

PROGRAM of ETCC2022 European Technical Coatings Congress

ORAL PRESENTATIONS

12 July 2022

TIME						
08.45-09.00	ETCC2022 Opening Ceremony					
09.00- 09.45	PLENARY SESSION K.Kruithof Netherlands Creating Value through Innovation and Collaboration					
09.45-10.30	PLENARY SESSION M.Soucek USA Advances in Self-Stratified Coatings					
10.30-11.00	Coffee Break					
	Parallel SESSION 1	Parallel SESSION 2	Parallel SESSION 3	Parallel SESSION 4	Parallel SESSION 5	
11.00 - 12.30	A4.3 M.Sibi USA Synthesis of Biomass Derived Monomers for Coating and Polymer Applications	B1.1 V.Gutowski Australia Electroconductive and adhesion-promoting interphases	C2.1 F.Doğan Turkey Investigation of structural and corrosion properties of pulse electrodeposited Ni-B/SWCNT composite coating.	A12.3 A.Francis USA Modern Weathering Testing of Paints and Coatings: Fluorescent UV & Xenon Arc	A16.3 B.Münzing China Innovative Coating Products with Graphene	
	A5.1 G.Gaggero Italy Rheological properties and application performances of water-based paints containing alginates	B1.2 H.Bi Denmark Coating degradation and rust creep assessment - A comparison between a destructive method according to ISO 12944 and selected non-destructive methods	C2.2 S.Plebst Germany Ionic Liquids and Nanomaterials Dispersions – Innovative Additives for Coatings and Paints	A12.2 A.Schoenlein Germany Laboratory Weathering with H2O2 Spraying	A17.3 N.Guy France Design of an acrylic photoresist for cataphoresis process	
	A5.2 G.Delmas France Surface-controlled waterborne binders for improved HEUR & HASE thickeners efficiency to achieve optimum paints rheological profile	B1.3 I.Willerich, Germany Quick curing mechanisms for architectural all-season coatings	C2.3 A.Sahut France Isosorbide and derivatives for bio-based and performants coatings	A12.1 M.Osterhold Germany Scratch/Mar, Surface Structure and Rheology Measurements	C10.3 W.Tomal Poland From the synthesis of new biphenyl photoinitiators to the formation of highly cross-linked polymer products for 3D printing and coating industry	
12.30-13.30	Lunch Break					
						Parallel SESSION 6
13.30-15.00	A2.1 P.Najmi Iran Using mixture experimental design to study the effect of epoxidized soybean oil acrylate oligomer on UV cured epoxy acrylate resins	B2.1 B.Liu China Preparation and application of fluorescent probe enhanced by quantum dots for early corrosion detection at carbon steel/coating interface	C4.1 S.Rossi Italy Durability and aesthetic properties of acrylic cataphoretic coatings admixed with silica powder and thermochromics pigments	A.9.1 S.Kirsch Germany Interaction and diffusion phenomena in 2K water-borne polyurethane systems for industrial coatings	A21.2 R.Czarnecki USA Aluminum oxide nanocomposite wax powders for improved scratch resistance	A5.3 M.Smiglak Poland Implementation of additives from renewable sources in epoxy composites with lower negative environmental impact
	A2.2 R.Nothhelfer-Richter Germany Comparative investigations of UV curing coatings using LED- versus Hg-lamps	B2.2 A.Franczyk Poland Synthesis of new organosilicon derivatives for coating applications	C4.3 V.Kurbatov Russia The investigation of core-shell pigments properties based on inorganic fillers and polyaniline	A9.3 M.Bourguignon Belgium Water-based and CO2-sourced polyhydroxyurethane coatings	A21.1 M.Fernández-Álvarez Spain Manufacture and characterization of polyamide coatings with silica nanoreinforcements	A7.2 U.Gumsheimer Germany Colourful solar modules: Interference layer for low power loss
	A2.3 D.Ehrhardt Belgium Self-healing UV-curable polymer network layers for photovoltaic applications	B2.3 S.Beuck Germany Silane functional polyisocyanates and prepolymers and their coating applications - A novel approach	C5.1 A.Okkel Germany Modelling of wetting & dispersing additives	A9.2 W.Paulus Germany 1K Crosslinking System for Polyurethane Dispersions	A16.1 E.Langer Poland Mechanisms of protection by coatings with a reduced content of zinc pigments	A6.3 M.Ebrahimi Iran Preparation, Characterization and Microencapsulation of Coconut oil/ Graphene Composite as PCM for Thermal Energy Storage
15.00-15.30	Coffee Break					
15.30-17.00	A3.1 Y.Nagazi France A novel method for coatings characterization at high temperature	B3.1 M.Widrat Germany Graphene-Based Anti-Friction Coatings	C4.2 M.Calovi Italy Cataphoretic deposition of organic coatings with functionalized graphene oxide flakes	A10.1 C.Uzoh Nigeria Appraisal of Mathematical Modeling of Alkyd Resin Polycondensation Reactor	A19.1 Huzaifa Matawala -Paint Recyclist-Reger	A7.3 M.Gedan-Smolka Germany Novel polyetherimide (PEI) antifriction coatings with chemical bonded PTFE as lubricant
	A7.1 O.Tiedje Germany Paint properties for oversprayfree painting technologies based on drop on demand principles	B3.2 R.Wollrab Slovenia Novel Polyester Resins for Coil Coatings	C9.1 HJ.Jacob Germany Vacuum Inline Dispersion saves Titanium Dioxide and inducts dust free	A10.2 A.Królikowska Poland Carelessness in morphology design can affect organic coatings performance	A19.2 L.Heinrich Germany Sustainable binder material for offset printing inks based on lignin: Synthesis, properties, application	A3.3 K.Wojtas Poland Computational fluid dynamics of particle break-up in a new type of industrial batch homogenizers
	A4.1 L.Eijsink Netherlands	B3.3 B.Toirac Spain	C8.2 T.Lys Switzerland	A10.3 M.Vitale Italy	A8.2 M.Dahmen Germany	A8.3 R.Krzosa Poland

