



Virtual LIVE
8-10 June 2021

Agenda Draft

International Summit

AIRCRAFT CABIN ADDITIVE MANUFACTURING

Hosted by:  **SAFRAN**

Previous Participants From:



Sponsor:





AIRCRAFT CABIN ADDITIVE MANUFACTURING

8–10 June 2021 | Virtual LIVE



Now and the future

Aircraft Cabin Additive Manufacturing delivers a unique interactive platform to listen to discussions on additive manufacturing case studies, material usage, machine vendors updates, industrialization challenges and certification and regulation challenges.

EARLY CONFIRMED SPEAKERS

JĀNIS JĀTNIĒKS

Founder & CEO
Baltic 3D



CAI HOUNAN

General Manager
Additive Flight Solutions



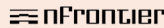
OLAF PLOOG

Head of Aircraft Programmes,
Technical
Etihad Airways



DR. STEPHAN BEYER

CCO and Co-Founder
nFRONTIER



D ANAND BHASKAR

MD & CEO
AIR WORKS



ERIK DE ZEEUW

Market Manager Aerospace



DR. GERT BRABANTS

Aerospace Operations Manager
Materialise

SHEVANTHA WEERASEKERA

Head of Engineering
SriLankan Airlines



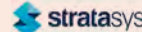
JIM MONROE

Director – Additive
Manufacturing
American Additive Manufacturing



SCOTT SEVCIK

VP Aerospace
Stratasys



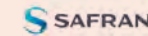
GUILLAUME BOISOT

Global Head of Business
Development
e-Xstream engineering



THIERRY THOMAS

Engineering EVP, Safran Seats



RAUL FLORES

VP Advanced Concepts, Safran Seats

FRANÇOIS-XAVIER FOUBERT

CEO
Safran Additive Manufacturing Campus

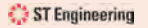
GREGOR REISCHLE

Head of Additive Manufacturing
Global industrial AM Team
TÜV SÜD Product Service GmbH



DR ZHENG GUOYING

Director Additive Manufacturing
Development Centre
ST Engineering



BEN TRENCARD

Founder & CEO
Reka BlueSky

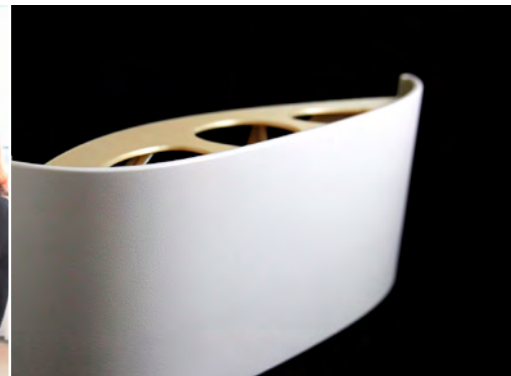


DR. MARTIN WHITE

Head of Additive Manufacturing
Programs – Europe
ASTM INTERNATIONAL



And more speakers to confirm from Recaro, Stelia, Airbus, Lufthansa Technik, AirFrance, Boeing and more...





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Now and the future

SPONSORS



Materialise incorporates three decades of 3D printing experience into a range of software solutions and 3D printing services, which together form the backbone of the 3D printing industry.

Materialise's open and flexible solutions have enabled players in a wide variety of industries, including healthcare, automotive, aerospace, art and design, and consumer goods, to build innovative 3D printing applications that aim to make the world a better and healthier place. Headquartered in Belgium, with branches worldwide, Materialise combines the largest group of software developers in the industry with one of the most complete 3D printing facilities in the world.



EOS provides responsible manufacturing solutions via industrial 3D printing technology to manufacturers around the world. Connecting high quality production efficiency with its pioneering innovation and sustainable practices, the independent company formed in 1989 will shape the future of manufacturing.

Powered by its platform-driven digital value network of machines and a holistic portfolio of services, materials and processes, EOS is deeply committed to fulfilling its customers' needs and acting responsibly for our planet.



For sponsorship such as exhibition, logo display, evening event sponsoring and speaking, please contact:

Andreas Wibowo, Andreas.Wibowo@redcabin.de | direct line: +49 30 99 40 489 11



AIRCRAFT CABIN ADDITIVE MANUFACTURING

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Now and the future

THIS IS WHAT EXPERTS OF OUR PAST EVENTS EXPERIENCED

"Good combination of participants with very open and fruitful discussions."

Senior Development Manager Additive Manufacturing CoC Aircraft
Manufacturing & MRO, ZAL

"Good topics, inputs, insights and a excellent group of people."

