrier Properties of Polymeric Packaging Films <b>Nilay Kanti Pramanik</b> Indian Institute of Packaging, Mumbai, India
11:00-11:10 h	OL:	Effect of Potassium Hydrogen Pthalate on the Electropolymerization of Pyrrole onto Mild Steel <b>Sanjay Singh</b> CSIR- Central Salt and Marine Chemicals Research Institute, Bhavnagar, India
11:10-11:20 h	OL:	Filter Efficacy of Bamboo Charcoal Polyester Non-Woven Fabric <b>Akhtarul Islam Amjad</b> Uttar Pradesh Textile Technology Institute, Kanpur, India
11:20-11:30 h	OL:	Synthesis and Characterization of Ultrahigh Molecular Weight Polyolefins <b>Parthiv Trivedi</b> Reliance Industries Limited, Navi Mumbai, India
Tea Time: 11:30-11:45 h		
Valedictory Function Felicitation Function Award Ceremony Time: 11:45-13:00 h		
Lunch Time: 13:00-14:00 h		
End of the event !		

## POSTER PRESENTATION

Chair: G S Chauhan

**Day 1, Wednesday, 16 October, 2019**

Time: 15:30-17:30 h

Abs No	Title	Presenting Author	Institution	City
4	Functionalization of Polyurethane for Antimicrobial Urinary Catheter	Manali Somani	Indian Institute of Technology Delhi	New Delhi
5	Preparation of Sodium Alginate/Carboxymethyl Cellulose Hydrogel System for Biomedical Application	Ankita Sharma	Indian Institute of Technology Delhi	New Delhi
7	Development of Carrageenan-Based Hydrogel System for Wound Healing	Pratibha Singh	Indian Institute of Technology Delhi	New Delhi
11	Structural and Magnetic Properties Studies on PANI/Co-Cr Fe <sub>2</sub> O <sub>4</sub> Nanocomposites	Shivasagar K. R.	Shridevi Post Graduate Centre, Tumkur	Tumkur
24	A View on Synthesis and Characterization of Azo and Non-Azo Based Polymers for NLO Application	Kolli Balakrishna	GITAM University	Hyderabad
36	A Positive Approach on Corrosion Behavior of Fluoride Conversion Coating	Saranya K	Anna University	Chennai
46	Designing a Step-Wise Approach to Modulate the Wetting Characteristics of Nonwoven Materials Using ZnO Nanorods	Sumit Sharma	Indian Institute of Technology Delhi	New Delhi
49	Promotion of Electroactive Crystalline Phase in Talc/Poly(Vinylidene Fluoride) (PVDF) Based Nanofibrous Webs	Sawan Shetty	NITK Surathkal	Mangaluru
51	Exploring the Application of a Bio-Based Polymer from Azospirillum Lipoferum in Nano Drug Delivery	Puja Kumari	Indian Institute of Technology Madras	Chennai
65	Modeling Liver Microarchitecture in Vitro Using 3D Bioprinting for Personalized Drug Toxicity and Screening Applications	G. Janani	Indian Institute of Technology Guwahati	Guwahati
68	Surface Characterization of Chitosan/Silica Coated on AZ31 Magnesium Alloy for Biomedical Application	Kalaiyarsan Madhu	Anna University	Chennai
69	Silver Nanoparticles Trimmed Polyaniline-TiO <sub>2</sub> Nanocomposite for Bone Tissue Engineering	Agilan Perumal	Anna University	Chennai
76	Synthesis and Characterization of Nanohybrid Based UV And IR Resistant Coating for Automobile Applications	Jyotirmayee Kalser	LARPM:CIPET	Bhubaneswar
82	Synthesis and Characterization of Conjugated Terpolymer for Solar Cell Application	Pranshula Panigrahi	CIPET	Bhubaneswar

