



Announcing the
32ND MMPDS COORDINATION MEETING

September 10-13, 2018 Embassy Suites, Scottsdale, AZ

Meeting Schedule

A meeting registration form, a preliminary summary of Agenda Items, and a detailed meeting schedule is attached and can also be found on the MMPDS website at www.mmpds.org.

Noteworthy:

- The Industrial Steering Group (ISG – members and invited guests only) and the Government Steering Group (GSG - members and invited guests only) will meet separately beginning at 1:00 pm Monday, September 10. On Tuesday, September 11, at 8:00 am, the Joint ISG/GSG member only group meeting will take place in the morning. Beginning 10:15, all meeting attendees, regardless of membership, are invited to attend ASG or MATSSG, as appropriate for your organization.
- A lunch buffet is included with meeting fees on Tuesday, Wednesday, and Thursday.
- Thursday, at 3:00 pm, the General Coordination Committee (GCC) will take place.
- A sortable version of the Agenda Summary is available on both the member SharePoint site, or for non-members, it can be found at www.mmpds.org, under the tab for Meetings.

Registration

Meeting attendees will receive a discounted rate for advanced registration if the completed Registration Form, including method of payment, is returned to Battelle by August 25, 2018. Battelle will be coming out with a new secure payment plan in the near future. In the meantime, please call Anne Mundy (614-424-6496) or Kelly Novak (614-424-6454) to pay with credit card numbers.

Hotel Accommodations

The Embassy Suites by Hilton Phoenix-North Scottsdale 4415 E. Paradise Village Parkway S. Phoenix, AZ 85032 MMPDS Meeting Hotel Room Group Rate is \$124.00 USD.

[https://embassysuites.hilton.com/en/es/groups/personalized/P/PHXPVES-MMP-20180906/index.jhtml?](https://embassysuites.hilton.com/en/es/groups/personalized/P/PHXPVES-MMP-20180906/index.jhtml?WT.mc_id=POG)

[WT.mc_id=POG](https://embassysuites.hilton.com/en/es/groups/personalized/P/PHXPVES-MMP-20180906/index.jhtml?WT.mc_id=POG). **Enter MMP for Group Code.** Cut-off date for reserving rooms is August 25 at 5 pm EST or earlier, assuming rooms are not sold out prior to that date. It is strongly recommended that you make your reservation as soon as possible as the number of available rooms is limited. Rates are offered for 3 days before and after the meeting as well, subject to availability.

Or you can phone our toll-free number **1-800-EMBASSY**. In doing so, please ask your attendees to request the group rate for **MMPDS Coordination Meeting**. **The link only will work if there is room inventory available on the dates the guest is requesting. Please contact mundya@battelle.org should inventory become an issue.**

You can also call in your reservation directly with the Hotel reservation department by calling 602-765-5800 to get the \$124.00 USD rate.

If you wish to cancel, please do so **48 hours** prior to arrival to avoid cancellation penalties.



The Group room rate includes the following:

FREE:

- Wireless Internet Access – High speed Internet in all rooms and the lobby.
- Embassy Suites Signature cooked to order breakfast
- Embassy Suites Signature evening reception
- Complimentary parking.
- Complimentary Wifi in guest rooms

Check In Time: 3:00pm Check Out Time: 11:00am

A valid credit card and photo ID to be presented at check in. Arrangements may be made for baggage storage with the Hotel's front desk staff.

Questions? Please email mundya@battelle.org. We look forward to seeing you in Scottsdale, AZ.

32nd MMPDS Coordination Meeting Schedule - Preliminary

September 10-13, 2018, Scottsdale, Arizona

Time	Monday	Tuesday	Wednesday	Thursday			
7:30 am		Continental Breakfast	Continental Breakfast	Continental Breakfast			
8:00 am		Joint ISG/GSG <i>(Members only)</i>	GTG	GTG (FTG-related Items)			
8:30 am				MTG	FTG		
9:00 am							
10:00 am				Break		Break	
10:15 am		MATSSG <i>(Material Suppliers, Test Services only)</i>	ASG <i>(Aircraft Only)</i>	GTG	MTG	FTG	
11:30 am							
12:00 pm							Lunch (buffet included in fee)
1:00pm	ISG <i>(Members only)</i>	GSG <i>(Members only)</i>	ETWG	GTG	MTG	FTG	
2:00 pm							
2:30 pm	Break		MTG				
2:45 pm	ISG <i>(Members only)</i>	GSG <i>(Members only)</i>	ETWG	Break			
3:00 pm				Break			
3:15 pm				MTG	PSG	GCC - Please attend. Resolve/review final decisions and discuss plans for 28th meeting. Select on-going items will be further discussed as time permits.	
4:00 pm							
5:00 pm							
6:00 pm							

