

APA Bioforum International e-Conference on Polymeric Biomaterials & Bioengineering

Day -1 | Friday | 27th August, 2021 | Programme



Asian Polymer Association

Inauguration

Moderator - Chetna Verma

Welcome Address

Sunita Rattan, Secretary, APA

Time: 09:30

Introductory Address

BS Kaith, NIT Jalandhar

Time: 09:35

APA Address

Bhuvanesh Gupta, President APA

Time: 09:40

Conference Address

Philippe Roger, UPS, France

Time: 09:40

Inaugural Address

Seeram Ramakrishna, NUS

Time: 09:50

Vote of Thanks

Aditi Sangal, Conference Secretary

Time: 10:20

Session 1 | Biopolymers for Human Healthcare

Chairs: Anup K Ghosh (IITD, India & Amlan Gupta (SMIMS, India)

Moderator - Chetna Verma

Time

Lecture Title/Author

10:30-11:00 PL 1: Biomaterials made from extracellular matrix components can promote tissue regeneration
Jones Hilborn
University of Uppsala, Sweden

11:00-11:30 PL 2: Design and clinical developments of polysaccharides for molecular imaging and tissue engineering
Didier Letourneur
INSERM, Paris, France

Session 2 | Keynote Talks

Chairs: Ashok Kumar (IITK, India) & J. Hilborn (UU, Sweden)

Moderators - Ankita Sharma & Chetna Verma

Time

Lecture Title/Author

11:40-12:00 KN 1: A Journey from the Synthesis of Functional 2-Trifluoromethacrylate Monomers to their Radical Copolymerizations with Vinylidene Fluoride, and Applications
Bruno Ameduri
Institute Charles Gerhardt, France

12:00-12:20 KN 2: Host Tissue Response to Polymeric Material a Review
Amlan Gupta
Sikkim Manipal Institute Medical Science, India

12:20-12:40 KN 3: Bioengineered Human Tissues and Organs: The Way Forward
Biman B Mandal
Indian Institute of Technology Guwahati (IITG), India

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day -1 | Friday | 27th August, 2021 | Programme

Session 3		Keynote Talks
<i>Chairs: Manohar Badiger (NCL, India) & Sunita Rattan (Amity, India)</i>		<i>Moderators - Pratibha Singh & Vipula</i>
Time	Lecture Title/Author	
11:40-12:00	KN 4: Polymeric Nanovectors Incorporated with Ganciclovir and HSV-tk Encoding Plasmid for Gene-Directed Enzyme Prodrug Therapy Ching-PE <i>University of Idaho, United States</i>	
12:00-12:20	KN 5: Statistical Optimization of Bacterial Cellulose Production by using Jaggery Waste Mukesh K Singh <i>Uttar Pradesh Textile Technology Institute Kanpur, India</i>	
12:20-12:40	KN 6: Preparation of Polysaccharide Cell Scaffolds and Culture of Bone Marrow-derived Mesenchymal Stem Cells Kazutoshi Iijima <i>Yokohama National University, Japan</i>	

Session 4		Keynote Talks
<i>Chairs: R Jayakumar (Amrita, India) & Pankaj Attri (Japan)</i>		<i>Moderators - Manali Somani & Rohini Verma</i>
Time	Lecture Title/Author	
11:40-12:00	KN 7: Smart Nanomaterials for Drug Delivery and Nitric Oxide control WJ Kim <i>Pohang University of Science and Technology, Korea, South</i>	
12:00-12:20	KN 8: Nanocarriers for Drug Delivery to Cure Disease Pralay Maiti <i>Indian Institute of Technology (BHU), India</i>	
12:20-12:40	KN 9: Gene Expression Profiling of 2D vs 3D in Human Adipose Stem Cell during Differentiation J E. Ramirez-Vick <i>Wright State University, United States</i>	

12.50 -14.00 -Lunch Break

Session 5		Functional Polymers & Biopolymers
<i>Chairs: BS. Kaith (NITJ, India) & Mukesh K Singh (UPTTI, India)</i>		<i>Moderators - Ankita Sharma & Chetna Verma</i>
Time	Lecture Title/Author	
14:00-14:15	IL: Biopolymeric Adsorbents from Waste Lignocellulosic Biomass for Removal of Heavy Metal ions and other Pollutants from Groundwater Anupama Sharma <i>Panjab University, India</i>	
14:15-14:30	IL: Bacterial Cellulose based Drug Delivery System for Dual Mode Drug Release Mudrika Khandelwal <i>IIT Hyderabad, India</i>	
14:30-14:45	IL: Samrat Mukhopadhyay <i>IIT Delhi, India</i>	
14:45-15:00	IL: Chondrogenesis of Mesenchymal Stem cells using Electrospinning Nasim Nosoudi <i>Marshall University, United States</i>	

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day -1 | Friday | 27th August, 2021 | Programme

15:00-15:10	OL:	Development of Sulfur based High refractive Index Polymer for Ophthalmic Applications Mohit Kumar Sharma <i>Shriram Institute for Industrial Research, Delhi, India</i>
15:10-15:20	OL:	A Study of Activity, Kinetics and Reusability of Immobilized Lipase in Hydrolytic Reactions and Application in Esterification Reactions S.S. Thakur <i>Rajiv Gandhi Memorial Govt. College Joginder Nagar / HPU Shmla, Shimla</i>
15:20-15:30	OL:	Polymers in Biomedical Engineering Applications for 3D Printing Nimish Shah <i>Nirma University, India</i>
15:30-15:40	OL:	Purification of Magnesium and Synthesis of its Alloys containing Stoichiometric and Non-Stoichiometric bone like Bioactive nano-sized Hydroxyapatite for Bone regeneration Shaikh Shazia <i>IIT Kanpur, India</i>