Business Manager Materials, Bigrep GmbH

"Conducive setting that allows a group of like-minded people to openly share ideas and engage one another."

General Manager, Additive Flight Solutions

"It delivered as expected. Nice networking, good and interesting topics."

Sales Manager Central Europe, Diehl Aviation

"Very valuable and focussed summit with the important player in the industry."

Sales Director Manufacturing, Materialise

"At Red Cabin we always meet fantastic new people, are exposed to a broad spectrum of experiences, projects and ideas, and have the chance to collaborate with each other in an open and inspiring way... and that is what our industry thrives on."

Catherine Barber, CMF, Acumen Design Associates

"RedCabin's summits, panel discussions, and workshops stimulate new partnerships through collaboration and innovation while expanding industry education. Their model is positioned perfectly to keep the industry working together through these challenging times by pivoting to virtual collaboration, which resulted in an Aviation Hygiene Working Group. Sekisui Kydex is a proud partner of RedCabin and we are enthusiastically expanding our partnership into the Mass Transit Industry."

Ronn Cort, President & COO of SEKISUI KYDEX

"The Red Cabin Innovation Summit uniquely provides an open, candid and collaborative forum where industry experts share their experience and ideas in a trusted and congenial environment for the benefit of the entire Cabin Interiors industry."

Nigel Duncan, President, DUNCAN AERO LTD



AIRCRAFT CABIN ADDITIVE MANUFACTURING

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Now and the future

CONFERENCE DAY 1 | TUESDAY 8 JUNE 2021

TIME ZONE: CET

09:00am Welcome speeches by RedCabin & the chairman

Dr. Martin White – Head of Additive Manufacturing Programs – Europe, *ASTM INTERNATIONAL*

09:10am Safran's Additive Manufacturing Ambitions

Opportunities and challenges in the field of cabin interiors. Presentation of the Safran Additive Manufacturing Campus.

- Use of AM in turnkey solutions during pandemic – Summary of customer demands and voids which AM can fill
- Versatility of AM materials for aerospace applications (tooling) – Material evolution that widens the spectrum of AM possibilities
- Evolving for the way forward to increase AM adoption – Integration of design and engineering elements as a packaged solution

François-Xavier Foubert – CEO, *Safran Additive Manufacturing Campus*

Thierry Thomas – Engineering EVP, *Safran Seats*

09:40am Topic highlight from AM Craft

AM Craft has purchased 4 Stratasys F900 systems to build first of its kind automated FDM technology manufacturing line.

The new facility will open in Q2, 2021 and will work to provide manufacturing on demand and serial manufacturing services to the aerospace industry. The facility will collect additional manufacturing and process data to increase the traceability of the manufacturing process.

Additionally, AM Craft is involved in carrying out R&D activities with the goal to offer reliable and certifiable data on AM material performance in as required by EASA/FAA. AM Craft is able to provide FORM 1 certification for all parts it manufactures and is looking to acquire its own POA status in 2021.

Jānis Jātnieks – Founder & CEO, *Baltic 3D*

10:10am Sourcing Low-Criticality Parts: the Additive Manufacturing Opportunity

The industry conversation around additive manufacturing (AM) still frequently focuses on printing safety-critical metallic parts. But it is also in low-criticality, plastic parts that AM presents a golden opportunity. Here, AM has a clear commercial benefit to offer: adding much-needed flex to aerospace supply chains by enabling quick on-demand production of short series, eliminating overstock and warehousing costs.

In this talk, Erik De Zeeuw, aerospace manufacturing lead at Materialise, discusses how aerospace companies can find these ideal applications for AM and make the most of the AM opportunity for supply chain management.

Erik de Zeeuw – Market Manager Aerospace, *Materialise*



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Now and the future

CONFERENCE DAY 1 | TUESDAY 8 JUNE 2021

TIME ZONE: CET

10:40am NETWORKING COFFEE BREAK

11:10am Medium size airline perspective of insourcing AM

Shevantha Weerasekera – Head of Engineering,
SriLankan Airlines

**11:40am Responsible Manufacturing: The Impact of Industrial
3D Printing of Polymers for the Aerospace Industry**

Thomas Weitlaner – Director Key Account Management
& Additive Minds, *EOS*

12:10pm 3D printing case study from MRO

As the biggest independent MRO in India, Air Works has collaborated with the Indian Air Force and the Indian Navy in maintaining their various platforms. Our presentation will reflect the current scope of 3D printing under deployment by the Indian defense forces for Interiors, against the opportunities available across sectors, including Defense, Business and Commercial aviation. The presentation will highlight the following:

