Euilding & Infrastructure

#compsites18

Berlin, Germany May 17 - 18, 2018

Key Practical Learning Points of the Summit:

- New potentials for composite technologies in buildings & infrastructure
- Architectural applications of composites in interior and exterior constructions Composites in future smart cities
- Composites in top-down construction and refurbishment
- Innovative ways of improving structural strength and
- resistance with composites
- Strengths and weaknesses of carbon fibre reinforcements
- FRP applications for lightweight roof structures
- Large scale self-supporting CFRP structures
- Advancing the manufacture of GFRC for today's building envelopes
- Composites in large scale projects. Integrating design and installation perspectives
- Optimised workflow for engineering composite bridge structures for the railway industry
- Composites for high speed railway infrastructure:
- Innovation in tunnel construction
- Bio-based composited moveable bridge
- State of the art composite materials for the construction industry
- Aliphatic polyurethane matrix materials for the next generation of lightweight applications

Key Speakers:



<u>ONLANTHE</u> CONFERENCES

BERLIN, Germany May 17 - 18, 2018



e are pleased to invite you to the '**Composites** in Building & Infrastructure Summit's cheduled for May 17th –18th, 2018 in Berlin, Germany.

This premium B2B event builds upon two crucial trends driving the composites industry nowadays: The growing importance of cultivating sustainability in urban spaces and the spreading concept of smart cities.

The application of composites is bringing a paradigm shift in the construction sector – their advantages over conventional materials as higher durability, strength, and low ecological footprint make them the material of choice in many state of the art building projects. Initially popularized within the automotive industry, these lightweight and 5G network-penetrable materials are now being rediscovered by architects and engineers from the building sector.

Deriving from these tendencies, this conference strives to foster innovation throughout the entire composites value chain and boost advancement in its usage for achieving structural robustness, safety, and renewability.

R&D, manufacturing, and application experts are joining us in Berlin to help us deliver this niche knowledge-sharing platform focused on designing and building our future urban areas with composites.

It would be our honour to meet you in Berlin this coming spring and hear your perspectives on the topic!

Who Should Attend:

Organisations operating in the **areas** of: building, civil engineering, infrastructure and contracting services.

Overview of corresponding stakeholders:

- Raw Material Producers
- Composite Manufacturers
- Composite Product Moulders
- Material Suppliers
- Composites End-Users
- Architects
- Designers
- Builders
- Structural Engineers
- Developers
- Asset or Building Owners
- Railway Companies
- R&D Directors/Managers
- QA & QC Directors/Managers

Purchasing Directors/Managers

- Contractors
- Utility Providers
- Telecoms Scholars
- Certification Labs
- Architecture /
- Civil Engineering Students
- Regulators
- Design Offices
- Local Authorities
- Software Producers
- Associations & Institutions
- Sustainability Advocates
- Market/Business Development



Arkema is a global chemical company and France's leading chemicals producer, and is building the future of the chemical industry every day. Deploying a responsible, innovation-based approach, we produce state-of-the-art specialty chemicals that provide customers with practical solutions to such challenges as climate change, access to drinking water, the future of energy, fossil fuel preservation, and the need for lighter materials. With operations in more than 50 countries, some 19,700 employees and 13 research centers, Arkema generates an annual revenue of \mathbf{c} 7.7 billion, and holds leadership positions in all its markets with a portfolio of internationally recognized brands.



Scott Bader was established in 1921 and today we are a Euro 227 million global chemical company, employing over 650 people worldwide. With manufacturing sites located around the world it manufactures, sells and distributes a wide range of synthetic resins and polymers to many different markets and has built a reputation for innovation, quality and excellent customer service. Scott Bader is the Composites expert and can help with all aspects of your composite part fabrication. Pioneering in glass fibre composites since the 1940s, the brand Crystic® has gained a world-wide reputation for quality, reliability and Glass Reinforced plastics products for industries ranging from Marine, Building, Transportation, Automotive, Wind Energy and Chemical Containment.



