CMH-17
COMPOSITE MATERIALS HANDBOOK

1st CMH-17 Joint Coordination Meeting

April 22-25, 2024

Scottsdale, AZ

8:00 am – 5:30 pm MST

Spring 2024 – Hybrid

Open Coordination

(9:00 am - 2:15 pm MST)

CMH-17
COMPOSITE MATERIALS HANDBOOK

CMH-17 WG Reorganization

Outline

CMH-17
COMPOSITE MATERIALS HANDBOOK

- Reorganization Goals
- Working Group and Task Group Definitions
  - Current Arrangement and Discussion Points for Future Consolidation
- Content Development Process
- Future Publications
- Other Topics
- This Week Activities
- Next Actions

Reorganization Goals

CMH-17
COMPOSITE MATERIALS HANDBOOK

- We plan to investigate and implement several changes to the CMH-17 organization and publication

✓ 1. Combine all four coordination groups into one CMH-17 group
✓ 2. Hold meetings semi-annually, in person in the spring and virtually in the fall

Accomplished for this meeting, but need to evaluate if it's effective and desirable for the future

3. Incrementally combine and reduce the number of "standing" working groups
4. Increase the use of task groups to write specific content (beyond current Vol 3, 5, and 7 releases)
5. Change publication methods to: (a) better support quicker electronic release cycles; and (b) improve content arrangement and availability
6. Revamp yellow page process to simplify and automate balloting procedures and publication
7. Consider different membership structure
8. Investigate becoming an ANSI-certified SDO, or joining an SDO

Future WG and TG Roles and Responsibilities

CMH-17
COMPOSITE MATERIALS HANDBOOK

Working Group

- "Own" handbook content
- Permanent, standing group
- May be a joint (multiple material systems) or material system-specific group
- Maintain institutional knowledge of the handbook content
- Identify new or revised content needs
- Write updates for any topics that are wholly within that WG purview
  - Editorial corrections
  - Relevant technical content that doesn't require specialist input from outside the WG (eg, engine group probably doesn't need a TG, Guidelines wouldn't need a TG to update definitions or abbreviations)
- Remove or caveat obsolete content
- Hold sessions at the semi-annual CMH-17 meeting; may or may not require WG meetings between CMH-17 meetings

Task Group

- Temporary multi-discipline group formed to efficiently write specific content
- Expected to draw members from across the organization (or new members) with the required skill and knowledge to develop the content, regardless of their existing WG membership
- Formed during coordination meetings where TG leaders are selected, members solicited, and a timeline proposed
- Report out at the semi-annual CMH-17 meeting; may or may not have a session at the CMH-17 semi-annual meeting; expected to hold TG meetings between CMH-17 meetings

