

38th MMPDS Coordination Meeting



We cordially invite you to the MMPDS Coordination meeting that will take place at the Embassy Suites by Hilton Denver Tech Center North in Denver, Colorado beginning Monday, August 30, 2021 at 8:00 am through Thursday, September 2, 2021 at 5:00 pm. A complete schedule has been included in this email. Because of the additional sessions that did not exist before, the meeting will now be four (4) full days.

This meeting brings together the top firms in the world for discussions on the direction and growth of the MMPDS Handbook. The Meeting will include individual meetings for Task Groups, Working Groups, and Steering Groups brought together to further the objectives of the Handbook. But that is not all. You are given the opportunity of working alongside aerospace corporations, large and small, to further the material designated for the MMPDS Handbook. By taking a prominent part, you are participating firsthand ensuring that your objectives and goals are critically laid out for all to consider.

AIRPORTS (Distance to Hotel):

Denver Intl (18.25 miles northeast)
Fort Collins Mncpl (55 miles north)
Colorado Springs (60.25 miles south)

HOTEL:

The Meeting Rate for the hotel is per diem \$159. Parking is free for hotel guests and for non-hotel guests. The rate will be available until August 2, 2021, after which the normal hotel rate will apply.

Booking Link:

[Reservation link for Embassy Suites Tech Center North](#)

NOTE: The meeting rate will apply for up to 2 days before or 2 days after the meeting, upon availability. Be sure to confirm your arrival and departure dates when making your reservation.

REGISTRATION and PAYMENT

The rates for meeting attendance are as follows.

ISG or GSG Member, early discount	1 date only \$ 300 USD	Two or more dates \$ 550 USD	If registered before 8/2/2021
Non- ISG or GSG Member, early discount	\$ 350 USD	\$ 600 USD	If registered before 8/2/2021
Rate if registered after 3/2/2020	\$ 425 USD	\$ 725 USD	Registration after 8/2/2021

NOTE: If a company is a subsidiary of a member company, they are entitled to the member discount.

For your convenience, the Meeting Registration is now done online. Discount rates will expire August 2, 2021. Please use the following link to access the link. Additionally, payment to a secure processor is included.

<https://www.mmpds.org/upcoming-meetings/>

FURTHER INFORMATION

For further information on the meeting hotel and/or registration, please contact scalf@battelle.org. For technical questions, please contact halld@battelle.org, or rubaduej@battelle.org in his absence.



38th MMPDS Coordination Meeting

Preliminary Schedule

August 30 - September 2, 2021 - Location: Denver, CO

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7:30-8:00	Continental Breakfast	Continental Breakfast	Continental Breakfast	Continental Breakfast	
8:00-10:00	V2WG/ETTG	ISG/GSG (members only)	GTG ETTG & FTG Guidelines will be first	MTG	
10:00-10:15	Break	Break	Break	Break	Break
10:15-12:00	V2WG/ETTG	MIDAS Demos	FTG	GTG	MTG
12:00-1:00	Lunch (buffet included in fee)	Lunch (buffet included in fee)	Lunch (buffet included in fee)	Lunch (buffet included in fee)	
1:00-2:45	V2WG/ETTG	MATSSG	FTG	GTG	MTG
2:45-3:00	Break	Break	Break	Break	
3:00-5:00	ISG (members only)	GSG (Invitation only)	ASG	FTG	PSG
					FatWG
					GCC (Include Report from Executive Board, Steering Groups, and Review of Items)