With approximately EUR 350 million in annual revenue, the family-owned company, SAERTEX®, is the global market leader in the manufacturing of multiaxial fabrics (non crimp fabrics) and core materials for the production of fiber-reinforced composites. Customers in wind, aerospace, automotive, sports, and boat building industries rely on SAERTEX® reinforcement materials made from glass, carbon, and aramid fibers to achieve lighter weights, enhanced stiffness, and corrosion resistance. Particularly in segments like shipbuilding, railways, oil & gas, and construction, the company offers additional services to support customers in the transformation of components from steel to composite, calculations and process development, to serial part production. With some 1,400 employees and twelve production sites on five continents, as well as an active distribution network in more than 50 countries, SAERTEX® Group is globally positioned to satisfy the rising demand for advanced-technology composite solutions.



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EOMPOSITES in Building & Infrastructure **BERLIN**, Germany May 17 - 18, 2018 ~ 7AY ONE 1 2 REGISTRATION AND WELCOME COFFEE OPENING ADDRESS FROM THE CHAIRMAN PREPARING FOR THE FUTURE OF URBANIZATION: MARKET OPPORTUNITIES FOR USING COMPOSITES IN BUILDING AND INFRASTRUCTURE CASE STUDY The key properties of composites which make them A global overview of the use of composites' applications attractive for building in architectural projects The key applications where composites are used in architectural projects **Andrew Mafeld** Illustrative examples of composite based architectural projects Oonnectra Founder & Managing Director around the globe Connectra Global KB, Sweden Technical details and key reasons why composites were used in these examples Conclusions to be drawn for the future of composites in architectural projects An innovative approach to maximize networking capabilities through two minute periods, where delegates can meet their peers and exchange business cards before rotating to the next company representative **SPEED NETWORKING:** CASE STUDY The outcome of the AZL - Market and Technology Study New Potentials for composite technologies in supported by 25 international partners buildings & infrastructure **Dr. Michael Effing** CEO / Senior Advisor AMAC GmbH / AZL Aachen GmbH CASE STUDY What is 5G network and what does it mean for Composites in future smart cities city infrastructure (incl. buildings)? Capturing value of composite solutions in city constructions and Mikko Lassila dense networks Group Sales Development Manager exel What are the opportunities for composites in **Exel Composites** smart cities' built infrastructure? MORNING COFFEE AND NETWORKING BREAK COMPOSITES IN TOP-DOWN CONSTRUCTION AND REFURBISHMENT CASE STUDY Basics of carbon fibre and carbon composite technology The value of carbon fibre reinforcement in Strengths and limitations of carbon fibre reinforcements and construction industry learnings from other industries Use of carbon fibre technology in construction industry Dr. Max Baron von Bistram Senior Manager, Future Growth Areas & SGL GROUP New Business Dev., Central Innovation SGL Group CASE STUDY Lightweight and freedom of form offered by moulded structural Large scale self-supporting CFRP structures panels has allowed realisation of ground breaking projects Now the full capabilities of lightweight construction using carbon fibre **Dr. Mark Hobbs** are being employed to enable truly inspirational architectural structures PREMIER Head of Structural Engineering This presentation will take you on a journey with Premier Composites Premier Composite Technologies from our early self-supporting dome structures through to the latest carbon fibre free standing roof structures, including the Steve Jobs Theatre roof, believed to be the largest freestanding carbon fibre roof ever installed (1) **BUSINESS LUNCH** Sponsorship-related questions to: register@vonlanthengroup.com \bowtie

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BERLIN, Germany May 11 - 18, 2018 - 024 ONE

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BERLIN, Germany May 17 - 18, 2018 - 1784 TWO