13 July 2022

09.00- 09.45	<p style="text-align: center;">PLENARY SESSION S.Herrwerth Germany New solutions for Coatings: Taking you on a journey from current developments to future trends and beyond</p>					
09.45-10.30	<p style="text-align: center;">PLENARY SESSION A.Rössler Austria Functional wood coatings - Challenges and opportunities</p>					
10.30-11.00	Coffee Break					
Time	Parallel SESSION 1	Parallel SESSION 2	Parallel SESSION 3	Parallel SESSION 4	Parallel SESSION 5	Parallel SESSION 6
11.00 - 12.30	<p>B6.1 B.Strehmel Germany Physical and Chemical Drying of Diverse Coatings Comprising Green Photocatalysts and Alternative Absorbers covering the UV, Blue and NIR Range with New LED Techniques</p>	<p>B4.2 E.Bertin France The impact of minerals on the stain resistance of water based decorative matt paints</p>	<p>C10.1 E.Duru Turkey Corrosion and wear behaviour of Ni-B/Al₂O₃ composite coating by electrodeposition on stainless steel substrate.</p>	<p>A1.2 N.Rajagopalan Denmark Barrier properties of an epoxy novolac resin system under conditions of high pressure and high temperature: Influence of inorganic fillers and its morphology</p>	<p>A6.1 N.Farshchi Germany Self-healing through Diels-Alder Reaction in uretdione based powder coating</p>	<p>A11.1 C.Uzoh Nigeria Synthesis of Rubber Seed Oil Waterborne Alkyd Resin from Glucitol</p>
	<p>A21.3 M.Gedan-Smolka Germany Multi-functional organic coatings-fundamentals and application oriented research at the IPF</p>	<p>B4.3 V.Strehmel Germany Wetting of Polymeric Binders Derived from Traditional and Ionic Polymethacrylates</p>	<p>C6.1 M.Zielecka Poland Recent achievements in silicone-based flame resistant coating materials</p>	<p>A22.3 V.Gutowski Australia Multi-modal superhydrophobic coatings for self-cleaning, icephobic,</p>	<p>C1.2 N.Kargarfard Germany Eco-friendly self-stratifying powder coating materials with corrosion resistance and weather protection property</p>	<p>A15.2 S.Van Loon Netherlands Digitalization of formulation developments via predictive sciences</p>
	<p>C8.1 W.Bremser Germany Coatings, Materials and Polymers</p>	<p>B4.1 J.Trzaskowska Poland Aqueous silicone-acrylic/styrene and acrylic/styrene-silicone dispersions with hybrid particle structure for coating applications</p>	<p>C6.2 G.Durand United Kingdom Fluorine free superhydrophobic coatings and surface treatments: addressing the durability challenge</p>	<p>A23.1 S.Yomo Japan Improving appearance of multilayer coating films for automotive bodies</p>	<p>13.1 M.Groenewoud Netherlands Novel Catalyst for Reduced Temperature Cure Powder Coatings</p>	<p>A15.3 AH.Bonardi Germany Digital model as a tool to accelerate development of coating formulation recipes</p>
12.30-13.30	Lunch Break					
13.30-15.00	<p>A14.1 M.Hilt Germany Paints, Coatings and Varnishes – a Research and Development Focus of Fraunhofer Gesellschaft</p>	<p>B5.1 M.Vogel Germany Toughen your Architectural formulations with innovative particles - Novel Synthetic Silica Engineered for Improved Durability and Burnish Resistance</p>	<p>T.Zieliński Keynote Speaker Poland Trends and challenges – new business model of chemical Industry in Europe</p>	<p>D2.1 B.Erich Keynote Speaker Netherlands Solar control coatings for heat harvesting of building façades</p>	<p>A13.2 M.Cudazzo Germany Increase of powder coating quality and material efficiency by the use of a new smart control process</p>	<p>A19.3 S.Buchbach Germany A Holistic Concept for Coating Monitoring and Maintenance on Offshore Wind Power Constructions</p>