VOLUME 1

1 GENERAL INFORMATION

2 GUIDELINES FOR PROPERTY TESTING OF COMPOSITES

3 EVALUATION OF REINFORCEMENT FIBERS

4 MATRIX CHARACTERIZATION

5 PREPREG MATERIALS CHARACTERIZATION

6 LAMINA, LAMINATE, AND SPECIAL FORM CHARACTERIZATION

7 STRUCTURAL ELEMENT CHARACTERIZATION

VOLUME 4

1 GUIDELINES

2 DESIGN GUIDELINES FOR METAL MATRIX MATERIALS

3 MATERIALS PROPERTIES DATA

APPENDIX A TYPICAL PUSHOUT TEST DATA

APPENDIX B RAW DATA TABLES FOR MATRIX MATERIALS

APPENDIX C RAW DATA TABLES FOR METAL MATRIX COMPOSITE MATERIALS

VOLUME 3

1 GENERAL INFORMATION

2 INTRODUCTION TO COMPOSITE STRUCTURE DEVELOPMENT

3 AIRCRAFT STRUCTURE CERTIFICATION AND COMPLIANCE

4 BUILDING BLOCK APPROACH FOR COMPOSITE STRUCTURES

5 MATERIALS AND PROCESSES - THE EFFECT OF VARIABILITY ON COMPOSITE PROPERTIES

6 QUALITY CONTROL OF PRODUCTION MATERIALS AND PROCESSES

7 DESIGN OF COMPOSITES

8 ANALYSIS OF LAMINATES

9 STRUCTURAL STABILITY ANALYSES

10 DESIGN AND ANALYSIS OF BONDED JOINTS

11 DESIGN AND ANALYSIS OF BOLTED JOINTS

12 DAMAGE RESISTANCE, DURABILITY, AND DAMAGE TOLERANCE

13 DEFECTS, DAMAGE, AND INSPECTION

14 SUPPORTABILITY, MAINTENANCE, AND REPAIR

15 THICK-SECTION COMPOSITES

16 CRASHWORTHINESS AND ENERGY MANAGEMENT

17 STRUCTURAL SAFETY MANAGEMENT

18 ENVIRONMENTAL MANAGEMENT

19 SPACE APPLICATIONS

20 ENGINE APPLICATIONS

VOLUME 5

1 CMH-17 GUIDELINES AND PROCEDURES

2 INTRODUCTION, HISTORY AND OVERVIEW

3 PROCESSING, CHARACTERIZATION, AND MANUFACTURING

4 QUALITY CONTROL OF PRODUCTION MATERIALS AND PROCESSES

5 APPLICATIONS, CASE HISTORIES AND LESSONS LEARNED

6 DESIGN AND ANALYSIS

7 MAINTAINABILITY AND SUPPORTABILITY

8 THERMO-MECHANICAL-PHYSICAL TEST METHODS - OVERVIEW

9 MATERIAL TESTING & CHARACTERIZATION FOR SUBMISSION OF DATA TO CMH-17

10 EVALUATION OF REINFORCEMENTS

11 EVALUATION OF MATRIX MATERIALS

12 EVALUATION OF INTERFACE MATERIAL

13 EVALUATION OF COMPOSITES

14 SUBCOMPONENT TESTING – OVERVIEW OF PROBLEM

15 MACHINING & GRINDING

16 DATA SUBMISSION, FORMAT AND REQUIREMENTS

17 STATISTICAL METHODS

18 CMC PROPERTY DATA

19 ENGINE APPLICATIONS

VOLUME 6

1 GENERAL INFORMATION

2 GUIDELINES FOR PROPERTY TESTING

3 MATERIAL DATA

4 FABRICATION OF SANDWICH STRUCTURES

5 QUALITY CONTROL

6 DESIGN AND SUBSTANTIATION FOR SANDWICH STRUCTURES

7 INTERNAL LOADS AND STRESSES

8 ANALYSIS AND STRUCTURAL DESIGN

9 DAMAGE ASSESSMENT OF SANDWICH STRUCTURES

10 SUPPORTABILITY

11 SANDWICH DESIGN CASE STUDIES

12 SUPPORTING DATA AND DISCUSSIONS

VOLUME 2

1 GENERAL INFORMATION

2 CARBON FIBER COMPOSITES

3 BORON FIBER COMPOSITES

4 GLASS FIBER COMPOSITES

5 QUARTZ FIBER COMPOSITES

APPENDIX A1 CMH-17A DATA

VOLUME 7

1 CMH-17 AM INTRODUCTION AND GUIDELINES

2 CHARACTERIZATION CONSIDERATIONS

3 EVALUATION OF FEEDSTOCK

4 PROCESSING AND MANUFACTURING

5 QUALITY CONTROL OF PRODUCTION MATERIALS AND PROCESSES

6 MATERIAL TESTING & CHARACTERIZATION FOR SUBMISSION OF DATA TO CMH-17

7 PROPERTY TESTING OF ADDITIVELY MANUFACTURED MATERIALS

8 STATISTICAL METHODS

9 EVALUATION OF AM PARTS

10 ELEMENT LEVEL TESTING

11 DESIGN AND ANALYSIS

12 MAINTAINABILITY AND SUPPORTABILITY

13 APPLICATIONS, CASE HISTORIES, AND LESSONS LEARNED

14 AM PROPERTY DATA

Current Working Outlines

Topic: Introduction

Volume	Chapter	Current WG	Future WG
1	1 General Information	PMC Guidelines (+M&P, Specialized Data)	Joint Guidelines
2	1 General Information (1.1-1.4, 1.7, 1.8, 1.9)	PMC Guidelines (+Data Review)	Joint Guidelines
3	1 General Information	PMC Guidelines	Joint Guidelines
4	1 Guidelines (1.1, 1.2)	N/A	Joint Guidelines
5	1 Guidelines and Procedures 2 Introduction, History and Overview	CMC Guidelines CMC M&P	Joint Guidelines ???
6	1 General Information	Sandwich	Joint Guidelines
7	1 Guidelines and Procedures	AM Guidelines	Joint Guidelines

- Proposal: Joint Guidelines WG for all material systems / volumes
  - They own Chapter 1 in all volumes (handbook introduction, overview, purpose, scope, definitions, abbreviations, etc.)
  - They filter work proposals and identify the proper WG(s) who owns the content and if a new WG or TG is needed (will discuss later when we get to Content Development Process)
- Vol 5 has a unique chapter on “Introduction, History and Overview”
  - Should other materials have something similar?
  - Who should own the content?