Session 6 | Targeted Drug delivery

Chairs: WJ Kim (Postech, Korea) & Poonam Negi (SU, India)

Moderators - Pratibha Singh and Vipula

Time	Lecture Title/Author
14:00-14:15	IL: Polymeric Hydrogels and Self-Assembled Peptide Gels for Antibacterial and Drug Delivery Applications Yashveer Singh <i>Indian Institute of Technology Ropar, India</i>
14:15-14:30	IL: Biopolymers as Potential Materials for Development of Greener and Sustainable Solutions for Environmental Remediation Dheeraj Sud <i>Sant Longowal Institute of Engineering and Technology, India</i>
14:30-14:45	IL: Advanced Functional Nanobiomaterials Derived from Natural Resources for Biomedical and Peripherals Applications Archana Luximon <i>CBBR, University of Mauritius, Mauritius</i>
14:45-15:00	IL: ZnO-rGO Nanocomposite based Enzymatic Biosensor for Ultrasensitive Detection of Dopamine SP Singh <i>CSIR-National Physical Laboratory, India</i>
15:00-15:10	OL: Effect of HPMCK15M Concentration on Gelation and Drug Release Profile of Soy-oleohydrogel Hybrids Dipanjana Ash <i>BCDA College of Pharmacy & Technology, India</i>
15:10-15:20	OL: Role of Natural Polymer as Carrier System for Targeting Cognitive Disorders Bhavna <i>DIT University, India</i>
15:20-15:30	OL: Development of Composite Hydrogel for Drug Delivery Application Sapna Sethi <i>DAV University Jalandhar, India</i>
15:30-15:40	OL: An Initial Report on the Effect of Anionic Charge of Gelatin Nano Drug Carrier on Stomatal Cells Shamayita Patra <i>Shri Vaishnav Institute of Textile Technology, SVVV, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day -1 | Friday | 27th August, 2021 | Programme

Session 7		Biomaterials & Implants	
<i>Chairs: Biman Mandal (IITG, India) & Kazutoshi Iijima (Japan) Moderators - Manali Somani & Rohini Verma</i>			
Time		Lecture Title/Author	
14:00-14:15	IL:	Cell Behavior Enhancement by Collagen/Heparin Layered Coatings Jorge Almodovar <i>University of Arkansas, United States</i>	
14:15-14:30	IL:	Development of Sugar-Based Multifunctional Nano-Carriers for Gene therapy Applications Rohidas Arote <i>Seoul National University, Korea</i>	
14:30-14:45	IL:	Comparative Study on the Decontamination of water using Non-Thermal Atmospheric Pressure Plasma and Gamma Irradiation Pankaj Attri <i>Kyushu University, Japan</i>	
14:45-15:00	IL:	Itaconamide Nylon having Photo-Triggered Hydrolysis aiming to Biodegradable Plastics in Marine Environment T Kaneko <i>Japan Adv Inst of Sci & Tech, Japan</i>	
15.00-15.10	OL:	Polyvinyl Alcohol based Functional Nanogels for the Bioactive Finishing of Cotton Fabric Chetna Verma <i>IIT Delhi, India</i>	
15:10-15:20	OL:	Cerium Oxide-Bioadhesive Nanocomposites for Biomedical Applications Himansu Nanda <i>PDPM IITDM Jabalpur, India</i>	
15:20-15:30	OL:	Analysis of Challenges in 3D Printing Shape Memory Polymer (SMP) in Medical Applications Savita Verma <i>Galgotias College of Engineering & Technology (GCET), Greater Noida, India</i>	
15:30-15:40	OL:	Fabrication of Antimicrobial Textiles with Scoparia dulcis Extract Loaded Chitosan Alginate Nanoparticles Rajalakshmi V <i>DG Vaishnav College of Arts and Science, Chennai, India.</i>	

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day -1 | Friday | 27th August, 2021 | Programme