	<p>A14.3 V.Stenzel Germany Fraunhofer IFAM - From Raw Materials to Functional Coatings</p>	<p>B6.3 Z.Bojarska Poland Designing hybrid nanocomposites based on molybdenum disulphide and carbon nanomaterials for enhanced photo-electrocatalytic properties</p>	<p>C.Davidson Keynote Speaker Belgium Paint it green. The EU initiatives that the paint industry is facing</p>	<p>D2.2 H.Yahyaie Iran The effect of castor oil on properties of carboxy methyl cellulose based edible coating</p>	<p>A13.3 M.Cudazzo Germany Thermally conductive powder coatings</p>	
	<p>A14.2 M.Hilt Germany</p>	<p>B7.1 V.Fritzemeier Switzerland</p>	<p>J.Akkerman Keynote Speaker Netherlands</p>	<p>D2.3 D.Wojda Poland</p>	<p>B8.1 M.Bosma Netherlands</p>	
15.00-15.30	Coffee Break					
15.30-17.00	<p>B7.3 O.Strube Germany Beyond Sustainability – Bioinspired Coating Innovations</p>	<p>A17.1 T.Brock Germany Autodeposition Coatings – an Alternative to EDC?</p>	<p>C3.3 R.Severac France Rediscovering the unique versatility of alkanolamines to optimize next-generation paint formulations</p>	<p>D1.1 T.Wieckowski Poland Coatings Appearance Measurements – new developments and trends</p>	<p>B8.2 B.Pilch-Pitera Poland New biobased polyurethane powder coatings for painting low temperature resistance substrates</p>	
	<p>C3.1 M.Groteklaes Germany Introduction to the German Research Landscape for Coating Chemistry and Technology</p>	<p>B5.3 D.Golotta Germany ACT strategy – the PFINDER way to reduced emission and improved odor</p>	<p>C1.1 B.Naden United Kingdom Enhancing sustainability in the manufacture and disposal of paints and coatings</p>	<p>D1.2 H.Yahyaie Iran PhotoDSC study of Titanium Dioxide Pigmented UV-cured Coatings: Anatas Polymorph against Rutile Polymorph</p>	<p>C1.3 D.Czachor Poland UV curable biobased powder coatings</p>	
	<p>C11.3 C.Schmitz Germany</p>	<p>C10.2 N.Salazar Spain</p>	<p>C5.3 S.Ulf Germany</p>	<p>D1.3 T.Karavayev Ukraine</p>	<p>A6.2 C.Schreiner Germany</p>	
14 July 2022						
Time	Parallel SESSION 1	Parallel SESSION 2	Parallel SESSION 3	Parallel SESSION 4	Parallel SESSION 5	
09.00-10.30	<p>A11.3 C.Webster USA Coatings binder systems from high functionality bio-based seed-oil derived resins</p>	<p>B5.2 M.Vogel Germany Optimization of wet and dry hide in Architectural paints</p>	<p>C5.2 MY.Heuer Germany VOC-Toolbox – More Freedom for Coatings Formulators</p>	<p>A20.1 M.Farooq Netherlands ZEFFLE-GKD: A water-borne 2-component fluorinated dispersion polymer for highly chemical resistant and long-lasting coatings</p>	<p>A22.1 C.Bauder Germany Photocatalytic active coatings for air purification</p>	
	<p>A11.2 P.Van Waes Netherlands</p>	<p>B6.2 E.Hola Poland</p>	<p>C3.2 P.Wrona Poland</p>	<p>A20.2 Jouko Vyörykkä Switzerland</p>	<p>A22.2 A.Rabajczyk Poland</p>	
	<p>A18.1 P.Struelens Belgium Keto fatty acids for faster drying alkyd resins.</p>	<p>B7.2 G.Kütahya Germany New Strategies for Coatings 2020: Controlled Polymer Synthesis based in NIR Technologies</p>	<p>C8.3 M.Heuer Germany Achieving the next level of durability without reformulation – New hardener for ambient curing high heat resistant coatings</p>	<p>A20.3 SJ.Bohorquez Netherlands Assessing the performance of fructose-based electrosterically stabilized latexes in decorative paints</p>	<p>A23.2 G.Jaunky Germany New Tools to Tune the Wettability of Multi-layer Coatings!</p>	

