

POSTER SESSION I: WEDNESDAY AFTERNOON, 9 APRIL 2014, 14:00-15:30

POSTER NO – 1

**STUDY OF POLY ETHYLENE ACRYLIC ACID DERIVATIVES AS POUR POINT
DEPRESSANTS OF WAXY CRUDE OILS**

AL-SHAFEY, HUSSIN

Egyptian Petroleum Research Institute, Cairo, Egypt

POSTER NO – 2

**CHEMICAL OXIDATIVE POLYMERIZATION OF P-PHENYLENEDIAMINE AND ITS
DERIVATIVES**

AMER, ISMAEL

College of Science, Florida, South Africa

POSTER NO – 3

SYNTHESIS OF POLY(STYRENE-co-MALEIMIDE) (SMI) COPOLYMER NANOPARTICLES

BEGUM, NUSRAT

University of Stellenbosch, Stellenbosch, South Africa

POSTER NO – 4

CHIRAL RECOGNITION BY POLYMETHACRYLIC ZINC PORPHYRINS

BENELLI, TIZIANA

University of Bologna, Bologna, Italy

POSTER NO – 5

STUDY OF THE EFFECT OF ALKYL SUBSTITUTION OF MONOMERS OF POLYESTERS

BHENGU, KENNETH

North-West University, Potchefstroom, South Africa

POSTER NO – 6

**INFLUENCE OF NANOSILICA MODIFICATION ON THE PROPERTIES OF POLYACRYLATE
EMULSIONS AND FILMS**

BLAGOJEVIC, SANJA LUCIC

University of Zagreb, Zagreb, Croatia

POSTER NO – 7

BACTERIAL CELLULOSE: A NEW ALTERNATIVE MATERIALS IN PAPER PRODUCTION

BOITEUX, GISELE

Universite Claude Bernadr-Lyon, Villeurbanne, France

POSTER NO – 8

ENHANCED IONIC CONDUCTIVITY OR CARBOXYLATED NITRILE RUBBER/MGAL-LDH COMPOSITES BY ADDING IMIDAZOLIUM IONIC LIQUIDS

BOITEUX, GISELE

Universite Claude Bernadr-Lyon, Villeurbanne, France

POSTER NO – 9

INVESTIGATIONS OF NITRILE RUBBER COMPOSITES CONTAINING IMIDAZOLIUM IONIC LIQUIDS

BOITEUX, GISELE

Universite Claude Bernadr-Lyon, Villeurbanne, France

POSTER NO – 10

ELECTROPHYSICAL PROPERTIES OF ION-CONDUCTIVE POLYMER SYSTEMS ON THE BASE OF AN ALIPHATIC EPOXY OLIGOMER AND LiClO₄

BOITEUX, GISELE

Universite Claude Bernadr-Lyon, Villeurbanne, France

POSTER NO – 11

MECHNO-ELECTRICAL BEHAVIOR OF CARBON NANOTUBE COATED POROUS STRUCTURE

CHANG, WON SEOK

Korea Institute of Machinery and Materials, Daejeon, Korea

POSTER NO – 12

CHEMICAL COMPOSITION SEPARATION OF EP COPOLYMERS BY TREF, CRYSTAF, CEF AND HT-SGIC: CRYSTALLIZATION VERSUS ADSORPTION

CHERUTHAZHEKATT, SADIQALI

University of Stellenbosch, Stellenbosch, South Africa

POSTER NO – 13

RESILIENCE OF SILICONE BREAST IMPLANTS – NEW INSIGHTS BY MAPPING THE MECHANICAL PROPERTIES OF IMPLANT SHELLS

DAENICKE, JONAS

Institute of Polymer Materials, Erlangen, Germany

POSTER NO – 14

INFLUENCE OF PROCESSING ON BLENDS OF LINEAR AND LONG-CHAIN BRANCHED POLYPROPYLENE AND ITS REVERSIBILITY

DUSCHER, BERNADETTE

Vienna University of Technology, Vienna, Austria

POSTER NO – 15

MODIFIED CHITOSAN NANOFIBERS FOR EFFICIENT CAPTURE OF MYCOBACTERIA

FORTUIN, LISA

University of Stellenbosch, Stellenbosch, South Africa

POSTER NO – 16

MINERALIZATION OF CHITOSAN : COLLAGEN : GELATIN HYDROGELS

GAMBARDELLA, MARIA TERESA DO PRADO

Instituto de Quimica de Sao Carlos, Sao Carlos, Brazil

POSTER NO – 17

**PRODUCTION AND CHARACTERIZATION OF STAINLESS STEEL MATRIX COMPOSITES
BY POWDER METALLURGY**

GULSOY, OZKAN

Marmara University, Goztepe-Istanbul, Turkey

POSTER NO – 18

**THE STUDY OF THE BIFUNCTIONAL CATALYST PT / RE USED IN THE PLATFORMING
UNIT FOR OBTAINING HIGH OCTANE NUMBER OF THE GASOLINE**