Session 8		Poster Presentations	
<i>Chairs: Dheeraj Sud (SLIET, India) & Anupama Sharma (PU, India)</i>		<i>Moderators: Ankita Sharma & Chetna Verma</i>	
Time	Title/Author		
15:50-15:55	Colistimethate Sodium Loaded Chitosan Hydrogel for the Treatment of Drug Resistant Gram Negative Bacterial Infections Nivethitha Ashok <i>Amrita Vishwa Vidyapeetham, India</i>		
15:55-16:00	Fabrication of Thyme Oil loaded Carrageenan-Polyethylene Glycol based Hydrogel Membranes as an Antibacterial Wound Dressing Pratibha Singh <i>IIT Delhi, India</i>		
16:00-16:05	Formaldehyde Gas Sensor based on MoS ₂ /RGO 2D/2D Functional Nanocomposites Jyoti Gupta <i>Amity Institute of Applied Sciences, India</i>		
16:05-16:10	Curcumin - Silver Nanoparticles Loaded Chitosan Scaffolds for Wound Healing Applications Anish John <i>Department of Pharmaceutics , Nitte (Deemed to be University), NGSM Institute of Pharmaceutical Sciences Deralakatte, Mangaluru, India</i>		
16:10-16:15	Bilosomes and Liposomes of Bacopa monnieri Extract for Nootropic Applications: A Comparative Study Anoop Narayanan V <i>Nitte(Deemed to be University), India</i>		
16:15-16:20	Microwave Assisted Synthesis of SLS/Amino Acid Stabilized Quercetin loaded Chitosan Nanoparticles and their Bactericidal Effect against Harmful Bacteria Mansi Kumari <i>Shoolini University, Solan, India</i>		
16:20-16:25	Biocompatible Porous Silica Aerogel Carriers for Efficient Antibacterial Drug Delivery Xie Hui <i>Shenzhen University, China</i>		
16:25-16:30	Improvement of Antimicrobial PLA film with Zinc Oxide and Tannic Acid for Pharmacy Packaging Ambika Yadav <i>Central Institute of Petrochemicals Engineering and Technology, India</i>		
16:30-16:35	Neuroprotective Potential of Ayurvedic Herbal Extracts as Promising Approach for Therapeutic management of Alzheimer Disease Nidhi Gupta <i>CSIR- National Physical Laboratory, India</i>		
16:35-16:40	Chitosan-Grafted-Polybenzoxazine: Fully bio-Based Films Sangeeta Sahu <i>Shiv Nadar University, India</i>		
16:40-16:45	Dual-Z-scheme PANI/Ag ₂ O/Cu ₂ O Heterojunction for Photocatalytic Degradation of Methylene Blue Ankita Guleria <i>Shoolini University of Biotechnology and Management Sciences, Solan, India</i>		
16:45-16:50	Synthesis and Evaluation of Some Physical Properties of Epoxy Methacrylate of Bisphenol-C: a Comparative Study with Commercial Resin Aeropol-7105 Rizwan Ghumara <i>Department of Chemistry, Kadi Sarva Vishvavidyalaya, India</i>		

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day -1 | Friday | 27th August, 2021 | Programme

16:50-16:55	Optimization of Phytoconstituent based Nanoformulation using the BBD Design Suma Saad Jamia Hamdard, India
16:55-17:00	Biopolymer Templated Synthesis of TiO ₂ Nanoparticles for Removal of Organic Contaminant Triclosan Arshpreet Kaur Sant Longowal Institute of Engineering and Technology, India
17:00-17:05	Anti-Cancer Therapeutic Efficacy of Biogenic Synthesis of ZnO Nanoparticles using Annona Muricata Plant leaf extract on Tumor Models Siva Chander Chabattula Indian Institute of Technology Madras, India
17:05-17:10	Investigations on excellent selectivity and performance for removal of anionic azo dyes from wastewater using terephthalaldehyde crosslinked chitosan copolymerized with acrylamide Madhvi Sant Longowal Institute of Engineering and Technology, India
17:10-17:15	Imidazolium based Anion Exchange Membrane for Zinc-Air Batteries Gaje Singh IIT Ropar, India
17:15-17:20	Low Hysteresis Liquid Infused Slippery substrate for drop motility of various solutes Madhu Bala Dr B R Ambedkar National Institute of Technology, Jalandhar, India
17:20-17:25	LDPE Immobilized with Titanium Dioxide and Tannic Acid as a New Generation Antimicrobial Film Satya Deo Mishra Central Institute of Plastic Engineering and Technology, India

Session 9 | Poster Presentations

Chairs: Satyendra Mishra (NMU, India) & MS Alam (JH, India) Moderators: Pratibha Singh & Vipula

Time	Title/Author
15:50-15:55	Solid Phase Reversible Immobilization (SPRI) Beads-Based Detection of Mycobacterium leprae Positive Samples through Isothermal Technique Nupur Garg Jamia Hamdard, India
15:55-16:00	Fabrication of Antimicrobial Dressings Coated with Carboxymethylcellulose Nano Silver Nanogels Ankita Sharma IIT Delhi, India
16:00-16:05	Smart Designing of Functional Silver Nanogel for Infection-Resistant Systems in Human Healthcare Manali Somani IIT Delhi, India
16:05-16:10	Synthesis of nano Magnesium Oxide by Co-precipitation method: Its Effect on HDPE/EVA blend system Biswajit Suar Central Institute of Petrochemicals Engineering & Technology, India
16:10-16:15	Microwave Absorbing Properties of Carbon Nano Tube Polymer Composites Sandesh Jaybhaye B.K. Birla College, Kalyaan, India

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day -1 | Friday | 27th August, 2021 | Programme