- Air Works projects in MRO and Defense
- How Air Works is looking to implement 3D printing for interiors/Cabin for Commercial, Defence and Business jets
- Roadmap, Challenges and initial successes

D Anand Bhaskar – MD & CEO, *AIR WORKS*

12:40pm NETWORKING LUNCH

INTERACTIVE SESSIONS: WORKING GROUPS

Discuss the latest challenges and developments in AM with moderators and peers in these highly interactive sessions. You are welcome to share your ideas and experiences in the working groups. The audience will be divided into 3 groups. Each group will attend all 3 interactive working groups.

WORKING GROUP – 1

01:40pm Additive Manufacturing – Benefits and Challenges from an Airline viewpoint

Etihad Airways uses Additive Manufacturing technology for the production of cabin spare parts. The decision what parts are suitable for 3D printing needs to consider various aspects. These go beyond cost reduction, lead-time and appearance.

In this workshop we want to share operator experiences and discuss how to overcome some of the challenges in introducing 3D printed parts in aircraft cabins.

Olaf Ploog – Head of Aircraft Programmes, Technical,
Etihad Airways



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Now and the future

CONFERENCE DAY 1 | TUESDAY 8 JUNE 2021

TIME ZONE: CET

WORKING GROUP – 2

02:40pm Simulation for AM in the airplane cabin

Shortening the development cycle

- Design optimization techniques: Generative design, simulation-driven design, algorithmic design
- First time right printing
- Accessing 3D printed part's reliability

Accelerating the adoption of 3D printed parts

- Simulation and certification standards
- Material traceability from manufacture through analyses

Approaching sustainability

- Design for recyclability
- Qualify recycled & bio-based material
- Innovative applications

Dr. Guillaume Boisot – Global Head of Business Development, *e-Xstream engineering*

03:40pm NETWORKING COFFEE BREAK

WORKING GROUP – 3

04:10pm Setting up a Manufacturing plan within Additive Manufacturing

- Ensuring the resulting process is robust enough to deliver a consistently safe product

- Control, demonstrated understanding of the critical parameters
- Risk mapping based on product criticality
- Overview of helpful state of the art AM standards, trainings, advisory services

Gregor Reischle – Head of Additive Manufacturing Global Industrial AM Team, *TÜV SÜD Product Service GmbH*

05:10pm RESULTS

Each moderator of the Interactive working group is presenting the outcomes of their session

05:40pm CLOSING REMARKS BY THE SUMMIT CHAIRMAN

05:45pm END OF SUMMIT DAY 1



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Now and the future

CONFERENCE DAY 2 | WEDNESDAY 9 JUNE 2021

TIME ZONE: CET

INTERACTIVE SESSIONS: PANEL DISCUSSION

09:00am Panel Discussion on after market

- Opportunities of AM for Aftermarket applications
- Key success factors/enablers
- Risks and hurdles
- Perspectives from the various stakeholders

Lionel Ridosz – Additive Manufacturing Director,
Safran Seats

Frédéric VERLON – Key Account Manager – Aerospace,
EOS GmbH

Sebastien Sancho – Support & Services – Director of
Engineering, Product Support & Innovation, *Safran Seats*

Shevantha Weerasekera – Head of Engineering,
SriLankan Airlines

09:45am Use of AM in turnkey solutions during pandemic – Summary of customer demands and voids which AM can fill Versatility of AM materials for aerospace applications (tooling)

- Material evolution that widens the spectrum of AM possibilities
- Evolving for the way forward to increase AM adoption
- Integration of design and engineering elements as a packaged solution

Cai Hounan – General Manager, *Additive Flight Solutions*

10:15am Adding Values to Our Customer's Cabin

While additive manufacturing (AM) is not new, its application in various industries is still limited, despite its acknowledged merits such as distributed supply chain, print on demand and sustainability. ST Engineering will share how the Group collaborates with technology partners and like-minded customers to design; produce and certify products to add value to our customers especially to their cabin interiors.

Dr. Zheng Guoying – Director Additive Manufacturing
Development Centre, *ST Engineering*

10:45am NETWORKING COFFEE BREAK

11:15am Challenges in the production of aerospace, especially interior parts and emerging markets ripe for Additive Manufacturing

Jim Monroe – Director, Additive Manufacturing,
American Additive Manufacturing, LLC.