Topic: Guidelines for Property Testing

Volume	Chapter	Current WG	Future WG
1	2 Guidelines for Property Testing of Composites	PMC Guidelines (+Spacecraft)	
2	N/A		
3	N/A		
4	N/A		
5	8 Thermo-Mechanical-Physical Test Methods – Overview	CMC Testing	
6	N/A	Sandwich	
7	2 Characterization Considerations	AM Guidelines	

- Includes building block approach, test program planning, and recommended test matrices
  - Although Vol 6 Chapter 2 has this title, the content focuses on testing of individual sandwich components (e.g., “evaluation of core materials,” “evaluation of face sheet properties,” etc., not overall test planning the way Chapter 2 appears in Vol 1 and 7 and Chapter 8 appears in Vol 5
- Who should own this? A joint group? A different group for each material system?
  - If Guidelines becomes a joint group, is there also a need for individual material system-specific guidelines WG to own content such as this?

Topic: Testing

Volume	Chapter	Current WG	Future WG
1	3 Evaluation of Reinforcement Fibers 4 Matrix Characterization 5 Prepreg Materials Characterization 6 Lamina, Laminate, and Special Form Characterization 7 Structural Element Characterization	PMC Testing	
2	N/A		
3	N/A		
4	1 Guidelines (1.3-1.10)	N/A	
5	3 Processing, characterization and manufacturing (3.6) 10 Evaluation of Reinforcements 11 Evaluation of Matrix Materials 12 Evaluation of Interface Material 13 Evaluation of Composites 14 Subcomponent Testing – Overview of Problem 15 Machining & Grinding *(assume this is for test specimens)*	CMC M&P CMC Testing CMC Testing CMC Testing CMC Testing CMC Testing CMC Testing	Chapters 11, 12, 14 and 15 have no content
6	2 Guidelines for Property Testing	Sandwich*	*See next slide
7	3 Evaluation of Feedstock 6 Material Testing & Characterization for Submission of Data to CMH-17 7 Property Testing of Additively Manufactured Materials 9 Evaluation of AM Parts 10 Element Level Testing	AM Testing	

- WG defines test methods at all levels of the building block, although coupon-level tests have the most information, due to their standard methods and requirements to develop handbook datasets
- Can this be managed by a joint group, or should each material system have a WG?

Special Case: Sandwich Structure

- Spoiler Alert: Sandwich WG currently owns all of Volume 6, yet that volume has a full range of topics including M&P, testing, design, analysis, repair, etc.
- Is it reasonable to have one WG for all of that, or should it be divided?
  - This is a matrix problem that we can slice and dice multiple ways
  - Option 1 is to create TG for Volume 6, but keep the sandwich WG as the content "owner" except for Chapter 1
  - Option 2 is to use existing topical WG to own all the content and disband the sandwich WG
- This will be discussed in the Sandwich WG sessions Wednesday afternoon

Option 1 (Keep Sandwich WG as overall owner, with multiple TG)	**V6 Chapter**	**Option 2** (Disband Sandwich WG and have other WG own content)
Guidelines WG	1 General Information	Guidelines WG
Sandwich TG 1	2 Guidelines For Property Testing	Testing WG
	3 Material Data	Data Review WG
Sandwich TG 2	4 Fabrication Of Sandwich Structures	M&P WG
	5 Quality Control	M&P WG
Sandwich TG 4	6 Design And Substantiation For Sandwich Structures	D&A WG
Sandwich TG 3	7 Internal Loads And Stresses	D&A WG
	8 Analysis And Structural Design	D&A WG
Sandwich TG 4	9 Damage Assessment Of Sandwich Structures	Supportability WG
Sandwich TG 5	10 Supportability	Supportability WG
	11 Sandwich Design Case Studies	D&A WG
Sandwich TG 3	12 Supporting Data And Discussions	D&A WG