16:15-16:20	Hyaluronic Acid Decorated Irinotecan Loaded Lignin Nanoparticles: Synthesis, Optimization and Characterization Lubna Siddiqui <i>Jamia Hamdard, India</i>
16:20-16:25	Rheological Study of Non-Mulberry Silk Fibroin and Gelatin Biopolymer Blend Solutions Priti Dwivedi <i>Delhi Technological University, Delhi, India</i>
16:25-16:30	Screening for Polythene-Degrading Bacteria and in-Vitro Polythene Decomposition in Dumped Soil Area Romana Naaz <i>Jamia Millia Islamia, India</i>
16:30-16:35	Nanoparticle Mediated Delivery of Histone Deacetylase Inhibitor for Breast Cancer Therapy Sachchidanand Tiwari <i>IIT, Delhi, India</i>
16:35-16:40	Preparation of Mosquito repellent, Antibacterial, and UV protective Polyester using a Novel Disperse Dye Ankit Singh <i>IIT, Delhi, India</i>
16:40-16:45	Synthesis and Characterization of Chitosan-Gelatin Composite Hydrogel Incorporated with MgO Nanoparticles Swati Thakur <i>DAV University, India</i>
16:45-16:50	Electrochemical Sensor Surface Modification with NTA for Sensitive Detection of Bovine Brucellosis Madhuri Jadhav <i>ICAR-Indian Veterinary Research Institute Izatnagar, India</i>
16:50-16:55	Optical Analysis of Agro-Waste based Liquid Crystalline Nanocellulose Shiva Singh <i>Indian Institute of Technology Roorkee, Saharanpur Campus, India</i>
16:55-17:00	Nanocellulose-Boron Nitride Nanosheet for Thermal Management Applications Manoj Sathwane <i>IIT Roorkee, India</i>
17:00-17:05	Naphthalimide-Gold-based Nanocomposite for the Ratiometric Detection of Okadaic Acid in Shellfish Amanpreet Singh <i>IIT Ropar, India</i>
17:05-17:10	Preparation and Physicochemical Study of Jute and Glass Composites of Epoxy Resin of (2E, 6E)-bis(4-hydroxybenzylidene)cyclohexanone Chirag Patel <i>Department of Chemistry, Krantiguru Shyamji Krishna Verma Kachchh University, India</i>
17:10-17:15	Development of Laccase Loaded PVA Nanofibers for the Treatment of Textile Effluents Containing azo Dyes Geethadevi rakesh Sharma <i>PSG College of Arts and Science, India</i>
17:15-17:20	Engineering Gold Nanobioconjugates using Hydrophilic Block Polymers for Sensing Bacterial endotoxin Namitha K Preman <i>Yenepoya (Deemed to be University), India</i>
17:20-17:25	Growth and Characterization of PVP Passivated Ag Nanoparticles Mahesh Kumar <i>Davanager University, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

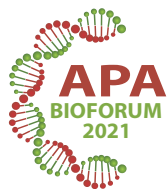
Day -1 | Friday | 27th August, 2021 | Programme

Session 10 Poster Presentations	
Chairs: <i>Sadhika Khullar (NITJ, India) & Susheel Kalia (IMA, India)</i> Moderators: <i>Manali Somani & Rohini Verma</i>	
Time	Title/Author
15:50-15:55	Development and Characterization of Gelatin 3D Scaffolds for Liver Tissue Engineering Applications Kshama <i>Amity University, Noida, India</i>
15:55-16:00	Copper Perchlorate Hexahydrate Catalyzed Synthesis of Biodegradable Polyesters from Lactones Isha Jain <i>SLIET Longowal, India</i>
16:00-16:05	Development of Polycaprolactone Hybrid Nanofiber for Biomedical Applications Vandana Kumari <i>IIT Delhi, India</i>
16:05-16:10	Bio-Synthesis and Characterization of Chitosan-Ag Nano hydrogel for Antibacterial Application Shikha Sharma <i>Jamia Millia Islamia, India</i>
16:10-16:15	Alginate Microspheres Containing Polymer-induced liquid Exfoliated Molybdenum Disulfide for bone Tissue Engineering Pandurang Dalavi <i>Yenepoya Research Centre, Yenepoya (Deemed to be university), India</i>
16:15-16:20	S-scheme based heterojunction Cu ₂ O/WO ₃ for photodegradation of methyl orange under visible light irradiation Prateek Mandyal <i>Shoolini University, Solan, India</i>
16:20-16:25	S-Scheme based CuWO ₄ /NiFe LDH heterojunction for photo degradation of methylene blue dye under visible light irradiation Rohit Sharma <i>Shoolini University of Biotechnology and Management Sciences, India</i>
16:25-16:30	Gold Nanoparticles Film Modified Immuno-electrode for Electrochemical Biosensing of A Disease Specific Biomarkers Kalpana <i>The NorthCap University, India</i>
16:30-16:35	In-Air Preparation of pH and Temperature Responsive Psy/Op-g-poly(AAm)-IA Superabsorbent: Evaluation of Swelling Behaviour Krishna Pandey <i>Dr B R Ambedkar National Institute of Technology (NIT), India</i>
16:35-16:40	Microwave Assisted synthesis of RSM-CCD Optimized Chitosan and Sodium Alginate based Nanocomposite Containing Inclusion Complexes of Amlodipine Besylate for Sustained Drug Delivery Systems Khushbu <i>Dr BR Ambedkar National Institute of Technology, India</i>
16:40-16:45	Microwave Assisted Fabrication of Psy-Ok-g-poly(AAm)-MW and Evaluation of Its Physico-Chemical Properties Poojita <i>Dr B R Ambedkar National Institute of Technology, Jalandhar, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

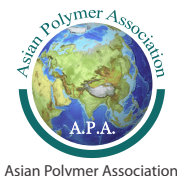
Day -1 | Friday | 27th August, 2021 | Programme

