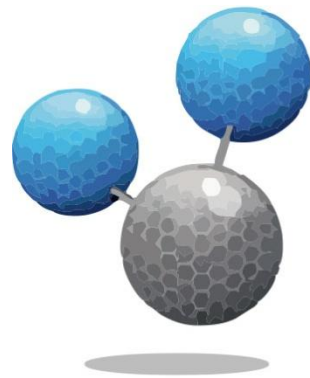




ICACE-2020 PROGRAM

October, 30TH-31TH, November, 01ST, 2020,
TUNISIA



ICACE
2020



Friday, October 30 th , 2020	
08H00-9H00	Online Registration
09H-09H30	<p style="text-align: center;">Opening Ceremony of ICACE-2020</p> <ul style="list-style-type: none">✓ Pr Hatem Dhaouadi, Chairman, Director of the Research Unit of Applied Chemistry & Environment, Faculty of Sciences of Monastir✓ Pr. Olfa Ben Ouada, Higher Education and Scientific Research Minister✓ Pr. Hedi Bel Hadj Salah, President of the University of Monastir✓ Pr. Adel Kalbossi, Dean of Faculty of Sciences of Monastir✓ Mr. Pierre Durand de Ramefort, French Institute of Tunisia (IFT)✓ Pr Nicolas Roche, Vice president of the French Chemical Engineering Society (SFGP)
09H30-09H40	<p style="text-align: center;">“Presentation of the ICACE-2020 Program”</p> <p style="text-align: center;">Dr Ghazza Masmoudi</p>
09H40-10H30	<p style="text-align: center;">Plenary conference 1:</p> <p style="text-align: center;">Pr. Emer. Mohamed Farouk Mhenni, Faculty of Sciences of Monastir, Tunisia</p>
10H30-11H20	<p style="text-align: center;">Plenary conference 2: “Agromining, a green chain of processes to recover metals present in soils”</p> <p style="text-align: center;">Pr. Marie Odile Simonnot, University of Lorraine, France</p>
11H20-12H10	<p style="text-align: center;">Plenary conference 3</p> <p style="text-align: center;">Pr. Mohamed Naceur Belgacem, University of Grenoble, France</p>
12H20-13H10	<p style="text-align: center;">Plenary conference 4:</p> <p style="text-align: center;">Pr. Mohammad Jawaid, University of Putra, Malaysia</p>
13H10-14H00	Lunch Break



14H-16H15

**ORAL SESSIONS: ORAL SESSIONS: TREATMENT OF INDUSTRIAL DISCHARGES & ENVIROMENTAL IMPACTS
(C01-C09)**

Oral Session 1: Treatment of Industrial Discharges & Environmental Impacts

Chairman: Pr. Mongi Seffen & Dr. Sonia Dridi-Dhaouadi

C01-C09

14H00-16H15

- ✓ **C01:** "Application of Raw Sawdust, Olive Pomace and their Derived Biocharsfor Copper Removal from Aqueous Solution",
Ibtissem Mannai, Stéphanie Sayen, Achouak Arfaoui, Amira Touil, Emmanuel Guillon
- ✓ **C02:** "Skimmer Upgrade to Enhance De-Oiling of Petroleum Production Water: Case Study ofan Industrial Scale Skimmer",
Ines Wada, Ghazza Masmoudi, Hatem Dhaouadi
- ✓ **C03:** "Adsorption of Nitrate, Phosphate, Nickel and Lead on Soils: Risk of Groundwater Contamination",
Mohamed Abdelwaheb, Khaoula Jebali, Hatem Dhaouadi, Sonia Dridi-Dhaouadi
- ✓ **C04:** "Treatment of Rinse Water Generated in the Galvanizing Processfor Zero Liquid Discharge"
Hayet Cherif , Manel Wakkel, Refka Korbsi, Insaf Krimi, Hamza Elfil
- ✓ **C05:** "Physicochemical and Geochemical Properties of Boujaada's Mine Soils (Taza Province)",
Ikram Lahmidi, Narmine Assabar, Raouf Jabrane
- ✓ **C06:** "Physico-Chemical and Geochemical Characterization of Ain Aouda Mine's Soils",
Narmine Assabar, Ikram Lahmidi, Raouf Jabrane
- ✓ **C07:** "Thermochemical Calculations to Follow the Reactions of Desulfurization of Geseous Resultingfrom a Coal Thermal Power Station",
Saloua Jemjami
- ✓ **C08:** "Adsorption of a Hazardous Azo Dye on Cellulose Extracted from Annual Agricultural Wastes",
Ibtissem Moussa, Manel Ben Ticha
- ✓ **C09:** "The Collection Efficiency ofan Asymmetrical Electrostatic Precipitator Model: Validation of the Experimental Results with Calculated Data Using Deutsch Model",
Kherbouche Fouad, Berdadi Bendaha Mourad



