International Standards Organization Joint Working Group for Digital Manufacturing

Inaugural Meeting

October 19th – 22nd, 2015 Pier 5 Hotel, Baltimore, USA

DAY 1 MONDAY OCTOBER 19TH - DISCUSSIONS ON INDUSTRY REQUIREMENTS

FOR REGISTRATION HTTP://www.eccma.org/2015Tc184sc4/

08:00AM ISO TC184/SC4 Plenary Meeting

10:00AM Break

10:30AM Requirements from ISO Standards

1. STEP-NC AP238

2. STEP-NC ISO 14649

3. Cutting Tools ISO 13399

4. STEP AP242 Editions 1 & 2

12:00PM Lunch

01:00PM Requirements from Industry Solutions

1. ISO 261 Additive Manufacturing AMF

2. Machine Tool Monitoring MTConnect

3. CMM Measurement QIF

4. Quality Assurance PPAP

5. Korea Projects

6. Japan Projects

03:00PM Break

03:30PM Requirements for Digital Manufacturing

1. Milling and Turning

2. Cutting Tools and Fixtures

3. Machine Tools

4. Additive Manufacturing

05:00PM Close

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Day 2 Tuesday October 20TH - Discussions on Technical Solutions

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08:00AM Summary of Day 1 Requirements and Goals

1. Product requirements

2. Process requirements

3. Resource requirements

4. Measurement requirements

5. Monitoring requirements

6. Quality Assurance requirements

10:00AM Break

10:30AM **UUIDs and Part 21 Edition 3**

1. Anchors and References

2. EXPRESS constants

3. ZIP files and Digital Signatures

4. Linking to other standards

12:00PM Lunch

01:00PM AP242 and Modules

1. AP242 Edition 1

2. AP242 Edition 2

3. Advantages and disadvantages of Modules

03:00PM Break

03:30PM Round Hole Test Case

1. Feature definition

2. Operation definition

3. Cutter definition

4. Solution definition

05:00PM Close

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Day 3 Wednesday October 21ST – Industry Day Presentations

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Technology demonstrations will be given during the breaks

08:00AM	TC 184/SC4 Plenary Meetings
09:00AM	Industry Testing of Digital Manufacturing 1. USA Projects (AP238 and STEP-Manufacturing) ❖ David Odendahl, Boeing Airplane 2. EU Projects (ISO 14649) ❖ Aydin Nassehi, University of Bath
10:00AM	Break – Technology demonstrations
10:30AM	Industry Requirements for Digital Manufacturing 3. Additive Manufacturing Requirements (TC 261)
12:00PM	Lunch
01:00PM	Digital Manufacturing Applications 1. Eliminating the post processor
03:00PM	Break – Technology demonstrations
03:30PM	 Getting Started Projects Process Optimization and STEP-NC Simulation ❖ David Loffredo, STEP Tools MTConnect and 3D Machine Tool Monitoring ❖ Sid Venkatesh, Boeing Airplane ❖ Will Salesh Strategy Institute

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Will Sobel, System Insights

3. AP242 Translation to enable QIF Measurement

❖ Asa Trainer, ITI

4. CNC Programming using the STEP-NC DLL

❖ Martin Hardwick, STEP Tools, Inc.

05:00PM Close

Technology demonstrations close 06:00PM

In break room

TBD Social Event

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DAY 4 THURSDAY OCTOBER 22ND - CLOSE OUT

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08:00AM Unfinished Business

10:00AM Break

10:30AM Review of Action Items

1. Action items

2. Logistics for next meeting

3. Any other business

4. Close of JWG

12:00PM Lunch

01:00PM Part 21 Edition 3 Issues

03:00PM Break

03:30PM ISO TC184/SC4 Meetings

05:00PM Close

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