KEY

ASG: Airframer Steering Group
 ETWG: Emerging Technology Working Group
 FGWG: Fastener Guidelines Working Group
 FTG: Fastener Task Group
 GCC: General Coordination Committee
 GSG: Government Steering Group (paid membership)

GTG: Guidelines Task Group
 ISG: Industrial Steering Group (paid membership)
 MATSSG: Materials and Testing Services Steering Group
 MTG: Materials Task Group
 PSG: Propulsion Steering Group



32nd MMPDS Coordination Meeting Registration Form

Embassy Suites Hotel

September 10-13, 2018
Scottsdale, Arizona

Register in advance and SAVE!

The advanced registration discount closes on August 25, 2018. The completed Meeting Registration Form, including information for method of payment, must be received at Battelle by this date in order to take advantage of the discounted rate.

Today's Date: _____

Please Click the Box before each Meeting in which you intend to participate.

Attendee Information:

Name _____

Company _____

Address _____

City _____

State, Zip Code, Country _____

Phone _____

Email Address _____

Monday, September 10, 2018

- 1:00 pm –ISG (Members Only)
- 1:00 pm –GSG (Members Only)

Tuesday, September 11, 2018

- 8:00 am - JOINT (GSG/ISG Members)
- 10:15 am – MATSSG
- 10:15 am – ASG
- 1:00 pm – ETWG

Wednesday, September 12, 2018

- 8:00 am – GTG
- 1:00 pm – GTG
- 2:00 pm – MTG
- 4:00 pm – PSG

Thursday, September 13, 2018

- 8:00 am – FTG Related
- 8:30 am - MTG
- 8:30 am - FTG
- 1:00 pm - MTG
- 1:00 pm - FTG
- 3:15 pm – GCC

Are you a Paid Member of the Industrial or Government Steering Group?

YES NO

REGISTRATION TYPE (Check One)

- General Attendance (2 or More Dates)
- One Day Only (Single Date of Meeting)

RATES (includes buffet lunch on Tues, Wed, and Thur)

Prior to August 25, 2018

- Member - \$550 USD (2 or more dates)
- Member - \$300 USD (1 date)
- Non-Member - \$600 USD (2 or more dates)
- Non-Member - \$350 USD (1 Date)

After August 25, 2018

- Members & Non-Members
- \$700 USD (2 or more dates)
- \$400 USD (One Date)

Submit Registration Form via Email to: Mundya@Battelle.org

METHOD OF PAYMENT

- MasterCard
- Visa
- American Express
- Discover

Name on Card: _____

Card Number: _____
Please CALL Anne (614-424-6496) or Kelly (614-424-6454)

Amount: USD	Expiration Date: CALL
Zip Code for Billing	Secure ID Code: CALL

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
43173	MTG		1	Review of Currency of Existing Database on Legacy Alloys	Agenda	J. Rubadue will give an update.
04-21	FTG		8	Fastener Tables of Sunset Review Interest	On Hold	On hold until new guidelines (Item 12-105, 17-28 thru 17-30 and 12-50) are done.
08-23	FTG		8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold	On hold until new guidelines (Item 12-105, 17-28 thru 17-30 and 12-50) are done.
09-13	FTG		8	Sunset Review of Table 8.1.3.2.3(a), MS21140	Status	C. Shannon will give a status on the requested shear data. The analysis will be on hold until new guidelines (Item 12-105, 17-28 thru 17-30 and 12-50) are done.
10-13	MTG	ASG	2	Wrought Steels S-Basis Summary	Status	J. Rubadue will give an update.
10-14	MTG		3	Wrought Aluminum Alloys with S-Basis Minimums	Agenda	J. Rubadue will give an update.
10-15	MTG		3	Mechanical Properties for Aluminum Alloy Forgings	Status	
10-17	MTG		3	Re-evaluate Legacy Alloy Stress-Strain Curves in Chapter 3	On Hold	Legacy alloy stress-strain curves are needed for this item.