16:45-16:50	Green Synthesis of Silver Nanoparticles using Borago Officinalis Leaves Extract and Screening its Antimicrobial and Antifungal Activity Sanjay Kumavat <i>University Institute of Chemical Technology (UICT), Maharashtra, India</i>
16:50-16:55	Extraction and Characterization of Chitosan from Fish Scales and Its Utilization in PVDF Membrane Production for Wastewater Treatment Amrit Pritam Rout <i>Central Institute of Petrochemicals Engineering & Technology, India</i>
16:55-17:00	Development of Radiation Resistant Elastomeric Coating to Use for Nuclear Applications Nikhita Khurana <i>Shriram Institute for Industrial Research, Delhi, India</i>
17:00-17:05	Diamidoximated Cellulosic Bioadsorbents from Hemp Stalks for Elimination of Uranium (VI) and Textile waste in Aqueous Systems Manpreet Kaur <i>Panjab University, India</i>
17:05-17:10	Polypeptide based Composite Hydrogels for Tissue Engineering Applications Supriya Jain <i>Yenepoya Deemed to be University, India</i>
17:10-17:15	Growth of Biocompatible Cerium Oxide(CeO ₂) Nanoparticles by using HPMC Polymer as a Capping Molecule B. Saraswathi <i>Davangere University, India</i>
17:15-17:20	Weed Derived Carbon Dots based Fluorescent Sensor for Determination of Mercury Ions in waste water Sharmistha Samota <i>Panjab University Chandigarh, India</i>
17:20-17:25	Synthesis of chitosan-gelatin composite hydrogel loaded with Fe ₂ O ₃ nanoparticles and its characterization Medha <i>DAV University, India</i>
17:25-17:30	Polymeric Lipid Nanoparticles for Donepezil Delivery Meghana Bhandari <i>Department of Biomedical Engineering IIT Ropar, India</i>
17:30-17:35	Phytochemical Characterization of the Ethanolic Extract of Kaempferia Galanga Rhizome from Meghalaya, India for Potential Anti-Oxidant Activities using TLC and GCMS Chromatographic Technique - Deep Freeze Extraction Flavius P Nonglang <i>North Eastern Hill University</i>



APA Bioforum International e-Conference on Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme



Asian Polymer Association

Session 11		Biopolymers for Human Healthcare	
<i>Chairs: Atsushi Suzuki (Japan) & Philippe Roger, UPS, France</i>		<i>Moderator - Chetna Verma</i>	
Time	Lecture Title/Author		
09:00-09:30	PL:	Stimuli-Responsive Polymeric Biomaterials for Engineering Spheroids Masaya Yamamoto (TU, Japan) <i>Tohoku University, Japan</i>	
09:30-10:00	PL:	Polymeric and Ceramic Biomaterials for Tissue Engineering and Regenerative Medicine: Road from Innovations to Technologies Ashok Kumar <i>Indian Institute of Technology, Kanpur, India</i>	
Session 12		Functional Polymers & Biopolymers	
<i>Chairs: Rohidas Arote (Korea) & Mudrika Khandelwal (IITH India)</i>		<i>Moderators - Ankita Sharma & Chetna Verma</i>	
Time	Lecture Title/Author		
10:00-10:15	IL:	Nano Material Impregnated Fabric Filter for Safe Drinking Water Mangla Joshi <i>IIT Delhi, India</i>	
10:15-10:30	IL:	Synthesis of Polymers Bearing Clickable Functional Groups via Functional Initiator and Functional Monomer Approaches Prakash Wadgaonkar <i>CSIR-National Chemical Laboratory, Pune, India</i>	
10:30-10:45	IL:	Structure and Properties of PLA/EVA Blown Films for Packaging of Fruits and Vegetables S Radhakrishnan <i>MIT-WPU</i>	
10:45-10:55	OL:	Development And Properties Of Guava Based Nano-Edible Coating For Fresh Fruit Application S.D. Sadhu <i>Bhaskaracharya College of Applied Sciences, University of Delhi, India</i>	
10:55-11:05	OL:	Evaluation of Machining Performance and Parametric Optimization During Drilling of Bio-Nanocomposite Umang Dubey <i>Madan Mohan Malaviya University of Technology, India</i>	
11:05-11:15	OL:	Synthesis of Chitosan based Nanoherbal Composite for Biomedical Applications P. Premasudha <i>Bharathiar University, India</i>	
11:15-11:25	OL:	Chitosan Mediated Polypyrrole Nanotube Decorated with MoS ₂ Quantum Dots for All Solid State and Flexible Symmetric Supercapacitor Applications H. Vijeth <i>Mangalore Institute of Technology and Engineering Moodbidri, India</i>	
11:25-11:35	OL:	Design and Fabrication of Gelatin based Electrospun Filter Media for Bio-Separation Applications Ashwini Wali <i>CSIR-NCL, India</i>	

