



16th Coatings Science International Conference

Preliminary program – [Virtual CoSI 2021 – 29th June – 01st July](#) (subject to changes!)
[Registration](#) is Open!

Tuesday, 29th June 2021

8:00 - 9:00	Check in (Log in to platform and setting of individual profile: get a picture ready!)
8:45 - 9:00	Welcome in the Conference Lobby/Chat/ Good morning! <i>Chairs: Catarina Esteves & Mats Johansson</i>
9:00 – 9:15	Opening Session (Live stream)

Session I

Chairs: Keimpe van den Berg & Mats Johansson & Stefan Govers (RedTeam)

9:15 – 9:40	O1- Christine Jérôme University of Liège, Liège, Belgium (B) High performance isocyanate-free polyurethane adhesives (25 min)
9:40 – 10:00	O2- George Hermens University of Groningen, Groningen, The Netherlands (NL) A coating from Nature (20 min)
10:00 – 10:20	O3- Jenifer Li Université Montpellier, Montpellier, France (FR) Synthesis of biobased waterborne coatings from renewable building blocks (20 min)
10:20 – 10:40	Networking Carrousel – (20 min)
10:40 – 11:00	Coffee/Tea Break (20 min) + extension of Networking Carrousel

Session II

Chairs: Rolf van Benthem & Catarina Esteves & Luuk Moone (RedTeam)

11:00– 11:25	O4- Stephan Roth DESY, Hamburg, Germany, and KTH Royal Institute of Technology, Stockholm, Sweden (SE) Swelling behavior on multilayer 3D printable photocurable resins (25 min)
11:25 – 11:45	O5- Xinyu Jiang Technical University of Munich, Munich, Germany (D) Tracking the morphology evolution of active layers for non-fullerene organic solar cells (20 min)
11:45 – 12:05	O6- Amandine Briand Imerys Minerals Ltd, United Kingdom (UK) The impact of paint PVC and solids on optical and mechanical properties in matt decorative paint (20 min)



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12:05 – 12:20	<p>Poster Session A – Pitch presentations (15 min) P1- Stefan Govers Eindhoven University of Technology (NL) Controlled block copolymer segregation for functional coating surfaces (5 min)</p> <p>P2- Andrei Chumakov Deutsches Elektronen-Synchrotron (DESY), Hamburg, Germany (D) Cellulose nanocomposite with SrFe₁₂O₁₉ nanoparticles as a novel magnetic nanopaper coating (5 min)</p> <p>P3- Shicong Luo Technical University of Denmark (DTU), Lyngby, Denmark (DK) On-line, non-Newtonian capillary rheometry for coatings production (5 min)</p>
12:20 -12:35	<p>Poster Session A – Q&A – individual parallel discussions (15 min) P1- Stefan Govers - <i>Luuk Moone (RedTeam)</i> P2- Andrei Chumakov - <i>Joeri Opdam (RedTeam)</i> P3- Shicong Luo - <i>Siyu Li (RedTeam)</i></p>
12:35-13:20	Lunch break (45 min)

Session III

Chairs: Søren Kiil & Mats Johansson & Siyu Li (RedTeam)

13:20 – 13:45	<p>O7- Alexander Routh University of Cambridge, Cambridge, United Kingdom (UK) Making Rubber Gloves (25 min)</p>
13:45 – 14:05	<p>O8- Joeri Opdam Eindhoven University of Technology, Eindhoven, The Netherlands (NL) Effect of interactions with the coating formulation on the interfacial affinity of block copolymers (20 min)</p>
14:05 – 14:25	<p>O9- Jochen Dreyer Technical University of Denmark, Lyngby, Denmark (DK) Quantitative pore structure characterization of intumescent chars (20 min)</p>
14:25 – 14:40	<p>Poster Session B – Pitch Presentations (15 min) P4- Hanneke Siebe University of Groningen, Groningen, The Netherlands (NL) Modifying gum arabic to act as binder for water-borne paints (5 min)</p> <p>P5- Qiong Li Technical University of Denmark, DTU, Lyngby, Denmark (DK) The evolution of coating properties and internal stress during ambient curing of a two-component epoxy coating (5 min)</p> <p>P6- Panayiota Koutsaftiki BFP Advanced Technologies G.P, Attica, Greece (GR) Proposing a sustainable methodology for the development of a robust, anti-soiling transparent coating with enhanced antimicrobial properties for smooth, non-absorbent surfaces (5 min)</p>