Abs No	Title	Presenting Author	Institution	City
89	Radiation Grafted Polymer Adsorbents for Remediation of Pharmaceutical Water Pollutants	Swarnima Rawat	Bhabha Atomic Research Centre	Mumbai
91	In-Situ Synthesis of Nano Silver Inside Chitosan Nano Fibrous Web for Water Filtration	Rahul Gadkari	Indian Institute of Technology Delhi	New Delhi
94	Preparation And Characterization of 52S4.6 Bio-Active Glass Reinforced Antheraea Mylitta (A. Mylitta) Silk Fibroin Fiber and Chitosan Scaffolds for Articular Cartilage Regeneration	Sambit Ray	National Institute of Technology	Rourkela
95	Design and Synthesis of Hydroxyl Functionalized Dendrimer	Shikha	Indian Institute of Technology Delhi	New Delhi
97	Characterization of Stratified Flow of Non-Newtonian Fluid in Narrow Channels	Garima Vishal	Indian Institute of Technology Delhi	New Delhi
98	Interaction of Acetylcholinesterase with Phorate	Shalini Shikha	Indian Institute of Technology Delhi	New Delhi
100	A Self-Powered Human Health Monitoring Based on Ultrasensitive Piezoelectric E-Skin Sensor	Kuntal Maity	Jadavpur University	Kolkata
101	Fully Biobased Polyester Polyols Derived from Renewable Resources Toward Preparation of Polyurethane Coating	Niteen Popat Borane	KBC North Maharashtra University	Jalgaon
104	Adsorptive Removal of Ciprofloxacin from Aqueous Samples Using Zr MOF	Reetu Rani	CSIR CSIO	Chandigarh
110	Flexible and Efficient Piezoelectric Energy Harvester Based on Porous Metal-Organic Framework Incorporated Electrospun Poly(Vinylidene) Fluoride Nanofibers	Krittish Roy	Jadavpur University	Kolkata
123	Effect of Different Crosslinking Agents on the Mechanical Performance and Thermal Stability of Gelatin Tubular Scaffolds	Amandeep Kaur	Indira Gandhi Delhi Technical University for Women	New Delhi
128	Effect of UV Irradiation on 3D Printed PLA Nerve Guided Conduits (NGCs)	Vibha Burman	IGDTUW	Delhi
129	3D Printed Multi Channel PLA Nerve Guidance Conduits (NGCs) for Peripheral Nerve Regeneration	Chhavi Teotia	Indira Gandhi Delhi Technical University for Women	New Delhi
130	Molecularly Imprinted Polymer (MIP) Coated Quantum Dots for the Selective Recognition and Fluorescent Quantification of Pesticides	Dhirendra K. Dhruwe	AcSIR-CSIO	Chandigarh

Abs No	Title	Presenting Author	Institution	City
133	Treatment of Central Airway Obstruction (CAO) Using 3D Printed Airway Stent	Ankita Sharma	Indira Gandhi Delhi Technical University for Women	Faridabad
136	Comparative Study of Morphological and Physio-Chemical Properties of Cellulose Nanocrystals Isolated from Softwood,Hardwood and Non Wood Bio Mass	Chhavi	Indian Institute of Technology Roorkee	Saharanpur
159	Development and Characterization of Biodegradable Polymeric Nanoparticles for Delivery of Salinomycin as Anti-Cancer Agent	Mohd Anees	Indian Institute of Technology Delhi	New Delhi
165	Thermoresponsive Polymer Nanogels for Sustained Release of Bevacizumab Towards Efficient Treatment of Diabetic Macular Edema	Namitha K	Yenepoya (Deemed To Be University)	Mangalore
194	Pectin Based Herbal Antimicrobial Finishing of Polypropylene Fabric	Rohini Verma	Indian Institute of Technology Delhi	New Delhi
195	Preparation, Characterization and Antimicrobial Studies of Curcumin Based Bionanocomposites	Deeksha Mishra	Uttar Pradesh Textile Technology Institute	New Delhi
217	Design and Synthesis of Glycopolymer Based Hydrogels	Shubhra Goel	Indian Institute of Technology Delhi	New Delhi
220	Integration of Photosensitizer to Develop Core-Shell Upconversion Nanoparticles for Application in photodynamic Therapy	Tina Joshi	Indian Institute of Technology Delhi	New Delhi
221	Compatibilized Blends of Polypropylene and Polyethyleneimine for their Potential Application in Carbon Dioxide Sequestration.	Aanchal Jaisingh	Indian Institute of Technology Delhi	New Delhi