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme

Session 13 Tissue Engineering & Bioreceptive Systems	
<i>Chairs: Yashveer Singh (IITR, India) & Masaya Yamamoto (TU, Japan) Moderators: Pratibha Singh & Vipula</i>	
Time	Lecture Title/Author
10:00-10:15	IL: Polymeric Nanofibrous Scaffolds: Role in Tissue Regeneration and Disease Models Kaushik Chatterjee <i>Indian Institute of Science, Bangalore, India</i>
10:15-10:30	IL: The Effect of the Adding of Banana Sap on the Properties of PEGDMA/PEO Hydrogel Film Sap for Wound Healing Acceleration Haryanto <i>Universitas Muhammadiyah Purwokerto, Indonesia</i>
10:30-10:45	IL: Stimuli Responsive Microgel and Poly(ethoxysiloxanes) Based Smart Materials Garima Agarwal <i>IIT Mandi, India</i>
10:45-10:55	OL: Synthesis of Antibacterial Silk Sericin / PVA Nanofibres for Wound Dressing : in Vitro and in VIVO Studies Abirami M <i>D.G. Vaishnav College, Chennai, India</i>
10:55-11:05	OL: An Oxygen Releasing Breathing Cardiac Patch for Myocardial Infarction Parvaiz Shiekh <i>Indian Institute of Technology Kanpur, India</i>
11:05-11:15	OL: Polymeric Aligned Nerve Guidance Channels (NGCs) and Exosomes Alleviate Regeneration in Diabetic Peripheral Neuropathy Condition Anamika Singh <i>Indian Institute of Technology Kanpur, India</i>
11:15-11:25	OL: Biopolymeric Nanofibrous Bandage for Wound Healing Applications E. Thangaraju <i>Sri Sarada College for Women (Autonomous), Salem, India</i>
11:25-11:35	OL: Generation of Regenerative Tissue Engineered Construct with Autologous Chondrocyte Encapsulated in Platelet Rich Plasma/Alginate-based Hydrogel for Cartilage Tissue Regeneration B. N. Singh <i>Manipal School of Life Sciences, MAHE, Manipal, India</i>
Session 14 Smart Materials	
<i>Chairs: Deepak Pathania (JU, India) & Sita Ram Sharma (CU, India) Moderators: Manali Somani & Rohini Verma</i>	
Time	Lecture Title/Author
10:00-10:15	IL: Protection of Cells and Biomolecules by Polyampholytes Kazuaki Matsumura <i>School of Materials Science, Japan Advanced Institute of Science and Technology, Japan</i>
10:15-10:30	IL: Inorganic Agents Incorporated Chitosan Hydrogel for Hemostasis Jayakumar R <i>Amrita Vishwa Vidyapeetham, Kochi, India</i>
10:30-10:45	IL: Increased Apoptosis and Expression of Bcl-2 Related Marker in Wound Healing of Streptozotocin Induced Diabetic Rats Surya Bhan <i>Department of Biochemistry, North-Eastern Hill University, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme

10:45-10:55	OL: Facile Access to Multi-stimuli Responsive (Bio)Polymers S. Banerjee <i>IIT Bhilai, India</i>
10:55-11:05	OL: Ultrasonically Synthesized Hydrogel and Study of Polymerization Parameters on Percentage Grafting Navneet Bhullar <i>Chandigarh University Mohali, India</i>
11:05-11:15	OL: Combinatorial Study of Anticorrosive Coatings with Multicore Microcapsules and Polyaniline Nanoparticles: A Novel Approach U.B. Gawai <i>Late Annasaheb R D Deore Arts and Science College, India</i>
11:15-11:25	OL: Smart Nanocarriers as Versatile Platforms for Targeting Skin Diseases Neha Tiwari <i>University of Bayreuth, Germany</i>
11:25-11:35	OL: Metal-Free Polyester Nanomaterials for Biomedical Use and Potential Clinical Application PK Gupta <i>Sharda University, India</i>

Session 15 | Poster Presentations

Chairs: Prakash Wadgaonkar (NCL, India) & Garima Agrawal (IITM, India) Moderators: Ankita Sharma & Chetna Verma

Time	Title/Author
11:45-11:50	Preparation of Quercetin Incorporated Biopolymeric Films Priya Rani <i>Central University of South Bihar, India</i>
11:50-11:55	37.5 Yarn Technology for Enhancing Thermo-Physiological Comfort of Textile Products Samridhi Garg <i>Dr B R Ambedkar National Institute of Technology, Jalandhar, India</i>
11:55-12:00	Biomass Driven Efficient Sensor for Selective Removal of Uranium (VI) from Aqueous Medium Preeti <i>Panjab University Chandigarh, India</i>
12:00-12:05	Fabrication of Okra/Psyllium@poly(AAm)-IA Smart Material: Studies on Responding Behavior to pH and Temperature External Stimuli Alok Kr Dixit <i>Dr B R Ambedkar National Institute of Technology (NIT) Jalandhar, India</i>
12:05-12:10	Mathematical Modelling Diffusion Characteristics Transdermal Formulation Benu George <i>National Institute of Technology Calicut, India</i>
12:10-12:15	Fe ₃ O ₄ Embedded Oxidized Sterculia Gum/Gelatin Hybrid System for Anionic Dye Enrichment Vikrant Singh Rana <i>Sant Baba Bhag Singh University, India</i>
12:15-12:20	Self-Crosslinked Polyallylamine/ Eudragit S-100 Nanoparticles for Colorectal Cancer Aastha Gupta <i>IIT Mandi, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme