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
10-25	GTG-F	FTG	9	Fastener Installation Parameters for Joint Tension Allowables	Agenda	C. Shannon (if approved by FTG, this needs to be presented in GTG-F, remove FTG from col K)
11-05	MTG		1	AMS Coordination	Status	J. Rubadue will give an update.
11-15	MTG		2	Division of Low Alloy Steel Table 2.3.1.0(g2)	Status	J. Rubadue will give an update.
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	On hold until new guidelines (Item 12-105) are done.
11-43	FTG		8	Supporting Data and Basis Identification for Table 8.1.2(b)	Status	
12-16	MTG	ASG/ MATSSG	2	Footnote for Steel When Test Specimen is Not From Full Thickness	Status	
12-17	MTG	MATSSG	6	Footnote for Non-Ferrous Alloys Test Specimen When Not From Full Thickness	Status	
12-44	MTG		5	Design Allowable Properties for Ti-3Al-2.5V Tubing	Status	
12-45	MTG		2	21-6-9 (Nitronic 40) Tubing	Status	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
12-50	GTG-F	FTG	9	Evaluation of new Regression and Confidence Models for Lap Joint Tests	Status	
12-52	GTG-F	FTG	9	Fastener Minimum t/D Requirements	Agenda	
12-89	GTG	PSG		Target Materials for Propulsion Applications	Status	
12-105	GTG-F	FTG	9	Modification to the Sunset Criteria Procedures	Status	
13-32	MTG		3	Bearing Strength Reduction for Edgewise Orientation from Extruded Bar	Status	This item is on hold until more data is available
13-34	MTG		5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Status	
13-35	MTG	MATSSG	6	Upgrade S-Basis to A- and B-Basis for 718 Bar Nickel-Base Alloys per AMS 5962	Agenda	
13-43	MTG		3	Addition of ST Bearing Properties for 7085-T7451 Plate	Status	
13-50	GTG		9	ASTM Coordination	Status	
14-19	GTG		9	Inclusion of Kisi Fracture Toughness Data	Status	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

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14-24	MTG		4 thru 7	Identification of Stress-Strain Curves Which Have Been Evaluated for 2-Shape Factor for Chapters 4-7	Status	
14-28	FTG		8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	Status	
14-61	GTG	PSG	9	Update Creep Guidelines	On Hold	
14-62	GTG		9	Evaluate Inclusion of other Fracture Toughness Data (JIC, KJIC)	Agenda	
14-66	MTG		2	Addition of 15-5PH Sheet S-Basis per AMS 5862 for H1025 Condition	Status	Data are requested.
14-67	MTG		3	Addition of 3-6 Inch Range for 7075-T73X Bar and Rod per AMS 4124	Status	Data are requested.
15-13	MTG		multi	Clarification of Shear Orientation for Legacy Alloys	Agenda	
15-19	GTG-F	FTG	9	Verification of Secondary Modulus Methods for Fasteners	Status	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