# POSTER PRESENTATION

Chair: Sunita Rattan

**Day 2, Thursday, 17 October, 2019**

Time: 15:45-17:45 h

Abs No	Title	Presenting Author	Institution	City
85	Introduction of TiO <sub>2</sub> Nano Particles in Bio-Based Polyurethane Coating on a Glass Substrate	Malaya Ranjan Parida	CIPET	Bhubaneswar
96	Conjugated Terpolymer as a Barrier Layer to Suppress Back Electron Transfer and Enhance Efficiency in DSSC	Manoj Kumar Mallick	CIPET	Bhubaneswar
115	Design and Development of Polymeric Nanocomposite Membrane Using Silver Coated Activated Carbon	Shanu Prabhakar	Uttar Pradesh Textile Technology Institute	Kanpur
116	Developed Fe <sub>3</sub> O <sub>4</sub> -Stearic Acid Magnetic Nanoparticles Incorporated into Neem Oil Based Polyesteramide Nanofiber for Cancer Drug Delivery	Pratiksh Patel	National Chemical Laboratory	Pune
124	Low Cost Paper-Based Device for Pesticide Detection	Pooja Sharma	CSIO	Chandigarh
131	A Novel Combinatorial Approach of Curcumin Nanoencapsulates with Cited 1 shRNA Against Colorectal Cancer	Amarnath Singam	CSIR- National Chemical Laboratory	Pune
151	Alginate-Derived Self-Healing Double Network Hydrogels for Enhanced Bio-Mineralisation	Arun Torris	CSIR - National Chemical Laboratory	Pune
152	Sulfopropylated Poly(Vinyl Alcohol) as Polymer Gel Electrolyte for Application in Energy Storage	Ajay Bhaskar Khairnar	CSIR- National Chemical Laboratory	Pune
153	Morphological Evaluation of Ultralow Density Microcellular foam Using Solid State Batch Foaming and Water as Co-Blowing Agent	Rupesh Santoshlal Dugad	CIPET:SARP-APDDRL	Bengaluru
156	Development of Multi-Modal Microcellular ABS Foams Using Step-Wise Depressurization Foaming Process	G. Radhakrishna	Central Institute of Plastics Engineering & Technology	Bengaluru
167	Conducting Polypeptide Based Biosensor for the Electrochemical Detection of Biomolecules.	Supriya Jain	Yenepoya (Deemed To Be University)	Mangalore
171	Effect of Reinforcement Ply Stacking Pattern On Performance of Textile Reinforced Polymer Composite	Ashraf Nawaz Khan	Indian Institute of Technology Delhi	New Delhi
200	Biodegradable Chitosan-Starch Nanocomposite Membranes with Excellent Antimicrobial Properties Derived from Modified Cellulose from Wheat Straw	Preeti	Punjab University	Chandigarh
201	Green Flexible Biodegradable Cellulose Acetate Nanocomposite Films as Substrates to Fabricate Flexible Perovskite Solar Cells	Sharmistha	Punjab University	Chandigarh