10.30-11.00	Coffee Break				
11.00-12.30	A4.2 S.Govers Netherlands Surface segregation of silicon-containing block copolymers in coatings	C11.2 A.Rybak Poland Functional coatings for sand printed moulds for casting of electrical insulation in energy distribution systems	C7.2 M.Martinez Spain Bugphobic coatings with omniphobic properties for aerodynamics surfaces	C11.1 M.Topa Poland Production of polymer coatings by photopolymerisation using novel, effective photoinitiators and simultaneously colorimetric sensors to control the quality of the process	A17.2 T.Krawczyk Germany Characterization of water and electrolyte transports in autophoretic corrosion protection coatings
	A1.1 N.Taleghani Iran The synergic effect of SAPP and sodium molybdate in an organic coating on corrosion resistance of galvanized steel	C7.1 M.Heuer Germany More Durability of Coatings by Enhancing Scratch and Abrasion Resistance	C6.3 S.Jurczyk Poland Prediction of protective properties of coatings based on glass transition temperature value	A18.3 U.Schoknecht Germany The impact of weather conditions on biocides in paints	A16.2 J.Lach Poland Anticorrosive coating materials based on Zn-particles
	A1.3 K.Szubert Poland	A15.1 K.Cremanns Germany	C7.3 C.Lanzerstorfer Austria	A3.2 E.Reuter Germany	A18.2 E.Matušková Czech Republic
12.30-13.30	Lunch Break				
13.30-14.15	PLENARY SESSION T.May Germany What is the Appropriate Response of the Coatings Industry with Regard to the Ongoing Process of Reclassification of Compounds ?				
14.15-15.00	ETCC2022 Awards & Closing Ceremony.				

ETCC2022 EXHIBITION SESSIONS available on 12-14 July 2022 within the congress time.