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14:40 – 14:55	Poster Session B – Q&A– individual parallel discussions (15 min) P4-Hanneke Siebe – <i>Siyu Li (RedTeam)</i> P5- Qiong Li – <i>Stefan Govers (RedTeam)</i> P6- Panayiota Koutsaftiki – <i>Luuk Moone (RedTeam)</i>
14:55–15:15	Coffee/Tea Break & Networking Carrousel (parallel 20 min)

Session IV

Chairs: Mats Johansson & Catarina Esteves & Joeri Opdam (RedTeam)

15:15 – 15:40	O10- Mark Nichols Ford Motor Company, Dearborn, United States of America (USA) Stone Chipping of Automotive Coating Systems: Experiments and Simulations (25 min)
15:40 – 16:05	O11- Marshall Ming Georgia Southern University, United States of America (USA) Super-repellent antibacterial surfaces (25 min)
16:05 – 16:35	Need to chill-out? Virtual Drinks & Networking Carrousel (parallel 30 min)

Wednesday, 30th June 2021

8:45 – 9:15	Check in and Good morning! Got your breakfast?
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Session V

Chairs: Rolf van Benthem & Catarina Esteves & Luuk Moone (RedTeam)

9:15 – 9:40	O12- Nadine Pébère CIRIMAT, Toulouse, France (FR) Towards a better understanding of blistering mechanisms of coil coated steel materials: an impedance study (25 min)
9:40 – 10:00	O13- Sebastian Weiss Byk-Altana, Wesel, Germany (D) Modelling of wetting & dispersing additives (20 min)
10:00 – 10:20	O14- Rosella Telaretti Leggieri KTH, Royal Institute of Technology, Stockholm, Sweden (SE) CNFs as reinforcing nanofillers for polymeric matrices (20 min)
10:20 – 10:40	



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	Networking Carrousel (20 min)
10:40 – 11:00	Coffee/Tea Break (20 min) + extension of Networking Carrousel
Session VI	
<i>Chairs: Catarina Esteves & Mats Johansson & Rosella Leggieri (RedTeam)</i>	
11:00 – 11:25	O15- Søren Kiil Technical University of Denmark, Lyngby, Denmark (DK) Wet clay adhesion to antistick coatings (25 min)
11:25 – 11:45	O16- Philip Knospe Hochschule Niederrhein University of Applied Sciences, Germany (D) High performance polymer networks from novel crosslinking reactions (20 min)
11:45 – 12:05	O17- Daryl Williams SMS- Surface Measurement Systems, London, United Kingdom (UK) Swelling and Moisture Uptake in Polyvinylpyrrolidone Thin Films (20 min)
12:05 – 12:20	Poster Session C – Pitch Presentations (15 min) P7- Gabor Ersek University of Groningen, Groningen, The Netherlands (NL) Quantitative Depth Resolved Analysis of Soft Polyacrylate Coatings (5 min)
	P8- Iuliana Ribca KTH Royal Institute of Technology, Stockholm, Sweden (SE) Effect of different thiol crosslinkers on lignin based thermoset coatings (5 min)
	P9- Chunping Qi Technical University of Denmark, Lyngby, Denmark (DK) Investigation and improvement of zinc-rich coatings for the corrosion protection of steel (5 min)
12:20 – 12:35	Posters C – Q&A– individual parallel discussions (15 min) P7- Gabor Ersek – Luuk Moone (<i>RedTeam</i>) P8- Iuliana Ribca – Siyu Li (<i>RedTeam</i>) P9- Chunping Qi – Rosela leggieri (<i>RedTeam</i>)
12:35 – 13:20	Lunch break (45 min)



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Session VII

Chairs: Christian Schaumberg & Catarina Esteves & Joeri Opdam (RedTeam)