The sandwich TG are a firm proposal The WG are just examples of how things could be divided into existing or future topic-based WG

Topic: Submitting Data

CMH-17
COMPOSITE MATERIALS HANDBOOK

Volume	Chapter	Current WG	Future WG
1	N/A		
2	1 General Information (1.5, 1.6, 1.10-1.12)	PMC Data Review (+M&P, Testing)	
3	N/A		
4	N/A		
5	8 Material Testing and Characterization for Submission of Data to CMH-17 16 Data Submission, Format and Requirements	CMC Testing CMC Data Review	
6	2 Guidelines for Property Testing (2.2)	Sandwich	
7	6 Material Testing & Characterization for Submission of Data to CMH-17	AM Testing (6.1-6.4) and AM Data Review (6.5)	

- A specific subset of information that defines requirements for material to be included in the handbook
  - May include requirements for M&P specs/controls, may define test requirements, or may only discuss data requirements and presentation
- Currently managed by a variety of WG Should this be standardized across the material systems? Should it be a joint group? Individual groups?

Topic: Statistics

Volume	Chapter	Current WG	Future WG
1	8 Statistical Methods	PMC Statistics	Joint Statistics
2	N/A		
3	N/A		
4	1 General (1.11)	N/A	
5	17 Statistical Methods	CMC Data Review	Joint Statistics
6	N/A		
7	8 Statistical Methods	AM Statistics	Joint Statistics

- Propose that this be managed by a single joint WG, as the statistical principles are common across the material systems, even when sources of variability differ, and some details may be different

Topic: Material Data

Volume	Chapter	Current WG	Future WG
1	N/A		
2	2 Carbon Fiber Composites 3 Boron Fiber Composites 4 Glass Fiber Composites 5 Quartz Fiber Composites Appendix A1 CMH-17A Data	PMC Data Review	
3	N/A		
4	3 Materials Property Data Appendix A Typical Pushout Test Data Appendix B Raw Data Tables for Matrix Materials Appendix C Raw Data Tables for Metal Matrix Composite Materials	N/A	
5	18 CMC Property data	CMC Data Review	
6	3 Material Data	Sandwich	
7	14 AM Property Data	AM Data Review	

- This WG has a different process for approving content than other yellow pages to ensure proper data pedigree
- Should this be a joint group, or a different group for each material system?

Topic: Processing and Manufacturing

CMH-17
COMPOSITE MATERIALS HANDBOOK

Volume	Chapter	Current WG	Future WG
1	N/A		
2	N/A		
3	5 Materials and Processes – the effect of variability on composite properties 6 Quality Control of Production Materials and Processes	PMC M&P PMC M&P	
4	N/A		
5	3 Processing, Characterization and Manufacturing (3.1-3.5) 4 Quality Control of Production Materials and Processes	CMC M&P CMC M&P	
6	4 Fabrication of Sandwich Structures 5 Quality Control	Sandwich Sandwich	
7	4 Processing and Manufacturing 5 Quality Control of Production Materials and Processes	AM M&P AM M&P	

- Currently each material system has their own M&P WG
  - Should they be combined?
  - Should Sandwich have a separate Sandwich M&P WG or TG?

Topic: Design

Volume	Chapter	Current WG	Future WG
1	N/A		
2	N/A		
3	2 Introduction to Composite Structure Development 7 Design of Composites 10 Design and Analysis of Bonded Joints (10.1-10.3) 11 Design and Analysis of Bolted Joints (11.1-11.3)	PMC Guidelines	
4	2 Design Guidelines for Metal Matrix Materials (partial 2.1-2.3)	N/A	
5	6 Design and analysis (6.1-6.3)	CMC D&A	
6	6 Design and Substantiation for Sandwich Structures (6.1, 6.2) 8 Analysis and Structural Design (8.3-8.5)	Sandwich	
7	11 Design and Analysis (partial)	AM D&A	

- Design content is scattered throughout Volume 3, but more concise in the other volumes
- Some design content is often combined with analysis
- V3C7 could be applicable to other material systems, parts and applications
- V3C2 is written for PMC, but could be generalized for other material systems
- Should Sandwich have a separate specific WG or TG for this topic?
- How do we want to manage this moving forward? Will not be part of Joint Guidelines