POSTERS PRESENTATION SESSION on 12-14 July 2022

1	J.Bootsma Netherlands On the development of new Fe-based driers for alkyd curing
2	JM.Kim Korea, South Study on the effect of modifying the coating system to improve the properties of PCM made of high corrosion resistance coated steel sheets
3	M.Zubielewicz Poland Anti-graffiti properties depending on the value of the free surface energy of coatings
4	L.Wagner Germany Automated characterization of technical surfaces
5	Y.Yung Chi Taiwan The Study of Novel Hybrid Stabilizers against Instant Yellowing during Curing, Weathering, and Heat Resistance for Waterborne UV-curable Coatings
6	A.Kalendová Czech Republic Formulation of paints containing environmentally friendly pigments modified by conductive polymer salts for anticorrosion protection of metallic substrates
7	G.Gil Alvaradejo Norway Versatile dispersing agents for waterborne coatings
8	M.Ebrahimi Iran Effect of epoxidized soybean oil acrylate oligomer composition on UV curable epoxy acrylate formulations: experimental design approach
9	T.Poplata Germany Photoinitiated Radical Polymerization for Generation of High-Crosslinked Layers with Deep Thicknesses
10	A.White Finland Minimizing TiO ₂ usage in Coatings systems by accurately measuring Wet Hide : Optimization whilst maintaining Wet Hide Performance
11	A.Skripinets Ukraine Vibration absorbing epoxyurethane products and coverings of building appointment
12	E.Traply Hungary Difficulties in PVC/CPVC based formulations of silicon based coatings
13	J.Rumpf Germany Novel cellulose-beeswax-lignin composites as coating material for paper packaging
14	C.Castillo Chile Novel wood preservative compounds based on metallic copper nanotechnology. CCA replacement alternative and new coatings for surface protection.
15	S.Waškiewicz Poland Self-stratifying coatings based on Schiff base epoxy resins.
16	L.Mu Switzerland Novel Application of Carbodiimide-based System in Coatings
17	A.Makarov Russia Obtaining microcapsules from polymethylmethacrylate for use in protective coatings obtained by electrodeposition

18	Y.Guo United Kingdom The study of graphite/graphene-based conductive ink formulations
19	D.Steinerová Czech Republic Effect of pigments and fillers on properties of new acrylate dispersion containing nanoparticles MgO
20	M.Quast Germany Detection of bacterial contamination of process liquids in painting processes and avoidance by means of environmentally friendly, biocide-free techniques
21	J.Ortyl Poland Development of New High-Performance Photoinitiating Systems and Their Applications in Polymer Coating Industry
22	J.Schultz Chile Antimicrobial protection for surfaces by aqueous low-cost metallic copper nanoparticles.
23	M.Nowicka-Nowak Poland Dirt pick-up resistance for waterborne coatings on wooden and mineral surfaces
24	P.Vlasák Czech Republic Polyglycerine – catalysts for synthesis
25	M.Kazemi Iran Evaluation of pigments volume concentration through different methods resulted from EIS
26	W.Janik Poland Preparation of a flame-retardant polypropylene coating
27	N.Skopintseva Russia The influence of hydroxy-functional polyester on corrosion performance of polyurethane coatings
28	J.Karasiewicz Poland (Poly)siloxanes as precursors of anti-fog materials
29	B.Sieredzinska Netherlands Light-controlled crosslinking in polymers
30	D.Łoś Poland Wood protective coatings prepared with silanes based on fatty acids
31	Z.Ranjbar Iran The effect of n-Hexyl glycol and pigment to binder ratio on deposition behavior and edge coverage of water borne epoxy urethane electrocoatings
32	B.Leśniewski Poland Functional polysiloxanes as effective waterproofing coating materias
33	J.Foth Germany Improved Anti-Fouling Performance in Cuprous Oxide based coatings through incorporation of modified fumed silica
34	A.Silaeva Russia Structure of polymer coatings filled with nanosized particles obtained by the method of cathodic e-coating
35	F.Ciesielczyk Poland Coatings with increased hydrophobicity and self-cleaning effect dedicated for laminated structures
36	J.Machotová Czech Republic Self-crosslinking acrylic latex with embedded inorganic nanoparticles: Comparison of nanosized ZnO and MgO as ionic crosslinking agents
37	S.C.Massmann Netherlands Selective modification of unprotected carbohydrates for crosslinking in waterborne coatings
38	S.Kim Korea, South Core-shell Fabrication of MWCNT-AIN/Poly(phenylene sulfide) Composite for High Thermal Conductivity With Effect of Electrical Insulation.
39	A.Dziechciarz Poland Toxicity of selected fire protective coatings for wood
40	E.Sinnema Netherlands Revisiting autoacceleration in vinyl ester polymerization
41	N.Meckbach Germany NIR Light-induced photo-ATRP with Methacrylates Comprising UV-Absorbers and Their Transfer to Azide-Alkyne Click Chemistry
42	A.Szymańska Poland Alkoxy silane-grafted polybutadienes as effective coating materials
43	A.Kostitsyn Russia The influence of mineral fillers on physical and chemical properties of UV curable coating compositions
44	A.Szpecht Poland Allyl based ionic liquids as polymerization initiators for DGEBA systems
45	D.Oprych Germany Up-Conversion Nanoparticles as Interface between NIR and UV Radiation in Modern Coatings