13:20 – 13:45	O18- Santiago Garcia Delft University of Technology, Delft, The Netherlands (NL) Real-time optics with high space-temporal resolution to study underwater processes in metals and coatings (25 min)
13:45 – 14:05	O19- Joseph Watson Northumbria University, Newcastle / AkzoNobel, United Kingdom (UK) Triggered, responsive polymers for active corrosion protection (20 min)
14:05 – 14:25	O20- Michael Dornbusch Krefeld University of Applied Sciences, Krefeld, Germany (D) What is the rate-determining step in the delamination from a defect of organic coatings on a metal substrate? (20 min)
14:25 – 14:40	Poster Session D – Pitch Presentations (15 min) P10- Linda Eijssink Rijksuniversiteit Groningen, Groningen, The Netherlands (NL) Operando spectroscopy of vinyl-ester styrene resin curing in the development of novel catalysts (5 min)
	P11- Qing Chen Deutsches Elektronen-Synchrotron, Hamburg, Germany (D) Layer-by-layer Spray Coating of Cellulose Nanofibrils and Silver Nanoparticles for Hydrophilic Interfaces (5 min)
	P12- Tejasvi Laxminarayan Technical University of Denmark, DTU, Lyngby, Denmark (DK) Rheology of Intumescent coatings (5 min)
14:40-14:55	Poster Session D – Q&A– Individual parallel discussions (15 min) P10- Linda Eijssink – <i>Iuliana Ribca (RedTeam)</i> P11- Qing Chen – <i>Siyu Li (RedTeam)</i> P12- Tejasvi Laxminarayan – <i>Luuk Moone (RedTeam)</i>
14:55 – 15:15	Coffee/Tea Break & Networking Carrousel (parallel 20 min)



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Session VIII

Chairs: Mats Johansson & Catarina Esteves & Stefan Govers (RedTeam)

15:15 – 15:40	O21- Kevin Golovin University of British Columbia, Vancouver, British Columbia, Canada (CA) Understanding interfacial cavitation in the design of low-ice-adhesion surfaces (25 min)
15:40 – 16:05	O22- Dean Webster North Dakota State University, Fargo, North Dakota, United States of America (USA) Exploration of amphiphilic additives in a siloxane-polyurethane fouling-release coating system. (25 min)
16:05 – 16:35	Still have some energy left? Virtual drinks & Networking carousel (parallel 30 min)

Thursday 01st July 2021

8:45– 9:15	Check in and Good morning! Grab a second coffee!
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Session IX

Chairs: Keimpe van den Berg & Catarina Esteves & Iuliana Ribca (RedTeam)

9:15 – 9:40	O23- Limin Wu Fudan University, Fudan, China (CN) Iridescence-controlled and flexibly tunable retroreflective structural color film for smart displays (25 min)
9:40 – 10:00	O24- Deniz Kizilkaya Trakya University, Edirne, Turkey (TR) Network formation and stimuli-responsive behavior of PU coatings with dual hydrophilic/hydrophobic dangling chains (20 min)
10:00 – 10:20	O25- Spardha Jhamb Technical University of Denmark, Lyngby, Denmark (DK) A hybrid experimental and model-Based methodology for the formulation of self-stratifying coatings (20 min)
10:20 – 10:35	Poster Session E – Pitch presentations (15 min) P13- Marie Betker Deutsches Elektronen Synchrotron, Hamburg, Germany (D) Spray deposition of thin CNF layers as sustainable carrier material and their functionalization for energy applications (5 min) P14- Hugo den Besten University fo Groningen (NL) Impact of changes in refractive index in spectral analysis of curing of vinyl ester resins by operando Raman spectroscopy (5 min)