11:45am Panel Discussion on certification

MODERATOR: **Gregor Reischle** – Head of Additive
Manufacturing, *Global industrial AM Team from TÜV SÜD*

PANELISTS: **Gert Brabants** – Operations Manager, *Materialise*

Scott Sevcik – VP Aerospace, *Stratasys*

Ben Trenchard – Founder & CEO, *Reka BlueSky*



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Now and the future

CONFERENCE DAY 2 | WEDNESDAY 9 JUNE 2021

TIME ZONE: CET

12:30pm Co-creation enabled agility. Tools and methods used to boost agility and shorten development cycle times. Use of Additive Manufacturing in this context.

Raul Flores – VP Advanced Design Concepts, *Safran Seats*

01:00pm NETWORKING LUNCH BREAK

INTERACTIVE SESSIONS: WORKING GROUPS

Discuss the latest challenges and developments in AM with moderators and peers in these highly interactive sessions. You are welcome to share your ideas and experiences in the working groups. The audience will be divided into 3 groups. Each group will attend all 3 interactive working groups.

WORKING GROUP – 1

02:00pm The impact of the the cabin on sustainability

Meeting sustainability goals is a key driver for the future of aviation. Obviously, the cabin needs to contribute to those goals. The question is how and which technologies are needed to build cabin that has a net positive climate impact.

We will be working on ideas and identifying technologies to build a positive impact cabin. But also discussing challenges, i.e. limitations, certifications and how to overcome them in the future.

Dr. Stephan Beyer – CCO and Co-Founder, *nFRONTIER*

WORKING GROUP – 2

03:00pm Standards and Material Properties to Support AM for Aircraft Cabin Parts

- Standards Landscape to Support Aircraft Cabin Parts – what is available, and where are the priorities to close gaps?
- Material Properties – How can we ensure that there are appropriate Material Allowables to support designers & end users?

Dr. Martin White – Head of Additive Manufacturing Programs – Europe, *ASTM INTERNATIONAL*

04:00pm RESULTS

Each moderator of the Interactive working group is presenting the outcomes of their session

04:20pm CLOSING REMARKS BY THE SUMMIT CHAIRMAN & REDCABIN

04:30pm END OF SUMMIT DAY 2



AIRCRAFT CABIN ADDITIVE MANUFACTURING

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Now and the future

CONFERENCE DAY 3 | THURSDAY 10 JUNE 2021

TIME ZONE: CET

Your are welcome to join our workshop day of the Aircraft Cabin Innovation Summit.

WORKSHOP – 1

09:00am Transforming spaces to improve comfort

This session explores the folding theory involved in altering a passenger's environment to improve their comfort. Aircraft have fixed components within their interior, making it very difficult for the customers to alter the interior configuration once the final aircraft is built. Rigid environments restrict the potential activities that a user can pursue within that space, thereby limiting the possibility of the user improving their experience. Multi-functional monuments will enable users to increase the functionality of any given space by personalizing it to their requirements and in turn improving their perceived comfort. Based on the furniture folding methodology developed at Ryerson University, folding applications called Open-on-Demand and Reconfiguration were designed to transform existing cabins to multi-functional spaces that would in turn improve the passenger on-board experience.

Aditya Venkatesh – Graduate Research Assistant, *Ryerson University*

11:00am NETWORKING COFFEE BREAK

WORKSHOP – 2

11:30am Should the aviation interior industry adapt to make recyclable products?

Of course the answer may be 'no', but given the scientific evidence for climate change and an increasing move in both public opinion and political policy making to address the issue, it is not unreasonable to foresee the introduction of legislation requiring that aircraft interior products be recyclable? Strategically it would make sense to evaluate our businesses on this basis to identify the threats and opportunities that would arise from this scenario. What we hope to draw out through a collaborative workshop is

- An appreciation of the current barriers to recycling
- Some guidelines for design and manufacturing to start us on a path towards meeting the challenge
- A new viewpoint from which to evaluate our current business practices and priorities
- To stimulate some innovative thinking about our products and their lifecycles