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15-34	GTG		9	Stress-Strain Curve Extension	Agenda	
15-36	GTG		9	Modification of Indirect Analysis Equation	Agenda	
15-37	GTG		9	Guidelines for Strain-Rate Sensitive Materials	Status	
15-38	GTG		9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	Agenda	
15-40	GTG	ASG/MATSSG	9	Guidelines for When Specimens Are Not From Full Thickness	Status	
15-42	MTG		3	Casting Allowables for 15-5PH and 17-4PH steel	Agenda	
15-46	GTG	MATSSG	9	Cross-Sectional Information Requirement for Extrusions	Agenda	J. Rubadue will present this agenda to add guidelines to Chapter 9 for extrusions based on the presentation given in the 31st meeting by J. Goodman.
15-51	GTG	ASG/MATSSG/GSG	9	Periodic Testing of Materials for Derived Properties	Agenda	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
16-02	GTG		9	Updates to Strain Departure Methods for Stress-Strain Curve Analyses	Status	
16-10	MTG	ASG	3	Legacy Alloy 7075-T6 Indirect Properties Update	Agenda	
16-12	FTG			Identifying Basis of Fastener Shear Strength on Remaining Tables	Status	
16-13	FTG		8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	Status	
16-15	GTG	ETWG	9	Emerging Technology Working Group	Status	
16-20	GTG		9	Equivalence Testing Assuming Change in Process (From Item 11-40)	Agenda	
16-22	MTG	ASG	multi	Identification of Forging Types for Tables with A- and B-basis	Agenda	
16-23	MTG	PSG	6	Re-evaluate Guidelines for Effect of Temperature Curves	Agenda	
16-24	GTG		9	Guidelines for Modulus When Average Value is Insufficient	Agenda	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

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	Final	Initial				
16-29	GTG		1	Review of Section 1.4.7 Bearing Properties	Agenda	
16-30	MTG		2	AM-355 Stainless Steel in SCT850 Condition	Status	
16-34	GTG		9	Review Guideline on Stress-Strain Submittal for Number of Curves per Thickness Range	Agenda	
16-36	GTG-F	FTG	9	Use of T99 as A-Basis When Higher than Specification for Fastener Shear and Tension	Agenda	
16-37	GTG-F	FTG	1	Chapter 1 Guidelines on Fastener Design Allowable Usage	Agenda	(Carinne - sounds like this may be ready for GTG-F. Make sure FTG ages. If so, column K should be cleared - j)
16-40	MTG		7	Estimated Values in Table 7.3.2.0(c) Copper Beryllium Strip	Status	
16-41	GTG		9	Update Static Property Examples in Section 9.8.1	Agenda	J. Rubadue will present this agenda item.
17-09	MTG		3	Fatigue Curves for 2099-T83 Extrusion	Status	
17-10	MTG		4	Fatigue Curve for 2099-T81 Extrusion	Status	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
17-19	MTG		2	Addition of Transverse Bearing Strength Properties for Custom 465 Bar	Status	
17-23	GTG		9	Legacy Alloy Review Strategy – Near Term	Status	
17-25	GTG		9	Re-evaluation of Reduced Ratio Sample Size Determination	Agenda	
17-26	GTG	G/MATSSG/P	9	Guidelines for Generation and Use of A/B Allowables for Castings	Status	
17-28	GTG-F	FTG	9	Consideration of Origin in Multiple Regression Analysis for Joint Allowables	Status	
17-29	GTG-F	FTG	9	Replacement of T90 Yield Curve with a Multiple-Regression Typical Yield Curve for Joint Allowables	On Hold	
17-30	GTG-F	FTG	9	Revision of Table Format for Joint Allowables	On Hold	
17-31	FTG		9	Sunset Shear Strength Rule Criteria Addition	Agenda	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
17-32	GTG-F	FTG	8	Edit Table 8.1.5.1	Agenda	(Carinne - sounds like this may be ready for GTG-F. Make sure FTG agees. If so, column K should be cleared - j)
17-33	GTG		9	Alternative Fitting Function for Effect of Temperature Data	Agenda	
17-34	GTG	SSWG	9	Guidelines for Rejection of Stress-Strain Curves from Parametric Analysis	Status	
17-39	GTG			Stress-Strain Curve Working Group	Status	
17-41	MTG		3	R-Curve for Alclad 2029-T8 Aluminum Alloy Sheet	Agenda	
17-43	MTG		3	R-Curves for 2624-T39 and T351 Aluminum Alloy Plate	Agenda	
17-44	GTG		9	Clarification of Ten-Lot Minimum Requirement for Derived Properties	Status	
17-45	MTG		3	Effect of Temperature Curves for 2395-T84 Extrusion	Agenda	
17-47	GTG-F	FTG	9	Clarification of Guidance for Normal/Censored Normal Analysis	Agenda	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
17-52	GTG	FatWG		Review Section 9.6.1 - Fatigue (get the exact title)	Status	
17-54	MTG		3	Inclusion of Properties for AMS 4221, 2124-T8151 Plate	Status	
17-55	MTG	PSG		Supplemental Data for Ti-6-2-4-2 Forging	Status	Rich has data for creep, fatigue, and crack growth of forgings
17-56	MTG			FCG Analysis for 2397-T87 Plate	Status	
17-57	MTG			Re-evaluate Fatigue Analysis for 2024-T4 Multiple Product Forms	Agenda	
17-58	MTG			How Casting Specification Work	On Hold	
17-61	GTG		9	Revising R-curve Requirement in Table 9.2.4	Agenda	
17-62	GTG	FatWG	9	Revising Fatigue Requirement in Table 9.2.4	Agenda	
17-63	GTG	FatWG	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status	
17-64	GTG	ETWG		Northrop Grumman Design Allowables for Additive Ti 6-4	Presentation	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
17-69	GTG	ASG, MATSSG	9	Pairing of Tensile Coupon with Shear and Bearing Orientations	Status	
18-01	GTG	G, ASG, MATS	3	Environmentally Assisted Cracking in Aluminum Alloys (EASA SIB 2018-04)	Agenda	Should this item be closed?
18-04	GTG	MATSSG	9	Determine Minimum Thickness for Die-forging Bearing Tests	Agenda	
18-05	GTG	MATSSG	9	Data Quantities for Large Gage Ranges	Agenda	
18-06	GTG-F	FTG	9	Revision of Figure 9.3.4.4 Failure Codes for Fasteners	Agenda	
18-07	FTG	WWG	8	Review of Inconsistencies in Table 8.2.3.3.2(d) for Spot-Weld Joints	Status	
18-08	MTG		6	718 Investment Cast (AMS5383) Addition of Tensile A/B-basis and Elevated Temperature	Agenda	
18-09	GTG		1	Update Creep Guidance in Chapter 1	Status	
18-10	GTG		9	Data Requirements for Forgings	Status	