COMPOSITES in Building & Infrastructure Summit

08:30 09:00	REGISTRATION AND WELCOME COFFEE OPENING ADDRESS FROM THE CHAIRMAN	1 2
	COMPOSITES IN LARGE SCALE PROJECTS. INTEG	GRATING DESIGN AND INSTALLATION PERSPECTIVES
09:10	CASE STUDY Optimised workflow for engineering composite bridge structures for the railway industry Julien Sellier Managing Director STRUCTeam	 Workshop with a hands-on presentation of a preliminary footbridge design for railway industry Efficient design iterations to optimise engineering resources BOM generation supporting the business case analysis for large composite structures
09:50	CASE STUDY Composites for high speed railway infrastructure Anurag Bansal Global Business Development Acciona Construction SA	 The innovative composite panels developed by Acciona are an alternative to conventional steel and concrete panels for high speed railway tunnel construction Bridging the challenges to innovation: Using composites to achieve design flexibility and meet structural requirements Acciona's approach in developing a cost effective and agile composite manufacturing system that facilitated the production of one composite panel in 34 minutes on a continuous basis Hands on experience on the advantages of building with composites: Tweaking corrosion resistance, maintenance and installation practices
10:30	MORNING COFFEE AND NETWORKING BREAK	
11:10	CASE STUDY Bio-based composited moveable bridge Wouter Claassen Engineer Witteveen+Bos	 Our goal for 2018: Design and build the first movable bio-based bicycle bridge in the world, Ritsumasyl What is a bio-based composite bridge? Research programme bio-based movable bridge Ritsumasyl The design and lessons learned
11:50	BUSINESS LUNCH	
	STATE OF THE ART COMPOSITE MATERIALS FOR	THE CONSTRUCTION INDUSTRY
12:50	CASE STUDY Desmocomp® -aliphatic polyurethane matrix material for the next generation of lightweight applications Dr. Stamo Mentizi Marketing Manager - Business Opportunities Manager for Composite Covestro AG	 Covestro developed a brand new aliphatic Polyisocyanate named Desmocomp® for the use in lightweight composite materials Desmocomp® was first introduced into industrial applications in pultrusion. With its unique processing properties, Desmocomp® can be easily processed by this technology using both closed and an open bath impregnation of fibres. Our system for pultrusion is a direct drop-in solution for established pultrusion processes in use Besides that, this new matrix material based on aliphatic Polyurethanes combines excellent inherent weathering-, UV-and flame-resistance with superior mechanical properties. This unique combination of features enables the protection of the composite against environmental impacts, such as sunlight or salty water without additional protective coating or additives compared to other conventional matrix materials We believe that these exceptional properties make Desmocomp® highly suitable for a broad range of applications in the building and construction, as well as automotive industry
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COMPOSITES in Building & Infrastructure

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Dr. Thomas Henriksen, UK Director - Global Façade Practice Leader Mott MacDonald M MOTT MACDONALD

Dr. Thomas Henriksen joined Mott MacDonald in 2016 in his current role as a technical director and global leader of façade engineering. His previous roles include technical director at Waagner Biro (2011-2015) and Seele (2010-2011), project manager for façade package at IAV Construction (2007-2010), and senior structural façade engineer at Arup (2004-2007). He has a high level of experience in design across a wide range of buildings and infrastructure projects including; architectural competitions, direct liaison with clients, interpreting the clients' requirements, developing and presenting design proposals, contract negotiations, design development and detailing, coordinating interfaces between subcontractor packages and overseeing construction onsite, reviewing progress against contractors' programmes, and maintaining onsite quality.



Head of Structural Engineering Premier Composite Technologies

Mark Hobbs studied engineering at Cambridge University then moved on to a master's in Yacht and Small Craft Design at Southampton University. This was followed by a PhD on the aeroelastic analysis of yacht rigs. His interest in lightweight materials and marine structures initially lead to a position at Gurit where he worked on a wide range of projects in the marine, architectural, civil, and underwater power markets. During this time, he achieved one of his childhood dreams of working on an Americas Cup yacht during the 2007 Americas Cup in Valencia. Following this, he became increasingly involved in the use of advanced FRP in architectural structures, with responsibility for concept design and technical approval for several world leading FRP structures. In 2015, Mark joined Premier Composite Technologies as head of structural engineering. He currently leads a team of structural engineers working on large scale advanced FRP structures and enjoys continuing to find new challenges for these exciting materials.