HANAFI, MENOVAR

The University of Science and Technology of Oran, Algeria

POSTER NO – 19

DEVELOPMENT AND RHEOLOGICAL EVALUATION OF CHITOSAN: PEQUI OIL GELS

HORN, MARILLA

Universidade de Sao Paulo, Sao Carlos, Brazil

POSTER NO – 20

ANILINE POLYMERIZATION ASSISTED BY SBA-16 TYPE MESOPOROUS SILICA

HOYOS, LEIDY

Universidade de Antioquia, Colombia

POSTER NO – 21

**DEVELOPMENT AND PRODUCTION OF MECHANICAL PENETRATION ENHANCERS
(MPE'S) FROM NATURAL POLYMERS EXTRACTED FROM FISH SCALES**

IGWE, CHIMA

Federal Institute of Industrial Research Oshodi, Lagos, Nigeria

POSTER NO – 22

HEPARIN AND HEPARAN SULFATE HYDROGELS FOR CARDIOVASCULAR TISSUE REGENERATION

JANSE VAN RENSBURG, ALIZA

Cardiovascular Research Unit, Observatory, South Africa

POSTER NO – 23

INTRODUCING IMAGINARY CONTACT ANGLES FOR ANALYZING HYPERHYDROPHILICITY AND THE INVERSE LOTUS EFFECT ON ROUGH TITANIUM SURFACES

JENNISSEN, HERBERT

Universität Duisburg-Essen, Essen, Germany

POSTER NO – 24

COMPARISON OF TWO BIOMEMBRANES IN THE DIRECT PULP CAPPING

KLEIN-JUNIOR, CELSO AFONSO

Universidade de Sao Paulo, Sao Carlos, Brazil

POSTER NO – 25

FATIGUE BEHAVIOUR OF SHORT-FIBRE REINFORCED POLYPROPYLENE DESCRIBED BY EXPERIMENT AND SIMULATION

KOCH, THOMAS

Vienna University of Technology, Vienna, Austria

POSTER NO – 26

THE MODIFICATION OF AMORPHOUS PHASE OF POLYPROPYLENE – THE IMPACT ON THE SELECTED PROPERTIES

KRAJENTA, ARTUR

Centre of Molecular and Macromolecular Studies, Lodz, Poland

POSTER NO – 27

SYNTHESIS AND CHARACTERIZATION OF NEW IMIDAZOLIUM TONIC LIQUIDS AS SOLVENTS IN LITHIUM ELECTROLYTES

LANGWALD, NORBERT

Warsaw University of Technology, Warsaw, Poland

POSTER NO – 28

MAPPING THE ELECTRICAL CONDUCTIVITY OF CARBON BLACK FILLED COMPOSITES PRIOR TO AND AFTER SHEAR

LIU, XIANHU

University Erlangen-Nuremberg, Erlangen, Germany

POSTER SESSION II: THURSDAY AFTERNOON, 10 APRIL 2014, 14:00-15:30

POSTER NO – 29

SYNTHESIS, CHARACTERISATION AND EVALUATION OF HYDROPHOBIC LIGNOCELLULOSES-CLAY NANOCOMPOSITES FOR ORGANIC POLLUTANT REMOVAL FROM WATER

MAFUKIDZE, DONOVAN

University of Fort Hare, Alice, South Africa

POSTER NO – 30

FABRICATION OF 3D TUBULAR SCAFFOLD FROM PDLLA NANOFIBERS FOR BONE TISSUE ENGINEERING

MICHLER, GOERG

Martin-Luther-University Halle-Wittenberg, Halle/Saale, Germany

POSTER NO – 31

INVESTIGATION OF THE AMORPHOUS DOMAIN COOPERATIVITY IN COMPLEX COPOLYMER NANOFIBERS BY TEMPERATURE MODULATED DSC

MONNIER, XAVIER

Université de Rouen, Saint Etienne du Rouvray, France

POSTER NO – 32

STUDY OF THE PROPERTIES OF BLEND OF MALEIC ANHYDRIDE GRAFTED POLYETHYLENE AND PLASTICIZED STARCH WITH HYPERBRANCHED POLIOL POLYESTER

MURILLO RUIZ, EDWIN

Universidad Francisco de Paula Santander, Colombia

POSTER NO – 33

INVESTIGATION OF THE EFFECT OF CHITIN NANO WHISKERS ON THE STRUCTURAL AND PHYSICAL PROPERTIES OF HIGH IMPACT POLYPROPYLENE/CHITIN COMPOSITES