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

^7/1/2018

Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
18-11	MTG		3	Stress-Strain Curves for 2050-T852 Aluminum Alloy Die Forging 4.000-6.000 inch	Agenda	
18-12	GTG		9	Guidelines for Smooth Transition of Properties Across Thickness Ranges	Agenda	
18-13	GTG		9	Guidelines for Exclusion of Low Secondary Property Test Values	Status	
18-14	MTG		3	Addition of A206.0-T4 and T71 Sand Casting Stress-Strain Curves, Physical Properties, and Fatigue Analyses	Agenda	
18-15	GTG		9	Guidelines for Non-Monotonic Stress-Strain Response	Status	
18-16	MTG		3	Full-Range Stress-Strain Curves for 2050-T852 Aluminum Alloy Die Forging	Agenda	
18-17	MTG		3	Design Allowable Properties for 7160-T7651 Aluminum Alloy Plate	Agenda	J. Rubadue will present this agenda item.

32nd MMPDS Coordination Meeting

Preliminary Agenda

SORTED BY ITEM NUMBER

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Item No	Responsible Group		Chpt	Title	Type	32nd Meeting Description
	Final	Initial				
18-18	FTG		8	Update AMS-QQ-A-250/4 in Table 8.2.2.1.2(a) (MMPDS-13)	Agenda	C. Shannon will present this agenda item to replace stabilized QQ specification with AMS specifications.
18-19	MTG		5	Legacy Confirmation for Ti-6-4 Investment Castings per AMS4992	Status	Battelle has data from Howmet and PCC (2000-2003 vintage)
18-20	MTG		3	Upgrade S-Basis to A- and B-Basis 7075-T76, T7651 Bare and Clad Sheet and Plate	Status	Battelle has data from Aleris, Alcoa, AMAG, and Kaiser (2011-2015 vintage)
18-21	MTG		3	Upgrade S-basis to A/B-basis for 2219-T852 Aluminum Alloy Hand Forgings	Status	Battelle has data from Weber and Alcoa (2009-2010 vintage)
18-22	MTG		3	Legacy Confirmation and Upgrade to A- and B-basis for 7075-T76511 Extrusion	Status	
NIN	MTG		6	Secondary Properties for 718 Bar per AMS 5662 and AMS 5663	Status	