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	<p>P15- Najmeh Filvan Torkaman Paderborn University, Paderborn, Germany (D) Interfacial design for catalytic recycling of carbon fiber reinforced thermoset polymers (5 min)</p>
10:35 – 10:50	<p>Poster Session E – Q&A– Individual parallel discussions (15 min) P13- Marie Betker – <i>Iuliana Ribca (RedTeam)</i> P14- Hugo den Besten – <i>Siyu Li (RedTeam)</i> P15- Najmeh Filvan Torkaman – <i>Luuk Moone (RedTeam)</i></p>
10:50 – 11:10	Coffee/Tea Break & Networking Carrousel (parallel 20 min)
<h3>Session X</h3> <p><i>Chairs: Wolfgang Bremser & Mats Johansson & Joeri Opdam (RedTeam)</i></p>	
11:10 – 11:30	<p>O26- Siyu Li Eindhoven University of Technology, Eindhoven, The Netherlands (NL) Self-assembly of silica/polyacrylate colloidosomes for water-borne coatings (20 min)</p>
11:30 – 11:50	<p>O27- Malin Schultz University of Surrey, Guildford, United Kingdom (UK) Mapping of the parameter window for stratification in bimodal mixtures of colloidal polymer particles (20 min)</p>
11:50 – 12:10	<p>O28- Minghui Tang Paderborn University, Paderborn, Germany (D) Interfacial Shear Strengths of Carbon Fiber Coatings Comprising PDMS – Modified Kaolinite (20 min)</p>
12:10 – 12:25	<p>Posters Session F– Pitch presentations (15 min) P16- Amado Velázquez Palenzuela Technical University of Denmark, DTU, Lyngby, Denmark (DK) Preparation of TiO₂-based hollow microspheres by spray drying and their use as novel active pigments for photocatalytic coatings. (5min)</p> <p>P17- Michelle Weinert Niederrhein University of Applied Sciences, Krefeld, Germany (D) Hydrophobic phytic Acid (PA) conversion layers for corrosion protection of steel surfaces (5 min)</p> <p>P18- Daryl Williams Surface Measurement Systems, London, United Kingdom (UK) Vapour Sorption Isotherm Measurements in Thin Coating Films (5 min)</p>
12:25 - 12:40	<p>Posters Session F– Q&A– Individual parallel discussions (15 min) P16- Amado Velázquez Palenzuela – <i>Joeri Opdam (RedTeam)</i> P17- Michelle Weinert – <i>Rosela Leggieri (RedTeam)</i> P18- Daryl Williams – <i>Luuk Moone (RedTeam)</i></p>



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12:40 - 13:30	Lunch break (50 min)

Session XI

Chairs: Rolf van Benthem & Mats Johansson & Siyu Li (RedTeam)

13:30 – 13:55	O29- Giuseppe Portale University of Groningen, Groningen, The Netherlands (NL) Depth resolved and real time investigation of waterborne coating nanostructure using surface X-ray scattering methods. (25 min)
13:55 – 14:15	O30- Ingo Alig Fraunhofer LBF, Darmstadt, Germany (D) Modeling of water uptake and mechanical stresses of polymeric layer structures during natural weathering and for accelerated weathering protocols. (20 min)
14:15 – 14:35	O31- Daniel Leidlmair CEST- Centre for Electrochemical Surface Technology, Austria (AU) Elemental and chemical depth profiling (20 min)
Poster Session G – Pitch Presentations (15 min)	
14:35 – 14:50	P19- Markus Enekvist Technical University of Denmark, Lyngby, Denmark (DK) A methodology for computer-aided product design and solvent selection for organic coatings (5 min)
	P20- Stephan Roth KTH & DESY, Stockholm, Sweden (SE) Correlating nanoscale structures in functional coatings to improve flexible bio-based functional materials (5 min)
	P21- Marco Heuer EVONIK Resource Efficiency GmbH, Hamburg, Germany (D) A novel wetting and dispersing agent for multiple usage in solventborne coatings (5 min)
14:50 – 15:05	Poster Session – Q&A (15 min) – Individual parallel discussions
	P19- Markus Enekvist – Iuliana Ribca (<i>RedTeam</i>)
	P20- Stephan Roth – Joeri Opdam (<i>RedTeam</i>) P21- Marco Heuer – Stefan Govers (<i>RedTeam</i>)

Awards & Closure

Chairs: Catarina Esteves & Mats Johansson & Stefan Govers (RedTeam)



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15:05 – 15:35	Announcement of Awards, Closing Ceremony and Goodbye! (30 min)
15:35-16:05	Too good to end? – Join the reflections and farewell. (30 min)