Abs No	Title	Presenting Author	Institution	City
202	Extraction of Cellulose Nanofibers from Waste Hemp (Cannabis Sativa) and Further Modification for Removal of Uranium Ions from Waste Water	Manpreet Kaur	Punjab University	Chandigarh
206	Synthesis, Physico-Chemical and Dynamic DSC Curing Kinetics Studies of Unsaturated Polyester Polyol of Multifunctional Epoxy Resin Containing S-Triazine Ring and its Jute/Glass Composites	Chirag B. Patel	Krantiguru Shyamji Krishna Verma Kachchh University	Bhuj
231	Large Scale Production of Bacterial Cellulose for Medical Textile Applications	Ashutosh Pandey	Uttar Pradesh Textile Technology Institute	Kanpur
232	Cytotoxic, Antimicrobial And Antioxidant Activities Of Bimetallic Lanthanum And Cobalt Complexes	Swathi K R	Bangalore University	Bengaluru
233	Fabrication of 3D Printed Monolith Scaffold for Meniscus Tissue Regeneration	Akriti Sharma	Indian Institute of Technology Madras	Chennai
238	Medical Application of Microbial Cellulose and BC-Based Biomaterials	Brijesh Kumar	Uttar Pradesh Textile Technology Institute	Kanpur
240	Epoxy Polydimethylsiloxane Zinc Oxide Nanocomposite Coatings for Antifouling Applications	Shatakshi Verma	Central Institute of Plastics Engineering & Technology	Chennai
242	Metal-Free Semi-Aromatic Polyester Nanomaterial: A Novel Tumor Targeting Drug Delivery Vehicle for Potential Clinical Application	Siva Chander Chabattula	Indian Institute of Technology Madras	Chennai
246	Preparation and Antibacterial Activities of Chitosan Based Silver Nanoparticles Embedded Sodium Alginate Nanofibers for Liver Tissue Regeneration	Manikandan G	Central Institute of Plastics Engineering & Technology	Chennai
247	Design Analysis and Fabrication of Light Weight Hybrid Polymer Composite Sandwich Panels for Automobile Application	Ravishankar	SARP-ARSTPS	Madurai
249	Design and Analysis of Hybrid Composite Laminates Reinforced with Glass/Carbon/Basalt Woven Fabrics for Lightweight Structural Applications	Jeevi G	SARP-ARSTPS, CIPET	Chennai
251	Flexible Energy Storage Electronics for Wearable E-Textile Applications	Shuchita Tomar	Uttar Pradesh Textile Technology Institute	Kanpur
252	Experimental Investigation on the Mechanical and Delamination Strength of Inconel Particulate Filler Reinforced GFRP Composite for Wind Turbine Application	R Karthikeyan	CIPET SARP ARSTPS	Chennai
258	Curcumin Loaded Silver Nanoparticles Incorporated Chitosan Scaffolds: Fabrication and in Vivo Wound Healing Studies	Anoop Narayanan V.	NGSM Institute of Pharmaceutical Sciences	Mangalore



Abs No	Title	Presenting Author	Institution	City
259	Polymer in Hand Knotted Carpets	Rohit Kumar	Uttar Pradesh Textile Technology Institute	Kanpur
261	Diversification of Textile: Conductive Textile	Shiv Nandan Barnwal	Uttar Pradesh Textile Technology Institute	Kanpur
262	Antimicrobial Finish by Golden Rain Tree	Pradeep Kumar Rout	Uttar Pradesh Textile Technology Institute	Kanpur
263	A Reveiw on Development of Herbal Garment	Gaurav Sonker	Uttar Pradesh Textile Technology Institute	Kanpur
266	Electrochemical & Photophysical Properties of Binary Blends Composed of Conjugated and Non-Conjugated Polymers	Sangeetha A	SARP- ARSTPS, CIPET	Chennai
272	Development of Suitable Animal Model for Acute Lung Injury Assay	Divya Tripathi	INMAS, DRDO	Delhi
281	Composite Scaffold Carrying Skin Regenerating Peptides for Enhanced Wound Healing	Nanditha Chundayil Kalathil	Rajiv Gandhi Centre for Biotechnology	Thiruvananthapuram
283	A Suitability Study of Manganese Substituted Bioactive Glass for its Potential Application in Hard Tissue Repair	Manikandan S	Bharathiar University	Coimbatore
284	Improved Electrochemical Corrosion Resistance and Mechanical Behavior of Calcium Deficient Apatite/Chitosan Reinforced MWCNT Composite Coating on Surgical Grade 316LSS for Biomedical Applications	Logesh M	Bharathiar University	Coimbatore
285	A Novel Composite of YSZ-BCP/Chitosan Coated on Surgical Grade 316L SS for Biomedical Application	Marimuthu A	Bharathiar University	Coimbatore

