

EASA WORKSHOP

Additive Manufacturing, September the 28th – 29th 2016, Cologne

Agenda

DAY 1, 28/09/2016

| TIME | TITLE, SPEAKER |
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| 08:30 H – 09:00 H | CHECK-IN AND WELCOME COFFEE |
| I. REGULATOR INTRODUCTION BLOCK | |
| 09:00 H – 09:10 H (10 min.) | Introductory Words Trevor WOODS, EASA Certification Director |
| 09:10 H – 09:20 H (10 min.) | General Remarks on Purpose of Workshop Richard MINTER, EASA Chief Expert Airframe |
| 09:20 H – 09:40 H (20 min. + 5) | Basic strategy/risk mitigation/SAE Simon WAITE, EASA Senior Expert materials |
| 09:45 H – 10:05 H (20 min. + 5) | Additive Manufacturing, needed Standards, Quo vadis Wolfgang HOFFMANN, EASA Structures Expert |
| 10:10 H – 10:40 H (30 min. + 5) | AM in the context of structural integrity Michael GORELIK, FAA Chief Scientist and Technical Advisor F&DT |
| 10:45 H – 11:00 H (15 min.) | COFFEE BREAK |
| II. EASA DISCIPLINES BLOCK | |
| 11:05 H – 11:25 H (20 min. + 5) | DOA (including DOA/POA interface) Alexandru ENACHE, EASA DOA Section Manager |
| 11:30 H – 11:40 H (10 min. + 5) | MRO specific aspects Rosa TAJES, EASA Continuing Airworthiness Organisation Team Leader |
| 11:45 H – 13:00 H (1h 15 min.) | LUNCH BREAK |
| 13:00 H – 13:10 H (10 min.) | RESTART COFFEE BREAK |
| 13:10 H – 13:55 H (45 min. + 5) | AM Status at FAA Robert GRANT, FAA Aviation Safety Engineer |
| 14:00 H – 14:15 H (15 min. + 5) | EASA Research Werner KLEINE-BEEK, EASA Research Project Officer |
| 14:20 H – 14:50 H (30 min. + 5) | Clean Sky AM research activities Giuseppe PAGNANO, EU Clean Sky JU Head of Unit (Coord. PO) |
| 14:55 H – 15:25 H (30 min. + 5) | Casting Factors (CS 25.621) an approach to AM Ted BLACKLAY, CAA-UK Airworthiness Surveyor – Subject Matter Expert for Materials, Special Processes and NDT |

| TIME | TITLE, SPEAKER |
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| 15:30 H – 15:50 H (20 min + 5) | Quality Assurance in Additive Manufacturing: Some notes from our AM-logbook Marc DE SMIT, Senior R&D Engineer, NLR - Netherlands Aerospace Centre |
| 15:55 H – 16:10 H (15 min.) | COFFEE BREAK |
| III. STANDARDIZATION BODIES BLOCK | |
| 16:10 H – 16:30 H (20 min. + 5) | Global Material & Process Specs to Support Certification of AM Parts for Aviation John CLATWORTHY, SAE Aerospace Standards Engineer Team Lead |
| 16:35 H – 16:55 H (20 min. + 5) | Standards Development for Additive Manufacturing – ASTM/ISO/CEN Collaboration Pat PICARIELLO, ASTM Director Developmental Operations |
| 17:00 H – 17:20 H (20 min. + 5) | Nadcap AM Activities Ian SIMPSON, Associate Program Manager at PRI |
| 17:25 H – 17:45 H (20 min + 5) | Clean Sky AM research activities, next steps Vittorio SELMIN, EU Clean Sky JU Project Officer |
| 18:00 H | CLOSING OF 1ST DAY |

DAY 2, 29/09/2016

| TIME | TITLE, SPEAKER |
|---|---|
| 08:45 H – 09:00 H (15 min.) | STARTER COFFEE |
| IV. APPLICANTS DISCIPLINES BLOCK | |
| 09:00 H – 09:30 H (30 min. + 5) | Introduction of AM for Airbus products John VAN-DOEELAAR, AIRBUS Head of Structure & Hydromechanical & Alain SANTGERMA, AIRBUS Structures Engineering A/C Policies & Directives |
| 09:35 H – 10:05 H (30 min. + 5) | Rapid Spares using additive manufacturing John VAN-DOEELAAR, AIRBUS Head of Structure & Hydromechanical |
| 10:10 H – 10:30 (20 min +5) | Process control for selective laser melting David WILCKENS, SLM Solutions Director Business Development Aerospace |
| 10:35 H – 11:10 H (35 min. + 5) | Additive Manufacturing: Intelligent User – Intelligent Customer Neil MANTLE, Rolls-Royce Global Head of Additive Layer Manufacturing |
| 11:15 H – 12:10 H (55 min. + 10) | High volume production with Additive Manufacturing Jeffrey CONNER, CFM/GE Aviation Chief Consulting Engineer – Fielded Product Integrity |
| | Establishing the building blocks Jeffrey CONNER, CFM/GE Aviation Chief Consulting Engineer – Fielded Product Integrity |
| | Moving forward from development to serial production Anne THÉNAISIE, CFM/SAFRAN Safran Aircraft Engines Head of the AM Department |



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| 12:20 H – 13:35 H (1h 15 min.) | LUNCH BREAK |
| TIME | TITLE, SPEAKER |
| 13:40 H – 14:00 H (20 min. + 5) | Premium Aerotec's way to serial production and design Marc SCHIMMLER, Head of Research and Technology & Gerd WEBER, Head of Varel Plant Premium AEROTEC |
| 14:05 H – 14:25 H (20 min. + 5) | Additive Manufactured Parts for Flight Critical Applications George SMALL, MOOG Principal Engineer |
| 14:30 H – 14:50 H (20 min. + 5) | European R&I activities in Additive Manufacturing in FP7 and H2020 Andrea GENTILI, European Commission, DG Research and Innovation, Directorate Transport, Deputy Head of the Unit "Aviation" |
| 14:55 H – 15:10 H (15 min. + 5) | Bulk Additive Manufacturing Udisien WOY, AM Technology Lead, University of Sheffield, Nuclear AMRC |
| 15:15 H – 15:25 H (10 min) | Miscellaneous FAA Updates Michael GORELIK, FAA Chief Scientist and Technical Advisor F&DT |
| 15:25 H – 15:40 H (15 min.) | COFFEE BREAK |
| 15:40 – 15:50 (10 min) | SUMMARY EASA |
| V. OPEN DISCUSSION BLOCK | |
| 15:50 H – 16:50 H (1h) | INDUSTRIES / REGULATORS PANEL (all participants) |
| 17:00 H | CLOSING |