16H15-18H00	<p style="text-align: center;">POSTER SESSIONS:TREATMENT OF INDUSTRIAL DISCHARGES & ENVIRONMENTAL IMPACTS</p> <p style="text-align: center;">(P01-P13)</p>
16H15-16H45	<p style="text-align: center;">Poster Session 1: Treatment of Industrial Discharges & Environmental Impacts</p> <p style="text-align: center;">Chairman Pr Neji Ladhari & Dr. Sonia Dridi-Dhaouadi</p> <p style="text-align: center;">P1-P6</p> <ul style="list-style-type: none"> ✓ P01: "Evaluation of Intense African Dust Events and Contribution to PM10 Concentration in Tunisia", <u>Houda Chtioui</u>, Karim Bouchlaghem, Mohamed Hichem Gazzah ✓ P02: "Preparation of Photo Catalyst Based on Co-ZnO and its Application in the Photo Degradation of Dye Rhodamine 6G" <u>Ait Ben Hammou Nabil</u>, Khalef El Hossein, Bouchenafa-Saib Naima ✓ P03: "Binary Adsorption of Nickel and Lead onto Clayey Organic Soil", <u>Mohamed Abdelwaheb</u>, Hatem Dhaouadi, Sonia Dridi-Dhaouadi ✓ P04: "Thermochemical Calculations to Follow the Reactions of Thermal Decomposition of Phosphogypsum" <u>Saloua Jemjami</u> ✓ P05: "Effect of Acid Treatment and Pore Size of Clay in the CO₂ Adsorption Capacity" <u>Nesrine Chouikhi</u>, Sabrine Besghaier, Juan Antonio Cecilia, Mohamed Chlendi, Enrique Rodriguez Castellon, Mohamed Bagane ✓ P06: "Improvement of Mineral Clay Properties with an Acid Treatment" <u>Sabrina Besghaier</u>, Nesrine Chouikhi, Juan Antonio Cecilia, Mohamed Chlendi, Enrique Rodriguez Castellon, Mohamed Bagane
16H45-16H55	<p style="text-align: center;">Discussions</p>
16H55-17H30	<p style="text-align: center;">Poster Session 2: Treatment of Treatment of Industrial Discharges & Environmental Impacts</p> <p style="text-align: center;">Chairman Pr Neji Ladhari & Dr. Sonia Dridi Dhaouadi</p> <p style="text-align: center;">P07-P13</p> <ul style="list-style-type: none"> ✓ P07: "Effects of C/N Ratio on Carbon and Nitrogen Removals in a Hybrid Biological Reactor" <u>Hela Machat</u>, Nicolas Roche, Hatem Dhaouadi



- ✓ **P08:** “Gas Hydrate Formation Process for Capture of CO₂ from Natural Gas: Experimental and Modelling Study of the Effect of New Kinetic Promotors”
Said Samer, Saheb Maghsoodloo Babakhani, Mohamed Belloum, Jean-Michel Herri
- ✓ **P09:** “Experimental Investigation of a Novel Tow Stage ESP Associated with Unipolar Charger Used for ATEX Filtration”
Kherbouche Fouad, Berdadi Bendaha Mourad
- ✓ **P10:** “Characterizations and Valorization of Olive Mill Wastewater by Adsorption onto Activated Carbon”
Bekri Imene, Taleb Safia, Taleb Zoubida, Belfedal Abdelkader
- ✓ **P11:** “Study of Acetone Flux Adsorbed by Activated Carbon AC35”
Noujoud Benkahla, Foued Mhiri
- ✓ **P12:** “Adsorption of lead(II) Ions onto Activated Carbon Prepared from Prickly Pear Seeds (after Extraction Essential Oil)”
Rimene Dhahri, Asma Bouzidi, Younes Moussaoui
- ✓ **P13:** “Comparison of the Degradability of Three Reactive Dyes by Fenton Process”
Nour El Houda Slama, Ghazza Masmoudi, Hatem Dhaouadi