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SORTED BY ITEM NUMBER

Item No	Responsible Group		Chpt	Title	Type	38th Meeting Description
	Final	Initial				
04-21	FTG		8	Fastener Tables of Sunset Review Interest	On Hold	This item is on hold, pending items 12-50, 12-105, and 17-28.
08-23	FTG		8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold	This item is on hold, pending items 12-50, 12-105, and 17-28.
09-13	FTG		8	Sunset Review of Table 8.1.3.2.3(a), MS21140	On Hold	This item is on hold, pending items 12-50, 12-105, and 17-28.
11-05	MTG		1	AMS Coordination	Agenda	The AMS Metals Committees is meeting September 18-23 (after MMPDS meeting). Location to be announced. J.
11-38	FTG		8	Sunset Review of Flush Head, Mechanical Lock Spindle Blind Rivet Table 8.1.3.2.2(e) NAS 1921 M	On Hold	This item is on hold, pending items 12-50, 12-105, and 17-28.
11-43	FTG		8	Supporting Data and Basis Identification for Table 8.1.2(b)	Agenda	C. Reakes will present this item if data are received for analysis. If no data are available, Battelle will propose close with no action.
12-105	GTG-F	FTG	9	Modification to the Sunset Criteria Procedures	On Hold	This item will not be covered. Pending resolution of 12-50 and 17-28.
12-17	MTG	ASG & MATSS G	6	Footnote for Non-Ferrous Alloys Test Specimen When Not From Full Thickness	Status	Please let Jana Rubadue know if you are aware of any non-ferrous alloys for which this may apply.
12-50	GTG-F	FTG	9	Evaluation of new Regression and Confidence Models for Lap Joint Tests	Status	W. White will present this item.
12-89	MTG	PSG		Target Materials for Propulsion Applications	Status	This item will not be covered
13-34	MTG		5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Status	C. Shannon will provide a status update.
13-50	GTG		9	ASTM Coordination	Status	D. Hall will share a status update.
14-28	FTG		8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	On Hold	This item is on hold, pending items 12-50, 12-105, 17-28, and 08-23.
14-62	GTG		9	Evaluate Inclusion of other Fracture Toughness Data (JIC, KJIC)	Agenda	C. Reakes will present this item given inputs from G. Bray.
15-13	MTG		multi	Clarification of Shear Orientation for Legacy Alloys	Status	No action on this item. Further investigation will be conducted for the spring meeting.
15-19	GTG-F		9	Verification of Secondary Modulus Methods for Fasteners	Agenda	C. Shannon will present this item.
15-36	GTG	ISG, GSG	9	Modification of Indirect Analysis Equation	Agenda	B. Krile will present this Item. This will include proposed handling of cases where the secondary property shows a regression effect, as currently handled by MMPDS 9.5.8 Indirect Computation Using Regression.
15-38	GTG		9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	Status	This item will not be covered
15-42	MTG		2	Casting Allowables for 15-5PH and 17-4PH Steel	Agenda	J. Rubadue will present this item. There are some questions that may be unanswerable with the available data.
16-12	FTG		8	Identifying Basis of Fastener Shear Strength on Remaining Tables	On Hold	This item is on hold, pending Battelle's return to the office.
16-13	FTG		8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	On Hold	This item is on hold, pending items 12-50, 12-105, 17-28, and 08-23.
16-20	GTG	ETT G	V2	Equivalence Testing Assuming Change in Process (From Item 11-40)	Status	Reference the 36th Meeting Handout. ISG members are encouraged to try the OSAT on their own data and share

