



Peers Alley Media

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VIRTUAL EVENT

**GLOBAL CONFERENCE ON
ADVANCES IN POLYMER
SCIENCE AND
NANOTECHNOLOGY**

MAY 27-28

2021

Theme: Enlightening the Advancements in the fields of
Polymer Science, Chemistry and Nanotechnology

Scientific Program

ADV. POLYMERS 2021

<https://polymer-science.peersalleyconferences.com/>

DAY 1

THURSDAY, MAY 27, 2021

Scientific Program

BST – British Summer Time

10:00

Title: Shape memory polymers in transition to programmable materials

Thorsten Pretsch, Fraunhofer Institute for Applied Polymer Research IAP, Germany

10:30

Title: New polymerizable liquid crystals and their functional composites with nanoparticles

Raisa V. Talroze, A.V.Topchiev Institute of Petrochemical Synthesis, Russia

11:00

Title: A green strategic design engineering for the fabrication of bio-based industrial materials

S Ananda Kumar, Anna University, India

11:30

Title: Biopolymer treatment of wool fabric for shrink resistance

Vinod Kadam, ICAR-Central Sheep and Wool Research Institute, India

12:00

Title: Structure and properties of chitosan based cellulose nanowhiskers grafted nanocomposite material via deep eutectic solvent in green chemistry

Mubarak Mujawar, Curtin University, Malaysia

Lunch Break 12:30-13:00

13:00

Title: Physical and chemical factors and reactions governing shape memory in shape memory alloys

Osman Adiguzel, Firat University, Turkey

13:30

Title: Polymers in the development of supersaturating drug delivery systems

Abhay T Sangamwar, NIPER, India

14:00

Title: Influence on the biological response of the architecture of grafted polymers onto titanium surfaces

Caroline Pereira, Institut Galilée, Université Sorbonne Paris Nord, France

14:30

Title: Redox-sensitive polymeric nanomedicine of small molecule and miRNA for effective treatment of pancreatic cancer

Ram I. Mahato, University of Nebraska Medical Center, USA

Refreshment Break 15:00-15:30

15:30

Title: Impact of aging on mechanical strength and ductility of SLA additively manufactured parts

Sunil Shanmugasundaram, Stanford University, USA

16:00

Title: Injectable and highly Stretchable hydrogels for sensing, drug delivery, and wound healing applications

Hai-Feng Ji, Drexel University, USA

16:30

Title: Modification of PDMS with acrylic acid/ethylene glycol dimethacrylate mixtures by simultaneous polymerization assisted by gamma radiation for biomedical applications

Marlene Alejandra Velazco Medel, Universidad Nacional Autónoma de México, Ciudad Universitaria CDMX, México

17:00

Title: Novel Functional Disposable Micropipette Tips for purifying biomolecules

Mirna L. Sanchez, Universidad Nacional Quilmes, Argentina

17:30

Title: POLYVINYL ALCOHOL BEADSAS hosts for flower-like magnetic nanostructures

Laura Mabel Sanchez, Universidad Nacional de Mar del Plata (UNMdP), Argentina

18:00

Title: Fabrication of Polypropylene /Lignin blend sponges via Thermally Induced Phase Separation

Abeer Alassod, Donghua University, China

End of Day 1



DAY 2

FRIDAY, MAY 28, 2021

Scientific Program

BST – British Summer Time

10:00

Title: Role of ethanol content in the polymerization of organic and inorganic monomers

Samantha Lizette Flores López, Instituto de Ciencia y Tecnología del Carbono INCAR-CSIC, Spain

10:30

Title: About the ageing of polyethylene subject to plasma discharges: A DFT approach

Giacomo Buccella, Materials and Chemical Engineering “G. Natta” P.zza Leonardo da Vinci, Italy

11:00

Title: Thermoelectric materials

S. Mahalakshmi, Vellore Institute of Technology, India

11:30

Title: Biopolymer: Potential applications in bioremediation of cadmium contaminated waters

Nadia Mahmoud Tawfiq Jibril, University of Babylon, Iraq

12:00

Title: An investigation of structural deformation on elastomeric profiles during extrusion process using finite element analysis

Sujit Sharma, Indian Institute of Technology Kharagpur, India

Lunch Break 12:30-13:00

13:00

Title: Novel flame retardant polymer preparation using ring-opening olefin metathesis reactions

Ervin Kovács, Institute of Materials Science, Research Centre for Natural Sciences, Hungary

13:30

Title: High performance polyester from biobased 1,6-Hexanediol and sulfur containing monomer

Wandji Djouonkep Lesly Dasilva, Wuhan University of Science and Technology, China

14:00

Title: Biomedical applications of polymer-coated metallic nanoparticles

Cristina Mariana URITU, Grigore T. Popa" University of Medicine and Pharmacy, Romania

14:30

Title: Silicone breast implants: Grafting of a bioactive polymer to improve the bio-integration

Mylan LAM, Institut Galilée, Université Sorbonne Paris Nord, France

15:00

Title: The aging behavior of two commercial conductive POLYTHIOETHER SEALANTS

Sudhir Bafna, Raytheon Technologies, USA

15:30

Title: Modulation of tubulin polymerization into microtubules for optimized outcome in cancer nanomedicine

Devika B. Chithrani, University of Victoria, Canada

Refreshment Break 16:00-16:30

16:30

Title: Scalable production of polyhydroxybutyrate biopolymer from *Cupriavidus necator* ATCC 17697

Daiana Nygaard, Escuela de Ciencia y Tecnología, Universidad de San Martín, Argentina

17:00

Title: Synthesis of ion exchange membrane by electrospinning technique - effect of the process parameters on the membrane properties

Jesús Salvador Jaime Ferrer, CIATEC A.C., México

17:30

Title: Grafting of poly(*N*-vinylimidazole) and quaternized poly(*N*-vinylimidazole) onto cotton gauzes and its evaluation of antibacterial and pH-buffering medical devices

Luis Alberto Camacho Cruz, Universidad Nacional Autónoma de México, Ciudad Universitaria CDMX, México

18:00

Title: Rheological impact and economic implications of partial to total substitution of imported bentonite clay for oil and gas drilling operations in Nigeria

Oghenerume Ogolo, African University of Science and Technology, Nigeria

18:30

Title: Design and implementation of a crossflow turbine for PICO hydropower electricity generation

Engr. Obiora C. Okafor, Nnamdi Azikiwe University, Nigeria

19:00

Title: Synthesis of Temperature and pH-Sensitive Polymers based on 2-Oxazolines and N-Isopropylacrylamide

Juan Carlos Rueda S, Pontifical Catholic University of Peru (PUCP), Peru

End of Day 2