Catherine Barber – CMF, *Acumen Design Associates*

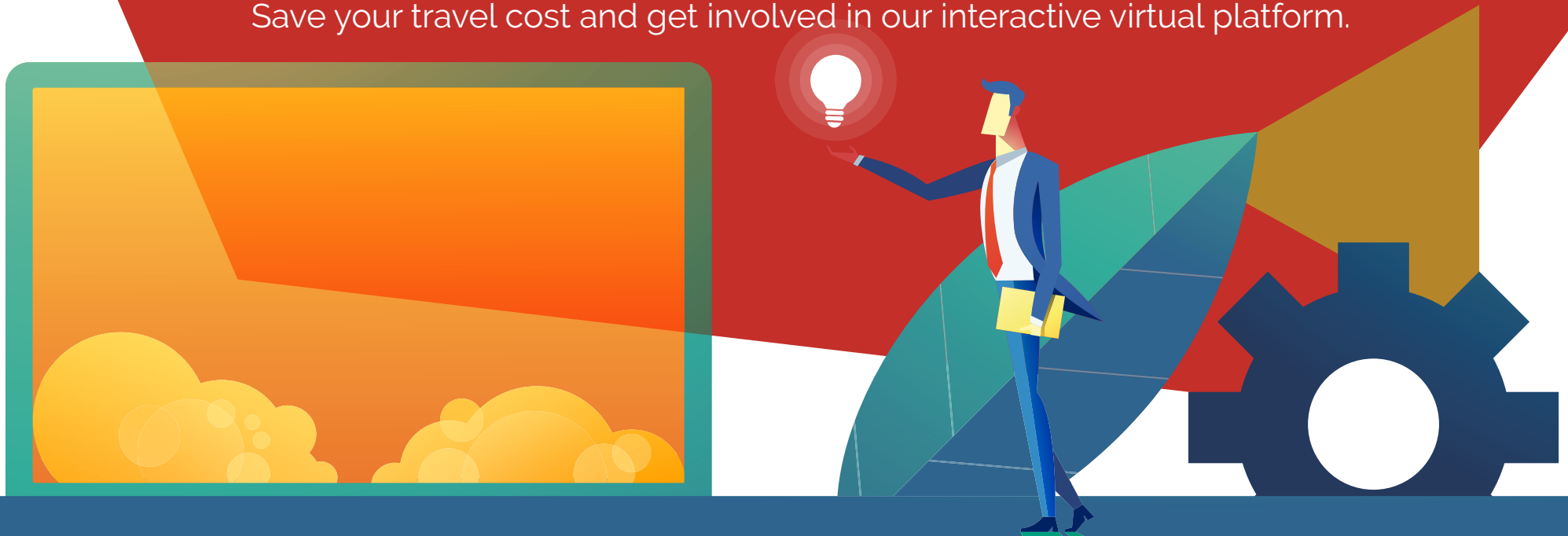
12:30pm END OF SUMMIT DAY 3

WELCOME to our Virtual LIVE

There has never been a more important time for the global aircraft interior industry to come together and learn how to survive and thrive in a post Covid-19 world.

RedCabin has invented a unique platform where we are able to connect and network, collaborate, exchange ideas and learn from each other, and even celebrate despite not being able to be physically present together.

As demand of additive manufacturing increases in aircraft interior and MRO, RedCabin virtual aircraft cabin additive summit will help suppliers to connect with airlines, MRO, plane manufacturers, cabin manufacturers, machine and material suppliers. Save your travel cost and get involved in our interactive virtual platform.



Some of our highlighted benefits include:



Present your business services, expertise and products in our collaborative and open environment. This includes our renowned **working group activities**.



Virtual booths to show your products, just like our live summits.



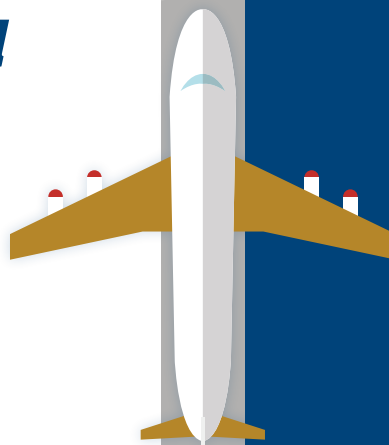
One-to-one meetings with high level executives from airlines, manufacturers, tier one suppliers, design houses and more.



Be part of our **panel discussions** and be associated with our leading **experts from notable organizations**.



Use our match making tools to ensure you meet your suitable **target audience**.



What we provide:

- Live stream speeches
- Our interactive working groups
- Networking activities including one-to-one video meetings
- Interactive panel discussions
- Group chats
- Surveys and live polls
- Delegate lists
- New connections with our valuable members!



INVESTMENT PER DELEGATE

DATE	INVESTMENT
2 DAY SUMMIT TOTAL INVESTMENT	1.000 € + VAT

For further information or registration please contact:

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