17H30-17H40

Discussions

17H40-18H10

**POSTER SESSION: SUSTAINABLE PROCESS AND CLEAN TECHNOLOGIES:
(P14-P17)**

17H40-18H10

**Poster Session 3: Sustainable Process and Clean Technologies:
Chairman Pr Neji Ladhari & Dr. Sonia Dridi Dhaouadi
P14-P17**

- ✓ **P14:** “New CeO₂-TiO₂, WO₃-TiO₂ and WO₃-CeO₂-TiO₂ Meso-Structured Aerogel Catalysts for the Low Temperature NO-Scr by NH₃ in Excess O₂”
Jihene Arfaoui, Abdelhamid Ghorbel, Carolina Petitto, Gerard Delahay
- ✓ **P15:** “Electrochemical Study of aMaterial on a Modified Electrode”
Rakhrour Waffa, Selloum Djamel, Benalia Mokhtar
- ✓ **P16:** “Preparation of Catalysts Based on Iron Oxyhydroxides and Zirconium and their Application for the Degradation of 4-Nitrophenol by aHeterogeneous Fenton-Like Process”



	<p><u>Hafsa Loumi</u>, Faiza Zermame, Benamar Cheknane, Naima Bouchenafa, Omar Bouras</p> <p>✓ P17: Study of Copper Based Heteropoly Salts in the Efficiency of Synthesis of 5-Ethoxycarbonyl-4-phenyl-6-methyl-3,4-dihydropyridin-2(1H)-one</p> <p><u>Khiar Chahinaz</u>, Mazari Tassadit</p>
18H00-18H10	Discussions
Saturday, October 31th, 2020	
08H00-09H00	Online Registration
09H00-09H50	<p>Plenary conference 5:“Valorization of Vegetable Oils: from Thermal Risk Assessment to Kinetic Modeling”</p> <p>Dr. Sebastien Leveneur, University of Rouen, France</p>
09H50-10H40	<p>Plenary conference 6:“CO₂ Adsorbents – Potential Use in Flue Gas Capture and for Gas Upgrading”</p> <p>Pr. Niklas Hedin, University of Stockholm, Sweden</p>
10H40-13H00	ORAL SESSIONS: MANAGEMENT AND VALORIZATION OF BIORESOURCES AND INDUSTRIAL WASTES (C10-C15)
10H40-12H40	<p style="text-align: center;">Oral Session 2: Management and Valorization of Bio-resources</p> <p style="text-align: center;">Chairman: Pr Marzouk Lajili & Dr Ramzi Khiari</p> <p>✓ C10: “Bio-Oil Fast Pyrolysis of Exhausted Olive Pomace: Physico-Chemical Characterization and Investigation of its Possible as Biochemical and Biofuel”</p> <p><u>Najla Grioui</u>, Kamel Halouania</p> <p>✓ C11:“Acoustic and Thermal Behavior of Environmental-Friendly Composite Panels Made of Various Textile Waste Sand Epoxy Resin”</p> <p><u>Wafa Baccouch</u>, Adel Ghith, Ipek Yalcin-Enis, Hande Sezgin, Xavier Legrand, Fayala Faten</p> <p>✓ C12: “Removal of Thiophene by Different Adsorbents from Hot Gas”</p>