# LIST OF DELEGATES

SI No	Name	Institute	City	Country
1	Aanchal Jaisingh	Indian Institute of Technology Delhi	New Delhi	India
2	Abdul Kader	CIPET- APDDRL	Bangalore	India
3	Agilan Perumal	Anna University	Chennai	India
4	Ajay B Khairnar	CSIR- National Chemical Laboratory	Pune	India
5	Ajit Sapre	Reliance Industries Limited	Navi Mumbai	India
6	Akhtarul I Amjad	Uttar Pradesh Textile Technology Institute	Kanpur	India
7	Akriti Sharma	Indian Institute of Technology Madras	Chennai	India
8	Amandeep Kaur	Indira Gandhi Delhi Technical University for Women	New Delhi	India
9	Amar Prasad Yadav	Chinese Academy of Sciences	Shenyang	China
10	Amarnath Singam	CSIR- National Chemical Laboratory	Pune	India
11	Amédée Joëlle	INSERM	Bordeaux	France
12	Amit Biswas	Hyderabad	Hyderabad	India
13	Amlan Gupta	Sikkim Manipal Institute of Medical Sciences	Gangtok	India
14	Andreas Greiner	Universität Bayreuth	Bayreuth	Germany
15	Ankita Sharma	Indian Institute of Technology Delhi	New Delhi	India
16	Ankita Sharma	Indira Gandhi Delhi Technical University for Women	Faridabad	India
17	Anoop Narayanan V	NGSM Institute of Pharmaceutical Sciences	Mangalore	India
18	Anup K Ghosh	Indian Institute of Technology Delhi	New Delhi	India
19	Anupama Sharma	Punjab University	Chandigarh	India
20	Apurba Das	Indian Institute of Technology Delhi	New Delhi	India
21	Arun Torris	CSIR - National Chemical Laboratory	Pune	India
22	Ashish K Guleria	WIT Dehradun	Dehradun	India
23	Ashraf Nawaz Khan	Indian Institute of Technology Delhi	New Delhi	India
24	Ashutosh Pandey	Uttar Pradesh Textile Technology Institute	Kanpur	India
25	Ashwini Wali	CSIR- National Chemical Laboratory	Pune	India
26	Atsushi Suzuki	Yokohama National University	Yokohama	Japan
27	Balbir Singh Kaith	Dr B R Ambedkar National Institute of Technology	Jalandhar	India
28	Bhuvanesh Gupta	Indian Institute of Technology Delhi	New Delhi	India
29	Biman B Mandal	Indian Institute of Technology Guwahati	Guwahati	India
30	Brijesh Kumar	Uttar Pradesh Textile Technology Institute	Kanpur	India
31	C P Shamra	SCTIMST	Trivandrum	India
32	Chetna Verma	Indian Institute of Technology Delhi	New Delhi	India
33	Chhavi	Indian Institute of Technology Roorkee	Saharanpur	India
34	Chhavi Teotia	Indira Gandhi Delhi Technical University for Women	New Delhi	India

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36	Deeksha Mishra	Uttar Pradesh Textile Technology Institute	New Delhi	India
37	Dhirendra K Dhruwe	AcSIR-CSIO	Chandigarh	India
38	Dinesh Kumar	Acharya Narendra Dev College	New Delhi	India
39	Dipak Kumar Gupta	CSRI-CSMCRI	Bhavnagar	India
40	Divya Tripathi	INMAS, DRDO	Delhi	India
41	G Janani	Indian Institute of Technology Guwahati	Guwahati	India
42	G Radhakrishna	CIPET	Bengaluru	India
43	Garima Vishal	Indian Institute of Technology Delhi	New Delhi	India
44	Gaurav Sonker	Uttar Pradesh Textile Technology Institute	Kanpur	India
45	Harpal Singh	Indian Institute of Technology Delhi	New Delhi	India
46	Himansu S Nanda	IIITDM	Jabalpur	India
47	Jeevi G	SARP-ARSTPS, CIPET	Chennai	India
48	Jitendra P Singh	Uttar Pradesh Textile Technology Institute	Kanpur	India
49	Jons Hilborn	Uppsala University	Uppsala	Sweden
50	Jyotirmayee Kalser	LARPM:CIPET	Bhubaneswar	India
51	Kalaiyaran Madhu	Anna University	Chennai	India
52	Kanchan Mehta	Shriram Institute for Industrial Research	Delhi	India
53	Keitaro Yoshimoto	The University of Tokyo	Tokyo	Japan
54	Kolli Balakrishna	GITAM University	Hyderabad	India
55	Krittish Roy	Jadavpur University	Kolkata	India
56	Kuntal Maity	Jadavpur University	Kolkata	India
57	Laura Teodori	ENEA	Rome	Italy
58	Letourneur Didier	INSERM - Université De Paris	Paris	France
59	Logesh M	Bharathiar University	Coimbatore	India
60	Madan Lal Regar	Uttar Pradesh Textile Technology Institute	Kanpur	India
61	Malaya Ranjan Parida	CIPET	Bhubaneswar	India
62	Manali Somani	Indian Institute of Technology Delhi	New Delhi	India
63	Manasa Nune	Manipal Academy of Higher Education	Karnatka	India
64	Manikandan G	CIPET	Chennai	India
65	Manikandan S	Bharathiar University	Coimbatore	India
66	Manohar V. Badiger	CSIR- National Chemical Laboratory	Pune	India
67	Manoj Kumar Mallick	CIPET	Bhubaneswar	India
68	Manpreet Kaur	Punjab University	Chandigarh	India