Julien Sellier, UK Managing Director STRUCTeam



🖊 PREMIER

Julien Sellier is the co-founder and managing director of STRUCTeam Ltd, which provides commercial and technical solutions for its customers in composite materials, and CompoSIDE Ltd, a web based composite design and engineering software. He earned his master's degree in engineering from the Ecole Centrale de Nantes in 2001, specialising in hydrodynamics and majoring in composite structures. Julien has managed significant projects in marine, wind energy, oil and gas, automotive, civil, and industrial applications. His experiences range from design and project management, composite materials development, and part manufacturing, to load monitoring.



Anurag Bansal, ES Global Business Development Acciona Construction SA



Anurag Bansal has over 19 years of hands-on experience in product and process development for the manufacturing of composite elements for building & construction, chemical, electrical and automotive industries using Pultrusion, SMC/DMC, Filament and Chop Hoop winding, Compression Moulding, RTM & VARTM, and Chop-spray processes. Apart from deep involvement in manufacturing, he is also looking at raw material sourcing, technology transfer, key customer coordination, and global business development.



Dr. Max Baron von Bistram, DE Senior Manager, Future Growth Areas & New Business Dev., Central Innovation SGL Group

Dr. von Bistram studied chemistry at Philipps University in Marburg/Lahn (1999-2004) with a focus on macromolecular sciences and polymeric fibre materials. In 2007, he finalized his doctoral thesis "Structured functional nanofibers by electrospinning" in the work group of Prof. J. H. Wendorff at the institute of physical and macromolecular chemistry in Marburg/Lahn. He joined SGL Group in 2008, working on innovation projects within composite material development. From 2014 until 2017, he lead the R&D department for composite materials of the central development organization of the SGL Group as a senior manager, with a focus on new technologies and new markets for carbon and graphite based materials.



Dr. Michael Effing has a PhD in Mechanical Engineering from the University of Technology Aachen(RWTH), Germany, where he specialised in the field of Polymers/Composites. Adding to his academic background, Michael has over 25 years of experience as a strategic and innovative executive manager with a key focus on marketing & sales excellence. He has unmatched international experience in executive positions within global firms such as DuPont, Berkshire Hathaway, Owens Corning, Huntsman, and DSM. Michael is the founder and managing director of AMAC GmbH, the chairman of the board of the Federation of Reinforced Plastics AVK in Frankfurt, vice president and board member of the Polymer Plastics Trade Association GKV in Bad Homburg, and a member of the advisory board of the trade show, Composites Europe.



Dr. Stamo Mentizi, DE Marketing Manager - Business Opportunities Manager for Composite Covestro AG



Dr. Stamo Mentizi has been the marketing manager and business opportunities manager for composites at Covestro AG since April of 2017, where she oversees the development of s growth opportunities by understanding and interpreting industry developments and needs. Prior to her current role, she was the innovation manager for composites for Covestro AG in which her responsibilities included technology scouting focused on composites.



Luke McEwen, UK Principal Engineer for Civil and Architectural Engineering Gurit



Luke McEwen has over 20 years' experience in the design of FRP composite structures, including buildings, bridges, roofs, cladding panels, domes, masts, and architectural sculptures. Having started his engineering career designing America's Cup racing yachts and other highly-loaded marine structures, he moved on to wind and tidal turbine blades, buses, and cars, all in glass fibre or carbon fibre reinforced plastic. He now leads Gurit's civil and architectural composite engineering team and specialises in advising designers on how to achieve ambitious structures with light-weight materials. Luke is a chartered engineer with a master's degree in engineering from Cambridge University.