	<p><u>Hiba Aouled Mhemed</u>, Sana Kordoghli, Mylène Marin Gallego, Jean-François Largeau, Fethi Zagrouba, Mohand Tazerout</p> <ul style="list-style-type: none"> ✓ C13: “Recycling Irons Waste as Abrasive Grains” <u>Elaissi Arwa</u>, Jabli Mahjoub, Alibi Hamza, Gith Adel ✓ C14: “Manufacture of a Non-Woven from Natural Fibers” <u>Elaissi Arwa</u>, Alibi Hamza, Jabli Mahjoub, Gith Adel ✓ C15: “Pyrolysis of Used Tires: Yield and Chemical Composition of Pyrolysis Oils” <u>Marwa Ourak</u>, Mylène Marin Gallego, Gaëtan Burnens, Sana Kordoghli, Jean François Largeau, Fethi Zagrouba, Mohand Tazerout ✓ C16: “Valorization of Solid Wastes from Food Industry as Biosorbents for the Removal of Cd (II)” <u>Nourhen Hsini</u>, Sonia Dridi-Dhaouadi ✓ C17: “Adhesion Capacity of Carboxymethyl Cellulose from Wheat Straw to Cotton Fibers” <u>Najah Laribia</u>, Samah Maatoug, Riadh Zouaria, Hatem Majdoub, Morched Cheikhrouhou
13H00-14H00	Lunch Break
14H00-16H00	ORAL SESSIONS: MANAGEMENT AND VALORIZATION OF BIORESOURCES AND INDUSTRIAL WASTES (C16-C21)
14H00-15H00	<p style="text-align: center;">Oral Session 3: Management and Valorization of Bio-resources</p> <p style="text-align: center;">Chairman: Pr Karima Horchani & Pr Nizar Meksi</p> <ul style="list-style-type: none"> ✓ C18: “Transformation of Waste Engine Oil into Fuel by Pyrolysis” <u>Youghourta Zerdane</u>, Jean-François Largeau, Naim Akkouche, Hachemi Madjid, Mohand Tazerout ✓ C19: “Investigation of the Effect of Olive Mill Wastewater Sludge Biochar on Seed Germination and Soil Amendment” <u>Salma Mseddi</u>, Wejdene Ben Chelbi, Kamel Halouani, Monem Kallel ✓ C20: “Experimental and Theoretical Investigation of Drying Behavior of Sewage Sludge” Hager Hajji, <u>Amira Touil</u> ✓ C21: “Cellulose from Tamarix Aphylla as Biosorbent for Cadmium Ions Removal” <u>Islem M'barek</u>, Hela Slimi, Younes Moussaoui



15H00-15H40	<p align="center">POSTER SESSIONS: MANAGEMENT AND VALORIZATION OF BIORESOURCES AND INDUSTRIAL WASTES (P18-P21)</p>
	<p align="center">Poster Session 4: Management and Valorization of Bio-resources and Industrial Wastes Chairman : Pr Karima Horchani & Pr Nizar Meksi P18-P21</p> <ul style="list-style-type: none"> ✓ P18: "Co-Composting of Date Palm Wastes and Poultry Manure" <u>Fathia Madi</u>, <u>Ridha Hachicha</u>, <u>Mansour Haddad</u> ✓ P19: "Optimization of Preparation Conditions of Prickly Pear Seed Cake Derived Activated Carbon Using Experimental Design Approach and Its Application for Cadmium Removal" <u>Rimene Dhahri</u>, <u>Asma Bouzidi</u>, <u>Younes Moussaoui</u> ✓ P20: "Valorization of Prickly Pear Seed Waste as Precursor for the Production of Activated Carbons" <u>Nourhen Hsini</u>, <u>Hatem Dhaouadi</u>, <u>Niklas Hedin</u>, <u>Sonia Dridi-Dhaouadi</u> ✓ P21: "Functional Morphology, Physico-Chemical and Thermal Investigations of <i>Opuntia</i> (Cactaceae)" <u>Faten Mannai</u>, <u>Younes Moussaoui</u>
15H30-15H40	<p align="center">Discussions</p>
15H40-17H00	<p align="center">ORAL SESSION: SUSTAINABLE PROCESS AND CLEAN TECHNOLOGIES (C22-C 26)</p>
15H40-17H00	<p align="center">Oral Session 4: Sustainable Process and Clean Technologies Chairman: Pr. Chedly Boudokhane & Pr Nizar Meksi</p> <ul style="list-style-type: none"> ✓ C22: "Ecological Dyeing of Atmospheric Pressure Plasma-Treated Polyester Fabric Using Logwood Dye" <u>Najla Krifa</u>, <u>Wafa Miled</u>, <u>Riadh Zouari</u>, <u>Behary Nemeshwaree</u>, <u>Christine Campagne</u>, <u>Morshed Cheikhrouhou</u> ✓ C23: "Cotton Fibers Dewaxing Effect on Adhesion Capacity of Polyvinyl Alcohol Cold Size" <u>Asma Rahmouni</u>, <u>Sameh Maatoug</u>, <u>Neji Ladhari</u> ✓ C24: "Monoacylglycerol and Diacylglycerol Production by Hydrolysis of Refined Vegetable Oil By-Products Using an