Session 15 Poster Presentations	
<i>Chairs: Prakash Wadgaonkar (NCL, India) & Garima Agrawal (IITM, India) Moderators: Ankita Sharma & Chetna Verma</i>	
Time	Title/Author
12:20-12:25	Preparation and Characterization of Polymer Biocomposite 3D Mat for Bone Tissue Regeneration Gurumoorthi Ramar <i>CIPET: School for Advanced Research in Polymers (SARP) - ARSTPS, Chennai, India</i>
12:25-12:30	Morphological and Optical study of Amine Functionalized Ceria Nanoparticles G.H. Nagaveni <i>Davangere University, Karnataka, India</i>
12:30-12:35	Bacterial Cellulose Adherence on Natural Fabric through Agitated and Static Cultivation and Effect of Date Syrup as a Nutrient on BC Production Abhay Pandit <i>Central University of South Bihar, Gaya, India</i>
12:35-12:40	Green Synthesis of Biocompatible Silver Nanoparticles V. S. Patil <i>Davangere University, India</i>
12:40-12:45	LaTiO ₂ N/Bi ₂ S ₃ Z-scheme Nano Heterostructures Modified with rGO with High Interfacial Contact for Rapid Photocatalytic Degradation of Tetracycline Sunil Kumar Sharma <i>Shoolini University Solan, India</i>
12:45-12:50	Preparation and Mechanical Characterization of Curcumin Incorporated SPI Films Shikha Rani <i>Central University of South Bihar, Gaya, India</i>
12:50-12:55	Silk Fibroin-Surfactant Interaction: Molecular, Structural and Rheological Insights Swarali Hirlekar <i>CSIR-National Chemical Laboratory, India</i>
12:55-13:00	Variation in Biological Parameters During Monsoon and Post-Monsoon Season in Himalayan and Upper Segments of River Yamuna Shiwani Sharma <i>Abhilashi University, Mandi, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme

Session 16 Poster Presentations	
Chairs: Smita Mohanty (CIPET, India) & Samrat Mukhopadhyay (IITD, India) Moderators: Pratibha Singh & Vipula	
Time	Title/Author
11:45-11:50	An Efficient Wound Healing Hydrogel based on a Hydroalcoholic Extract of Moringa Oleifera Seeds Aaliya Ali <i>Shoolini University, India</i>
11:50-11:55	Photocatalytic Degradation of Acidic and Basic Dyes by Amino Acid Assisted BiOI Gurpreet Kaur <i>I.K. Gujral Punjab Technical University, Jalandhar, Punjab, India</i>
11:55-12:00	Novel Thymoquinone Loaded Chitosan-Lecithin Micelles for Effective wound Healing: Development, Characterization, and Preclinical Evaluation Prakrati Garg <i>Shoolini University, India</i>
12:00-12:05	Synthesis of Hydroxy Apatite from Waste Eggshells and Sea Shells-Recycling Materials for the Production of Hydroxy Apatite Tresa Sunitha George <i>St. Paul's college, Kalamassery, India</i>
12:05-12:10	A Cellulose Paper-based Electrochemical Immunoassay for the Bacterial Infection Specific Biomarker Detection using Gold Nanoparticles Yachana Gupta <i>The NorthCap University, India</i>
12:10-12:15	Physiochemical Characterization, Cellular Interaction and Commercial Application of Partially Cryoaggregated Gold Nanoparticles Ankita Mishra <i>Indian Institute of Technology Kanpur, India</i>
12:15-12:20	Fabrication of Uniform Nanosized CeO ₂ via controlling the morphological characteristics of Biopolymer template Gagandeep Kaur <i>Sant Longowal Institute of Engineering and Technology, India</i>
12:20-12:25	Chitosan based Nanocomposite Coating to Extend Shelf Life of Pineapple Fruit Indra Bhusan Basumatary <i>Central Institute of Technology, Kokrajhar, India</i>
12:25-12:30	Study of PBS/PBAT Blends Filled with HNT for Food Packaging Applications Prachi Desai <i>MIT World Peace University, India</i>
12:30-12:35	Moringa Oleifera Gum-Based Superabsorbent Nanogel and its Future Perspectives Sunita Ranote <i>Himachal Pradesh University, India</i>
12:35-12:40	Immobilization of Laccase Enzyme on Modified Cellulose Nanofibers Extracted from Rice Straw for Degradation of Pesticides Kavita Sharma <i>Panjab University</i>
12:40-12:45	Synthesis of UV-Responsible Disulphide and Cycloaddition based Self-Healing Polymer by Varying the Thiol Group Diksha Sharma <i>IIT Ropar, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme

12:45-12:50	Isolation and Characterization of Eggshell Protein for Biomedical Application Preeti Sharma <i>IIT Roorkee, India</i>
12:50-12:55	Waste Biomass based Zinc Detection Sensor in Aqueous Solutions. Vijay Kumar <i>Panjab University, India</i>
12:55-13:00	Polymeric Benzoxazine-Sulfur Embedded Chitosan Freestanding Beads as a Sustainable Facile Strategy for Remediation of Mercury and Oil Saad Zafar <i>Shiv Nadar University, India</i>

Session 17 | APA Oral Award Lectures

Chairs: Satyendra Mishra (NMU, India), Aditi Sangal (Amity, India) & Surya Bhan (NEHU) Moderators: Manali Somani & Rohini Verma