NEL, ALICIA

University of Stellenbosch, Stellenbosch, South Africa

POSTER NO – 34

EVALUATION OF POLY(METHYL METHACRYLATE-CO-VINYL ACETATE) SYNTHESIZED BY EMULSION POLYMERIZATION AS FILTRATE REDUCER

NUNES, RITA

Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

POSTER NO – 35

DEVELOPMENT AND PRODUCTION OF MECHANICAL PENETRATION ENHANCERS (MPES) FROM NATURAL POLYMERS EXTRACTED FROM FISH SCALES

OLATUNJI, OLOLADE

Federal Institute of Industrial Research Oshodi, Lagos, Nigeria

POSTER NO – 36

THE INFLUENCE OF GLYCEROL AND AGAR IN HYDROGEL WITH SILVER NANOPARTICLES

PARRA, DUCLERC

Nuclear and Energetic Research Institute, Sao Paulo, Brazil

POSTER NO – 37

POLYPROPYLENE AND NANOSILVER HYBRID FILMS OBTAINED IN MOLTEN STATE WITH ANTIBACTERIAL ACTIVITY

PARRA, DUCLERC

Nuclear and Energetic Research Institute, Sao Paulo, Brazil

POSTER NO – 38

SYNTHESIS AND CHARACTERIZATION OF POLYSTYRENE THREE-ARM-POLYDIMETHYLSILOXANE USING POLY(STYRENE-CO-VINYLTRIETHOXYSILANE) AS PRECURSOR

PEREZ, LEON

Pontificia Universidad Javeriana, Bogota, Colombia

POSTER NO – 39

SYNTHESIS OF HIGH MOLECULAR WEIGHT LIQUID MOLECULAR BRUSHES AND THEIR BULK PROPERTIES

PHIRI, MAPOLOKO MPHO

University of Stellenbosch, Stellenbosch, South Africa

POSTER NO – 40

REACTIVE BLOCK COPOLYMERS OF LACTIDE AND THEIR APPLICATION IN PLA PROCESSING

PLICHTA, ANDRZEJ

Warsaw University of Technology, Warsaw, Poland

POSTER NO – 41

BIODEGRADATION OF LINEAR BLOCK COPOLYMERS CONTAINING POLY(LACTIC ACID) SEGMENTS

PLICHTA, ANDRZEJ

Warsaw University of Technology, Warsaw, Poland

POSTER NO – 42

MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF MELEAGRIS GALLOPOVA HYDROXYAPTITE

SALMAR, SERDAR

Mehmet Akif Ersoy University, Burdur, Turkey

POSTER NO – 43

CHARACTERIZATION OF IMPACT POLYPROPYLENE AND ITS PREPARATIVE TREF FRACTIONS BY HIGH-RESOLUTION SOLID-STATE NMR

SINHA, PRITISH

University of Stellenbosch, Stellenbosch, South Africa

POSTER NO – 44

NANO-SCALE MORPHOLOGICAL ANALYSIS OF GRAPHENE-RUBBER COMPOSITES BY 3D TRANSMISSION ELECTRON MICROSCOPY

STÖCKELHUBER, KLAUS WERNER

Leibniz-Institut für Polymerforschung Dresden, Dresden, Germany

POSTER NO – 45

MULTIFUNCTIONAL EPOXY-COPPER OXIDE NANOCOMPOSITES

SUNNY, ANU TRESA

Mahatma Ghandi University, Kerala, India

POSTER NO – 46

FRICITION AND WEAR PERFORMANCE OF HDPE/TALC-CALCIUM CARBONATE POLYMER COMPOSITES AGAINST SLIDING DISTANCE AND APPLIED LOAD

TASDEMIR, MUNIR

Marmara University, Istanbul, Turkey

POSTER NO – 47

SYNTHESIS OF POLYMERIZABLE BENZENE CONTAINING RUTHENIUM DYES FOR USING VISIBLE LIGHT WATER SPLITTING WITH SOLAR CELL

TALAZ, OKTAY

Karamanoglu Mehmetbey University, Karaman, Turkey

POSTER NO – 48

POTENTIAL ROLE OF SILICA AND PCC NANOFILLERS AS COMPATIBILIZERS IN IMMISCIBLE PLA/LDPE BLENDS

VRSALJKO, DOMAGOJ

University of Zagreb, Zagreb, Croatia

POSTER NO – 49

A NEW TYPE OF FLAME RETARDANT FOAM BASED ON A SUSTAINABLE BIOHYBRID MATERIAL OF WHEAT GLUTEN AND SILICA

WU, QIONG

KTH Royal Institute of Technology, Stockholm, Sweden

POSTER NO – 50

OPTICAL PROPERTIES OF POLYSTYRENE/CLAY NANOCOMPOSITES

YILMAZ, IBRAHIM

Karamanoglu Mehmetbey University, Karaman, Turkey

POSTER NO – 51

PREPARATION OF PMMA/OMMT NANOCOMPOSITES AND THERMAL DEGRADATION KINETICS

YILMAZ, IBRAHIM

Karamanoglu Mehmetbey University, Karaman, Turkey

POSTER NO – 52

MODIFICATION OF SOLID POLYMER ELECTROLYTES BY ALUMINUM CARBOXYLATES FOR APPLICATION IN LITHIUM-ION BATTERIES

ZYGADLO-MONIKOWSKA, EWA

Warsaw University of Technology, Warsaw, Poland