Immobilized Lipase from *Serratia*Sp. W3”

Zarai Zied, Ahlem Edahech, Francesco Cacciola

- ✓ **C25:** Ozone Finishing of Textiles: Waste Management, Sustainability and Toxicity Study

Sarra Ben Hamida, Wafa Miled, NejiLadhari, Mika Sillanpaa

- ✓ **C26:** “Water Minimization in Food Industries by Applying Water-Pinch Analysis”

Keivan Nemati-Amirkolaii, Hedi Romdhana, Marie-Laure Lameloise

Sunday, November01st, 2020

08H00-09H00

Online Registration

09H00-10H30

**ORAL SESSIONS: IDENTIFICATION AND VALORIZATION OF NATURAL SUBSTANCES
(C27-C33)**

09H00-11H00

Oral Session 5: Identification and Valorization of Natural Substances

Chairman: Pr Salah Akkal & Dr Saoussen Hammami

- ✓ **C27:** “Chemical Composition and Antioxidant Activity of Tannins Extract from Green Rind of *Aloe Vera* (L.) Burm. F.”
Bouchra Benzidia, Mohammed Barbouchi, Malak Rehioui, Hind Hammouch, Nadia Belahbib, Najat Hajjaji, Abdellah Shiri
- ✓ **C28:** “In Vitro Antileishmanial Activity of *Artemisia Herba-Alba* Essential Oil from Tunisia”
Zeineb Maaroufi, Sandrine Cojean, Philippe M. Loiseau, Florence Agnely, Manef Abderraba, Ghozlène Mekhloufi
- ✓ **C29:** “Dyeing Properties and Colorfastness of Cotton Dyed with *Corchorus Olitorius* Extracted Natural Dye”
Syrine Ltaief, Nesrine Bhourri, Saber Ben Abdessalem
- ✓ **C30:** “Curcumin Nanoemulsions for aTopical Application”
Mekhloufi Gozlène, Vilamosa N, Agnely Florence
- ✓ **C31:** “Valorization of Mycelium from *PleurotusOstreatus* (Jacq: Fries) Kummer and Production of Chitin and Chitosan”
Nora Benbelkacem Belabbas, Malika Mansour Benamar, Nadia Ammar Khodja, Lydia Adour
- ✓ **C32:** “Effect of Geographic Variation and Extraction Method on the Chemical Composition of *Borago Officinalis* L. Extracts”
Imene Zribi, Ridha Ghali, Manef Abderabba
- ✓ **C33:** “Design of a New Carbonic Anhydrase Inhibitors Derived from 1,5-Benzodiazepines”



Ismail Chiraz, Winum Jean Yves, Gharbi Rafik

11H00-13H00

POSTER SESSIONS: IDENTIFICATION AND VALORIZATION OF NATURAL SUBSTANCES (P22-P32)

Poster Session 5: Identification and Valorization of Natural Substances

Chairman Pr Nouredine Barka & Dr Saoussen Hammami

P22-P26

- ✓ **P22:**“Extraction and Analysis of Phenolic Acids Belonging to Derivatives of Hydroxybenzoic Acids and Hydroxycinnamic Acids by Pls-Irtf-Atr in Plant Extracts”
Nachida Bensemmane, Naima Bouzidi, Yasmina Daghbouche, Mohamed El Hattab
- ✓ **P23:**“Investigation of Green Corrosion Inhibitor Based on *Aloe vera (L.) Burm. F.* for the Protection of Bronze B66 in 3% NaCl”
Bouchra Benzidia, Najat Hajjaji, Abdellah Srhiri
- ✓ **P24:**“Effect of Extraction Technique on Phenolics Compounds and Antioxidant Properties of Green Hull *Pistacia Vera L.*”
Manel Elakremi, Leyre Sillero, Lazher Ayed, Jalel Labidi, Younes Moussaoui
- ✓ **P25:**“Valorization of Industrial Waste from the Lime Peel - *Citrus Aurantifolia* - from the Blida Region (Algeria) by Extracting Essential Oils”
Boudjit Djamilia, Elhadi Djamel, Announ Mohamed
- ✓ **P26:**“Antioxidant Power and Bioactive Effect of (*Rosmarinus Officinalis L.*) Obtained with Non-Conventional Extraction Methods”
Nedra Dhouibi, Concetta Maria Messina, Rosaria Arena, Simona Manuguerra, Maria Morghese, Hatem Dhaouadi