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16-23	GTG		6	Re-evaluate Guidelines for Effect of Temperature Curves	Status	This item will not be covered
17-23	GTG		9	Legacy Alloy Review Strategy – Near Term	Agenda	D. Hall will present this handout.
17-25	GTG		9	Re-evaluation of Reduced Ratio Sample Size Determination	On Hold	This item will not be covered.
17-28	GTG-F	FTG	9	Consideration of Origin in Multiple Regression Analysis for Joint Allowables	Agenda	W. White will present this item. This will include full review of whether current MMPDS applied to the M7885-
17-34	GTG	SSWG	9	Guidelines for Rejection of Stress-Strain Curves from Parametric Analysis	Handout	C. Shannon will present this handout.
17-45	MTG		3	Effect of Temperature Curves for 2395-T84 Extrusion	Agenda	Data are being analyzed. An Agenda Item will be prepared for the 38th Meeting.
17-52	GTG	FatWg	9	Review Section 9.6.1 - Load and Strain Control Fatigue	Status	The Fatigue Working Group will discuss this topic
17-56	MTG		3	FCG Analysis for 2397-T87 Plate	Status	This item will not be covered
17-61	GTG		9	Revising R-curve Requirement in Table 9.2.4	On Hold	This item will not be covered.
17-62	GTG	FatWg	9	Revising Fatigue Requirement in Table 9.2.4	Status	the Fatigue Working Group will discuss this topic
17-63	GTG	FatWg	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status	the Fatigue Working Group will discuss this topic
18-08	MTG		6	718 Investment Cast (AMS5383) Addition of Tensile A/B-basis and Elevated Temperature	Agenda	The data owner is researching thickness of the cast sections.
18-10	GTG	MATSSG	9	Data Requirements for Forgings	Status	MATSSG will discuss this item based on recent addition of requirements for castings.
18-13	GTG		9	Guidelines for Exclusion of Low Secondary Property Test Values	On Hold	This item is on hold pending Item 15-36.
19-19	GTG	FatWg	9	Consideration of a new Equivalent Stress model for Load-Controlled Fatigue	Status	the Fatigue Working Group will discuss this topic
19-25	GTG	ASG	9	Guidelines for Derived Properties for Legacy Alloys	On Hold	At the 37th meeting it was decided to put this item on hold until Items 15-36 and 17-23 are resolved.
19-34	GTG		9	Waive Requirement for Bearing and/or Shear Properties When Appropriate	On Hold	This item will not be covered
19-36	FTG		9	Update Section 9.2.4.7 Fastener Strength Table Sunset Clause	Agenda	C. Reakes will present this item.
19-37	GTG-F	FTG	9	Establish a Guideline for Reinserting Chapter 8 Tables.	Status	C. Reakes will share a status update.
19-38	ETTG		V2	Process Intensive Materials & Technologies SDO Coordination	Status	D. Hall will share a status update.
19-39	FTG		8	Review Chapter 8 Tables Removed by the Sunset Clause	Agenda	C. Reakes will present this item.
19-40	GTG		9	Review Section 9.4 Substantiation of Data	Status	D. Hall will present this item.
19-42	MTG		3	Confirmation of Design Properties of AMS 4202 for 7475-T7351 Aluminum Alloy Plate	Status	C. Shannon will provide a status update. Battelle is looking for more confirmation data.
19-44	MTG		multi	Update Stress-Strain Figures to Report Bron Method Relevance	Agenda	C. Shannon will present this agenda item.
20-03	GTG		9	MMPDS Review & Approval Process	Status	D. Hall will present this item.

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20-04	GTG	ETT	V2	V2: MMPDS Review & Approval Process	Status	D. Hall will present this item.
20-09	MTG		3	Expansion of Thickness Range for 6061-T651 Plate	Status	J. Rubadue will give a status report. Suppliers agreed to supply L and ST data for 6-12 inches to extend minimum properties. However, the material spec is awaiting changes to tolerances in ANSI H35.2 for plate > 8 inch.
20-10	MTG		3	Upgrade of Secondary Properties of 7075-T76511 Aluminum Alloy Extrusions	Agenda	An agenda will be prepared if data are received in time.
20-13	ETT		V2	CMH-17/MMPDS Coordination & Collaboration	Status	D. Hall will share a status update.
20-15	GTG	MATSS G, ASG	9	Revisit Stress-Strain Data Generation Guidelines - Use of Extensometers	Agenda	C. Shannon will present this agenda item.
20-16	GTG	ETT	V2	MMPDS & Additive Metals - Program Plan	Status	D. Hall will share a status update.
20-18	MTG		2	Updates to Low Alloy Steel tables	Agenda	J. Rubadue will present this agenda item.
20-29	GTG		9	Analysis of Bearing and Shear Properties with Reduced Ratios	Status	B. Krile will provide an update. This procedure allows indirect analysis of shear and bearing properties where the reference property is the primary direction shear or bearing determined by direct methods (i.e., at least 100/300 samples). This proposal could apply both now, when indirect analysis of shear and bearing properties has been suspended, and/or in the future when a possible new indirect procedure has been approved under 15-36. Battelle is expecting two new alloy data packages to test this method.
20-30	GTG	ETT	V2	Components of Variance Analysis of AM, Cast, & Wrought Ti 6-4	On Hold	No action on this item.
20-34	GTG		9	Footnote for Expanded Thickness Ranges with No Secondary Properties	Agenda	D. Hall will present this item.
20-35	MTG		multi	Alloys Requested for Analysis	Agenda	J. Rubadue will present this agenda item.
20-36	MTG		multi	Request for Secondary Property Data	Agenda	J. Rubadue will present this agenda item.
21-01	GTG	ETT	V2	Foreword to Volume II	Status	Someone from GSG will provide a quick status.
21-02	GTG	ETT	V2	Section 9.5 & 9.6 for Volume II	Status	D. Hall will share a status update.
21-04	GTG	ETT	V2	Section 9.2.3 - Required Test Methods/Procedures for Volume II	Status	D. Hall will present this item at ETTG.
21-10	FTG		other	Fatigue of PH13-8Mo Bolts	Status	K. Olsen and C. Reakes will lead discussion of this item
21-13	MTG		5	Review of Section 5.5.3 Ti-10V-2Fe-3Al Comments and Properties	Agenda	C. Shannon will present this agenda item.
21-16	GTG	GSG, ASG	1	Acceptance of Column Reduction Method in Section 1.6.4	Agenda	J. Rubadue will present this item.
21-17	GTG	MATSS G	9	Elongation Measurement	Agenda	J. Rubadue will present this item.
21-18	ETT		V2	Updates from V2WG Sub-teams	Status	Each sub-teams will provide a short status of their teams current activities and future plans