Time	Title/Author
11:45-11:55	Hyaluronic Acid Decorated Irinotecan Loaded Lignin Nanoparticles: Synthesis, Optimization and Characterization Lubna Siddiqui <i>Jamia Hamdard, India</i>
11:55-12:05	Fabrication of Thyme Oil loaded Carrageenan-Polyethylene Glycol based Hydrogel Membranes as an Antibacterial Wound Dressing Pratibha Singh <i>IIT Delhi, India</i>
12:05-12:15	Diamidoximated Cellulosic Bioadsorbents from Hemp Stalks for Elimination of Uranium (VI) and Textile waste in Aqueous Systems Manpreet kaur <i>Panjab University, India</i>
12:15-12:25	Green Synthesis of Biocompatible Silver Nanoparticles Vismitha S. Patil <i>Davangere University, India</i>
12:25-12:35	Anti-Cancer Therapeutic Efficacy of Biogenic Synthesis of ZnO Nanoparticles using Annona Muricata Plant Leaf Extract on Tumor Models Siva Chander Chabattula <i>Indian Institute of Technology Madras, India</i>
12:35-12:45	Investigations on Excellent Selectivity and Performance for Removal of Anionic azo Dyes from Wastewater using Terephthalaldehyde Crosslinked Chitosan Copolymerized with Acrylamide Madhvi <i>Sant Longowal Institute of Engineering and Technology, India</i>
12:45-12:55	Polymeric Lipid Nanoparticles for Donepezil Delivery Meghana Bhandari <i>Department of Biomedical Engineering IIT Ropar, India</i>
12:55-13:05	Preparation and Characterization of Polymer Biocomposite 3D Mat for Bone Tissue Regeneration Gurumoorthi Ramar <i>CIPET: School for Advanced Research in Polymers (SARP) - ARSTPS, Chennai, India</i>

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme

13.00-14.00 -Lunch Break

Session 18		Miscellaneous Material	
<i>Chair: Shantanu Bhowmick (Amrita, India) & VK Gupta (RIL, India)</i>		<i>Moderators: Ankita Sharma & Chetna Verma</i>	
Time		Title/Author	
14:00-14:10	OL	Synergistic Effect of Encapsulated Linseed Oil and Soybean Oil Blend in Phenol-formaldehyde Microcapsule on Self-Healing Efficiency of Anticorrosive Coatings PS Shisode <i>S. S. V. P. Sanstha's L. K. P. R. Ghogrey Science College, Jalgaon, (M.S), India</i>	
14:10-14:20	OL	Dynamic Light Scattering Studies on Thermogelation of Dilute Aqueous Solution of Methylcellulose: A Mathematical Approach Ratan Pal Singh <i>GSSDGS Khalsa College Patiala, India</i>	
14:20-14:30	OL	Graphene oxide-Polyaniline Nanostructures as Electrode Materials for Energy Storage S Chauhan <i>Himachal Pradesh University, India</i>	
14:30-14:40	OL	Studies on Water Vapor Transmission Rates through Biopolymer Blends for Food Packaging A. Desale <i>School of Petroleum, Polymer and Chemical Engineering, MIT-World Peace University, India</i>	

Session 19		Bio & Nanomaterials	
<i>Chairs: SP Singh (NPL, India) & Pralay Maiti (IIT, BHU, India)</i>		<i>Moderators: Pratibha Singh & Vipula</i>	
Time		Title/Author	
14:00-14:10	OL	Effect of Nano silica on Phase Transformation from Form-II to Form –I of Polybutene-1 Deepali Kulkarni <i>MIT World Peace University, India</i>	
14:10-14:20	OL	Growth and Spectral Features of Silver Doped Aniline-Formaldehyde Nanocomposite Polymer: Density Functional Theory Investigation Anant Kulkarni <i>Somaiya Vidyavihar University, Mumbai, India</i>	
14:20-14:30	OL	Compost production and Sustainable Bio Waste Management through Indigenous Method Meena Kumari <i>Department of Biosciences.H.P.U.Shimla, India</i>	
14:30-14:40	OL	A gelatin-based platform with antioxidant and nitric oxide releasing property for biomedical applications Perna Singh <i>Department of Biological Sciences and Bioengineering, Indian Institute of Technology Kanpur</i>	

APA Bioforum International e-Conference on
Polymeric Biomaterials & Bioengineering

Day-2 | Saturday | 28th August, 2021 | Programme

Session 20		Water Decontamination & Purification	
<i>Chairs: Yuvraj S Negi (IITR, India) & Pranee Phnyocheep (MU, Thailand)</i>		<i>Moderators: Manali Somani & Rohini Verma</i>	
Time		Title/Author	
14:00-14:10	OL	A Magnetically Recyclable Bi ₂ WO ₆ /Fe ₂ O ₃ /WO ₃ Heterojunction for Photodegradation of Bisphenol-A from Polluted water Pooja Shandilya <i>Shoolini University, India</i>	
14:10-14:20	OL	Polypyrrole Coated Bi-Adsorbents for Removal of Arsenic from Contaminated Water Subhankar Maity <i>Uttar Pradesh Textile Technology Institute, Kanpur, India</i>	
14:20-14:30	OL	Room Temperature Synthesis, Characterization of (Zn/Co)-ZIFs and their Application as Efficient Scavengers for U(VI) Inderpreet Kaur <i>Guru Nanak Dev University, India</i>	
14:30-14:40	OL	Biomolecule-assisted Synthesis of BiOI and its Performance as Photocatalyst under Visible Light Priti Bansal <i>Punjabi university Patiala, South campus, India</i>	

Valedictory Session

Moderator - Chetna Verma

Welcome Address

BS Kaith, NIT Jalandhar

Time: 15.00

APA Address

Bhuvanesh Gupta, President APA

Time: 15.05

Valedictory Address

Dr. C. P. Sharma (Founding President, SBAOI, STERMI)

Time: 15.10

Award Presentation

By Dr. C. P. Sharma (Founding President, SBAOI, STERMI)

Time: 15.40

Vote of Thanks

Sunita Rattan, Secretary, APA

Time: 15.45