11H30-11H40

Discussions

11H40-12H10

Poster Session 6: Identification and valorization of natural substances:

Chairman Pr Nouredine Barka & Dr Saoussen Hammami

P27-P32

- ✓ **P27:**“Chemical Composition, Antioxidant and Cytotoxic Activities of Essential Oil of Tunisian Plant: *Dittrichia Graveolens*”



Nawres Gharred, Nadir Bettache, Chantal Menut, Sonia Dridi-Dhaouadi

- ✓ **P28:** "Chemical Composition and Antiviral Activity of Essential Oils from *Osmunda Regalis*"
Sihem Bouazzi, Habib Jmii, Ridha El Mokni, Khaled Faidi, Danilo Falconieri, Alessandra Piras, Hela Jaïdane, Silvia Porcedda, Saoussen Hammami
- ✓ **P29:** "Green Synthesis and Characterization of Colored Clays: Cosmetic Applications"
Safa Gamoudi, Amira Amraoui, Ezzeddine Srasra
- ✓ **P30:** "Chemical Composition and Insecticidal Activity of *Clinopodium Nepeta* Subsp. *Nepeta* Essential Oil"
Haïfa Debbabi, Ridha El Mokni, Ikbal Chaieb, Filippo Maggi, Giovanni Caprioli, Saoussen Hammami
- ✓ **P31:** "Composition and Insecticide Potential Against *Tribolium Confusum* of the Essential Oil Extracted from Wild Carrot (*Daucus Carota* Subsp. *Maritimus*)"
Siwar Majdoub, Ridha El Mokni, Ikbal Chaieb, Alessandra Piras, Silvia Porcedda, Saoussen Hammami
- ✓ **P32:** "Micromorphological Investigation and Spectrophotometric Analyse of the Rosmarinic Acid Extracted from Raw Material of Rosmarin (*Rosmarinus Officinalis* L.) Growing in Tunisia and Russia"
Louati Habib, Serebryanaya Fatima, El Mokni Ridha

12H10-12H20

Discussions

12H20-12H40

**POSTER SESSION 7: SUSTAINABLE PROCESS AND CLEAN TECHNOLOGIES:
(P33-P36)**

12H20-12H40

Poster Session 7: Sustainable Process and Clean Technologies:

Chairman Dr Sonia Dridi-Dhaouadi & Dr Saoussen Hammami

P33-P36

- ✓ **P33:** "Zn Based Phosphomolybdates Salts as an Environmentally Substitutes to HNO₃ Use in the Adipic Acid Production"
Dahbia Amitouche, Tassadit Mazari, Sihem Mouanni, Catherine Roch Marchal, Chérifa Rabia
- ✓ **P34:** "New Catalytic Systems for an Eco-Friendly Coumarins Production According to Pechmann Condensation Protocol"
Leila Bennini, Tassadit Mazari, Chahinez Khiar, Malika Makhloufi, Catherine Marchal Roch, Chérifa Rabia
- ✓ **P35:** "Controlled Release Study of a Water-Soluble Drug from Microspheres as Drug Carriers"