46	J.Zieglerova Czech Republic A New Styrene Acrylic to Manage Formulation Costs While Maintaining High Performance
47	S.Sheikhmous Germany Photoinitiation and Depolymerization on Demand with New Hexaarylbiimidazoles in Coatings for the Next Decade
48	J.Jurek-Suliga Poland How can organic coatings stability be traced with modern analytical technique: FTIR spectroscopy and electrochemical Scanning Kelvin Probe
49	M.Kohl Czech Republic The effect of CP's coated 2D sulphides on corrosive and mechanical properties of organic coatings containing of zinc metal particles.
50	C.Schmitz Germany Digital Database Structures and Workflows for Intelligent Automation
51	K.Ollik Poland Study of anti-corrosion properties of electrophoretically deposited doped graphene oxide coatings
52	G.Bissadi Germany Image Recognition and Machine Learning - Substituting Human Vision
53	M.Kumosiński Poland PVB modified with alkyl resins
54	H.Siebe Netherlands Modifying gum arabic to act as binder for water-borne paints
55	J.Vlašáková Czech Republic Application of Nuvolve Engineered PolySaccharides in Coatings
56	M.Kaczmarek Poland Organofunctional polysiloxanes as precursors of hydrophilic materials
57	A.Musto Germany Unique Cobalt-Free Driers for Improved Dry Times and Other Added Benefits in Oxidative Cured Systems
58	A.Krasuska Poland Application of the ATR-FTIR technique for the quantitative analysis of modifiers in polyolefin coatings
59	I.Barszczewska-Rybarek Poland The influence of polyurethane roof insulation thermal aging in air and seawater on structural, physico-chemical and mechanical properties
60	P.Dziendziol Poland Synthesis of new oligoesters based on waste poly(ethylene terephthalate) and dimerised fatty acids as a binder for polyurethane organic coatings.
61	K.Jędrasiak Poland Experimental research on a hydrophobic, self-regenerating coating for protection of the surface of painted vehicles
62	A.Mielańczyk Poland Surface chemical modification of commercial catheters via SI-ATRP
63	A.Issayeva Kazakhstan Development of water cycles for sewage treatment of dye-finishing production
64	D.Zieliński Poland Latent curing formulations for epoxies with HMTA based ionic liquids as an active ingredient
65	A.Przybylska Poland Hydrophobization of natural fiber surface with organosilicon compounds
66	P.Bohacik Czech Republic Surface Treatments for Bonding of Polyether ether ketone with Thermoset Matrix of Fiber Composites
67	Z.Bojarska Poland Nanosized MoS ₂ deposited on carbon nanomaterials as the new lubricant additive for engine oils
68	A.Kazek - Kęsik Poland New approach of hybrid layer on titanium dental implants

ETC2020 Congress Presentation Topics.

A. Advances in Sciences of Paints & Coatings, Adhesives, Construction Materials, Printing Inks and related products
B. Chemical composition, formulations and products specification
C. Polymers and other raw materials range
D. Advances in processing and production