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70	Maria Cristina	University of Urbino Carlo Bo	Urbino	Italy
71	Marimuthu A	Bharathiar University	Coimbatore	India
72	Mohanan A	Nehru Arts & Science College, Kanhangad	Kasaragod	India
73	Mohd Anees	Indian Institute of Technology Delhi	New Delhi	India
74	Monika Chhajed	Indian Institute of Technology Roorkee	Saharanpur	India
75	Mukesh Kumar Singh	GCTI (UPTTI)	Kanpur	India
76	Namitha K	Yenepoya (Deemed To Be University)	Mangalore	India
77	Nanditha C Kalathil	Rajiv Gandhi Centre for Biotechnology	Thiruvananthapuram	India
78	Narayan C Mishra	Indian Institute of Technology Roorkee	Saharanpur	India
79	Navinchandra G S	University of Mumbai	Mumbai	India
80	Nilay Kanti Pramanik	Indian Institute of Packaging	Mumbai	India
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126	Shiv Nandan Barnwal	Uttar Pradesh Textile Technology Institute	Kanpur	India
127	Shivasagar K R	Shridevi Post Graduate Centre, Tumkur	Tumkur	India
128	Shubham Joshi	Uttar Pradesh Textile Technology Institute	Kanpur	India
129	Shubhra Goel	Indian Institute of Technology Delhi	New Delhi	India
130	Shuchita Tomar	Uttar Pradesh Textile Technology Institute	Kanpur	India
131	Siddharth	Maharaja Agrasen Institute of Technology	Delhi	India
132	Siddhartha	Acharya Narendra Dev College	New Delhi	India
133	Sidharth Sirohi	Bhaskaracharya College of Applied Sciences	New Delhi	India
134	Singh D B Kumar	Indian Institute of Technology - Banaras Hindu Uni.	Varanasi	India
135	Siva C Chabattula	Indian Institute of Technology Madras	Chennai	India

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137	Sofia Coppari	University Of Urbino Carlo Bo	Urbino	Italy
138	Sonalee Das	CIPET:SARP-APDDRRL	Bengaluru	India
139	Sonu Kumar	Punjab Engineering College	Chandigarh	India
140	Sravendra Rana	University of Petroleum and Energy Studies	Dehradun	India
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148	Supriya Jain	Yenepoya (Deemed To Be University)	Mangalore	India
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150	Suresha P R	CSIR- National Chemical Laboratory	Pune	India
151	Surita Basu	Indian Institute of Technology Delhi	New Delhi	India
152	Susmita Dey Sadhu	Bhaskaracharya College of Applied Sciences	New Delhi	India
153	Swapan Ray	Indian Center for Plastics in the Environment	Mumbai	India
154	Swarnima Rawat	Bhabha Atomic Research Centre	Mumbai	India
155	Swathi K R	Bangalore University	Bengaluru	India
156	Tina Joshi	Indian Institute of Technology Delhi	New Delhi	India
157	Upama Baruah	Indian Institute of Technology Guwahati	Guwahati	India
158	V N Rajasekharan P	Somaiya Vidyavihar University	Mumbai	India
159	Vibha Burman	IGDTUW	Delhi	India
160	Vikas V Gite	Kavayitri Bahinabai Chaudhari North Maharashtra Uni.	Jalgaon	India
161	Virendra Kumar	Bhabha Atomic Research Centre	Mumbai	India
162	Yashveer Singh	Indian Institute of Technology Ropar	Rupnagar	India
163	Yogesh N Marathe	CSIR- National Chemical Laboratory	Pune	India



# Central Institute of Plastics Engineering & Technology (CIPET)

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LARPM Bhubaneswar



ARSTPS Chennai



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Conception



Technology  
Development



Product  
Validation



### Focused Areas & Facilities

Biodegradation Evaluation

Flammability Studies

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Reverse Engineering

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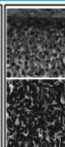
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