	<p><u>Boumediene Fatima Zohra</u>, Faiza Debab, Meryem Mouffok, Haouaria Merine</p> <p>✓ P36: “Fluorescence Quantum Yield of Natural Dye Extracted from Tunisien Plant”</p> <p><u>Nourhène Slama</u>, Manel Ben Ticha, Badreddine Smiri, Ritha Mghaieth, Hatem Dhaouadi</p>
12H40-12H50	Discussions
13H00-14H00	Lunch Break
14H00-16H00	ORAL SESSIONS: ECOLOGICAL TEXTILES AND PARATEXTILES (C34-C40)
14H00-16H00	<p>Oral Session 6: Ecological Textiles and Paratextiles: Chairman Dr Aminoddin Haji & Dr Ramzi Khiari</p> <p>✓ C34: “Ecological Dyeing Process Using Aqueous Residue from <i>Dittrichia Graveolens</i> Hydrodistillation” <u>Nawres Gharred</u>, Nouredine Baaka, Amal Dbeibia, Sonia Dridi-Dhaouadi</p> <p>✓ C35: “Development and Optimization of a New Process to Dye Cotton with Indigo Carmine” <u>Maha Abdelileh</u>, Manel Ben Ticha, Nizar Meksi</p> <p>✓ C36: “Fabric’s Thermal Properties Modification Through the Nanocomposite Coating” <u>Sawssen Ezzine</u>, Khaled Abid, Nèji Ladhari</p> <p>✓ C37: “Capillary Water Absorption in a Coated Waterproof Breathable Double-Sided Knit” <u>Imene Ghezal</u>, Ali Moussa, Imed Ben Marzoug, Ahmida El-Achari, Christine Campagne, Faouzi Sakli</p> <p>✓ C38: “Ecological and Clean Process for Dyeing Advanced Bicomponent Polyesters Filaments (PET/PTT)” <u>Marwa Souissi</u>, Mounir Zaag, Nizar Meksi, Hatem Dhaouadi</p> <p>✓ C39: “A New Natural Color Indicator Extracted from <i>Carissa Macrocarpa</i> Fruit” <u>Imene Ghezal</u>, Ibtissem Moussa, Faouzi Sakli</p> <p>✓ C40: “Accelerated Weathering of Recycled Nonwovens Used as Sustainable Agrotextiles” <u>Houcine Abidi</u>, Sohel Rana, Walid Chaouch, Bechir Azouz, Mohamed Ben Hassen, Raul Fanguero</p>
16H-16H40	POSTER SESSIONS: ECOLOGICAL TEXTILES AND PARATEXTILES



	(P37-P41)
16H00-16H30	<p style="text-align: center;">Poster Session 8: Ecological Textiles and Para-textiles</p> <p style="text-align: center;">Chairman: Pr Saber Ben Abdessalem & Dr Ramzi Khiari</p> <p style="text-align: center;">P37-P41</p> <ul style="list-style-type: none"> ✓ P37: "Effect of Parameter of Pumice Stone Washing on the Bagging Properties of Denim Garments" <u>Ben Fraj Abir</u>, Gazzah Mouna, Boubaker Jaouachi ✓ P38: "Microwave-Assisted Extraction and Dyeing of Bicomponent Polyesters Filaments with Fluorescent Natural Dye" <u>Marwa Souissi</u>, Mounir Zaag, Nizar Meksi, Hatem Dhaouadi ✓ P39: "Sustainable Dyeing of Wool Fabric Using <i>Kermes Oak</i> as Source of Natural Colorant" <u>Noureddine Baaka</u>, Adel Mahfoudhi ✓ P40: "Rheological study of Ecological Printing Pastes on the Quality of Printed Cotton Fabrics" <u>Ben Fadhel Amal</u>, Haddar Wafa, Miled Wafa, Meksi Nizar ✓ P41: "Relation Between Mechanical Properties of PVC Synthetic Leather and Calcium Carbonate" <u>Mouna Stambouli</u>, Slah Msahli, Sondes Gargoubi, Walid Chaouch, Riadh Zouari, Aweb Baccar
16H30-16H40	Discussions
16H40-17H10	POSTER SESSIONS: SUSTAINABLE PROCESS AND CLEAN TECHNOLOGIES (P42-P45)
16H40-17H00	<p style="text-align: center;">Poster Session 9: Sustainable process and clean technologies:</p> <p style="text-align: center;">Chairman: Pr Hatem Dhaouadi & Dr. Ramzi Khiari</p> <p style="text-align: center;">P42-P46</p> <ul style="list-style-type: none"> ✓ P42: "Green Synthesis of α-Aminophosphonates from α-Amino Acids Esters Under Microwave Irradiations" <u>Sara Boughaba</u>, Zineb Aouf, Nour-Eddine Aouf ✓ P43: "Effects of Microorganisms on Materials and the Environment" <u>Hannachi Mohamed Tahar</u>, Bradji Mohamed



- ✓ **P44:** “Viscosity of Imidazolium-Based Ionic Liquids At Different Temperatures: Cation and Anion Effects”
Affaf Djihed Boualem, Ali Mustapha Benkouider, Ahmed Yahiaoui, Aicha Hachemaoui
- ✓ **P45:** “Green Sustainable Process for the Synthesis of Daiazaphospholidine”
Bouchareb Fouziaa, Diaf Ilhem, Berredjem Malika, Aouf Nour-Eddine

17H00-17H10

Discussions

17H10-17H30

Closing ceremony:



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