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21-19	GTG		9	Chapter 9 Changes Supporting Inclusion of New Fracture Toughness Data from Item 14-62	Agenda	C. Reakes will present this item.
21-20	GTG	ETT	V2	Microstructural Submittal Requirements	Status	R. Grant and P. Guerrier will present this item.
21-23	GTG		9	Definitions of "Design Allowable", "Design Value", and "Material Allowables" for MMPDS	Agenda	C. Shannon will present this agenda item.
21-25	MTG		7	Update of Health and Safety Paragraphs for Beryllium Alloys	Agenda	J. Rubadue will present this agenda item.
21-26	MTG		7	Reference Update for Beryllium	Agenda	J. Rubadue will present this agenda item.
21-27	MTG		7	Update of Section 7.3 Copper and Copper Alloys	Agenda	J. Rubadue will present this agenda item.
21-28	GTG		9	Revision of Section 9.2.3.3 for Full-Range Stress-Strain Curve Requirements	Agenda	C. Shannon will present this agenda item.
21-29	MTG		2	Clarification of AerMet 100 Compression Curve	Agenda	J. Rubadue will present this agenda item for Figure 2.5.3.2.6(b).
21-30	MTG		5	Correction to Ti-4.5Al-3V-2Fe-2Mo Full Range Stress-Strain Curve	Agenda	J. Rubadue will present this agenda item for Figure 5.4.3.1.6(c).
21-31	MTG		2	Update of Section 2.2 Definition of Low Carbon Steel	Agenda	J. Rubadue will present this agenda item.
21-32	MTG			Specification Changes	Agenda	J. Rubadue will present this agenda item.
21-33	MTG		5	Legacy Analysis of AMS 4911 Ti-6Al-4V Sheet and Plate	Agenda	J. Rubadue will present this agenda item.
21-34	GTG		9	Review Stress Strain Figures for Consistency with Updated Section 9.8.4.	Agenda	C. Shannon will present this agenda item. This came from Item 16-02 updating the strain departure method.
21-35	MTG			Review of Stress-Strain Curves Not Meeting Current Criteria for Dual Parameters	Agenda	C. Shannon will present this agenda item from Item 19-21 closed at the 37th meeting.
21-36	ETT		V2	Addition of AMS7038 for 718 Laser Powder Bed Fusion	Agenda	C. Shannon will present this agenda item.
21-37	GTG	ETT	V2	Correction to Volume II Section 9.2.2 - Minimum Data Requirements	Agenda	D. Hall will present this item.
21-38	MTG			Re-analysis of Ti 6-4 Fatigue Curve in Figure 5.4.1.1.8(a)	Agenda	D. Hall will present this item.