BERLIN, Germany May 11 - 18, 2018 - BIOS

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Wouter Claassen, NL Engineer

Witteveen+Bos

Wouter Claassen is a consultant with over thirteen years of professional experience in civil concrete, steel, and FRP structures. He specialises in the engineering of road bridges. In 2004, he obtained his degree at the Technical University of Delft. Wouter participates in the CEN/TC 250/WG 4 working group for Fibre Reinforced Polymer Structures and is a committee member of the TGB Steel Commission. He has worked on a variety of civil engineering projects such as the design of the first movable 60-ton FRP bridge in the world. Since 2009, he specifically specialises as a tender manager of major infrastructural projects.



Mikko Lassila, FI Group Sales Development Manager Exel Composites



Mikko Lassila, 35, is a group sales development manager and product business owner of the telecommunication segment at Exel Composites PLC. Mikko holds a Bachelor of Science degree in marketing and communication from Tampere Polytechnic University, Finland and is currently doing his MBA studies at Aalto University. Mikko is a member of the Future Business Committee at the Confederation of Finnish Industries (EK) and an industry advisor for different entities. Before joining Exel back in 2011, Mikko used to work within the technical textiles industry for five years. Mikko is an experienced project leader, material expert, and a visionary business development professional.



Virginia Bozsak, FR Technical Manager Composites Arkema

ARKEMA

Virginia Bozsak studied aeronautic and space engineering in Stuttgart. This was followed by a specialization in the field of braiding/ epoxy composites at the Institute for Aircraft Design, where she earned experience in areas ranging from composite materials development, part manufacturing, and project management. In 2014, she joined Arkema in France as a technical manager for composites, where she oversees the development of the newly designed fluid thermoplastic resin, Elium. Since then, she implemented various manufacturing processes in different industries, like marine, automotive, wind, and most recently building and infrastructures. Over the past 7 years, she focused on finding innovative solutions for various markets which allows her to be the link between diverse disciplines and look beyond standard solutions for the customers.



Operational Strategies in Process Manufacturing Summit May 24 - 25, 2018 | Vienna, Austria



Andrew Mafeld, SE Founder & Managing Director Connectra Global KB, Sweden



Andrew Mafeld has over thirty years of experience in the global composites industry covering the carbon, glass, and natural fibre sectors. He is the founder and managing director of the Connectra group of companies, a Swedish based international business development consultancy working mainly in composites materials.

Prior to founding Connectra in 1998, Andrew held vice president positions in both commercial and technical areas at glass fibre manufacturer Owens Corning, in both Europe and the USA. Andrew has a chemical engineering degree from Imperial College, London, an MBA from INSEAD, France and speaks multiple languages.

He has consulted on business development strategies in composites for clients worldwide, including large and small companies, government ministries, and regional development agencies. His book on "The Automation of Polymer Composites Manufacturing" was published in 2010 and his book titled "The Future of Construction; the Growth of Composites in Building" was published in 2017.



Neil Appleton, UK Market development: Construction Sector National Composites Centre



Neil is responsible for market development in the construction and infrastructure sectors at the NCC. With over 20 years' experience in the design and manufacture of composite structures Neil's experience includes: offshore engineering, oil and gas, marine, construction, water industry, and structural rehabilitation. His academic grounding is a HNC and BSc in civil engineering leading to experience in civil engineering/building design, management, and construction in the early part of his career. Subsequently he has focussed on FRP Composites and has wide experience with large both organisations and SMEs. Neil has also been involved in numerous collaborative innovation projects reviewed industry guides and standards and served three terms as an elected director of Composites UK.



<u>ONLANTHE</u> CONFERENCES Dr. Bryan Barragan, FR Global Technical Leader - Infrastructure Solutions Owens Corning



Dr. Bryan Barragan has over 20 years of experience in research, development, and innovation in advanced concrete technology and alternative concrete reinforcements. He has co-authored more than 100 technical publications and participated in several public-funded projects, targeting innovation and sustainability in construction. He contributes to ACI, fib, and RILEM committees, and has been part of numerous scientific committees for international conferences. He has held positions in R&D, product and application development, and program leader roles with a regional and global scope. In Owens Corning, he is dedicated to applications and new business development to extend the use of glass-based composites as concrete reinforcement.



REGISTRATION FORM



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