Topic: Structural Substantiation and Analysis

HANDBOOK

Volume	Chapter	Current WG	Future WG
1	N/A		
2	N/A		
3	3 Aircraft Structure Certification and Compliance 4 Building Block Approach for Composite Structures 8 Analysis of Laminates 9 Structural Stability Analysis 10 Design and Analysis of Bonded Joints (10.4-10.6) 11 Design and Analysis of Bolted Joints (11.4-11.6) 12* Damage Resistance, Durability, and Damage Tolerance 14* Supportability, Maintenance, and Repair 15 Thick-Section Composites	PMC Guidelines PMC Guidelines PMC Guidelines PMC Guidelines PMC Guidelines PMC Guidelines PMC DT (some DD)** PMC Supportability PMC Specialized Data	
4	2 Design Guidelines for Metal Matrix Materials (partial 2.1-2.3)	N/A	
5	3 Processing, Characterization and Manufacturing (3.8) 6 Design and analysis (6.3-6.5) Appendix A Derivation of the Residual Strength Reduction Expressions for LCF and Rupture Loadings	CMC M&P CMC D&A CMC D&A	
6	6 Design and Substantiation for Sandwich Structures (6.3, 6.4) 7 Internal Loads and Stresses 8 Analysis and Structural Design (8.1, 8.2, 8.6) 9 Damage Assessment of Sandwich Structures	Sandwich	
7	11 Design and Analysis (partial)	AM D&A	

*This chapter could go in multiple categories

** These are both task groups. In the future we should either identify an existing WG or change one or both of the TG into WG

- Analysis and substantiation content is scattered throughout Volume 3, but more concise in the other volumes
  - Is it possible our content is out of balance in this subject?
- Design content is often combined with analysis
- V3C3 could be applicable to other material systems

- V3C4 Building Block Approach is written for PMC, but all other material systems have similar content Can/Should it be combined?
- Should Sandwich have a separate specific WG or TG for this topic?
- How do we want to manage this moving forward? Will not be part of Joint Guidelines

Topic: Inspection and Maintenance

CMH-17
COMPOSITE MATERIALS HANDBOOK

Volume	Chapter	Current WG	Future WG
1	N/A		
2	N/A		
3	12* Damage Resistance, Durability, and Damage Tolerance 13 Defects, Damage and Inspection 14 Supportability, Maintenance, and Repair	PMC DT PMC DT PMC Supportability	
4	N/A		
5	3 Processing, characterization and manufacturing (3.7) 7 Maintainability and Supportability	CMC M&P CMC D&A	
6	10 Supportability	Sandwich	
7	12 Maintainability and Supportability	AM D&A	

* This chapter could go in multiple categories

- Inspection and Maintenance is related to damage tolerance for numerous damage threats (environmental defects, corrosion, manufacturing escapements, all categories of accidental factory/field damage, fatigue)
- Currently owned by a variety of WG
  - Should they be combined into one or more WG dedicated to this topic?
  - Should Sandwich have a separate specific WG or TG for this subject?

Topic: Applications

Volume	Chapter	Current WG	Future WG
1	N/A		
2	N/A		
3	19 Space Applications 20 Engine Applications	Space Engine	
4	2 Design Guidelines for Metal Matrix Materials (2.4)	N/A	
5	5 Applications, Case Histories and Lessons Learned 19 Engine Applications	CMC M&P Engine	
6	11 Sandwich Design Case Studies	Sandwich	
7	13 Applications, Case Histories, and Lessons Learned	AM D&A	

- Recommend keeping separate WG that own content for applications such as Space, Engine, and Interiors
  - Applications are likely to cover multiple material systems
- CMC, Sandwich and AM have “case histories and lessons learned” that are not segregated that way in PMC
  - SoBR, Design, and other V3 chapters have examples/case histories
  - How do we want to organize this in the future and how will we manage the content?

Special Topics

Volume	Chapter	Current WG	Future WG
1	N/A		
2	N/A		
3	12* Damage Resistance, Durability, and Damage Tolerance 16 Crashworthiness and Energy Management 17 Structural Safety Management 18 Environmental Management	PMC DT (some DD)** PMC Crashworthiness PMC Safety Management PMC M&P	
4	N/A		
5	N/A		
6	12 Supporting Data and Discussions	Sandwich	
7	N/A		

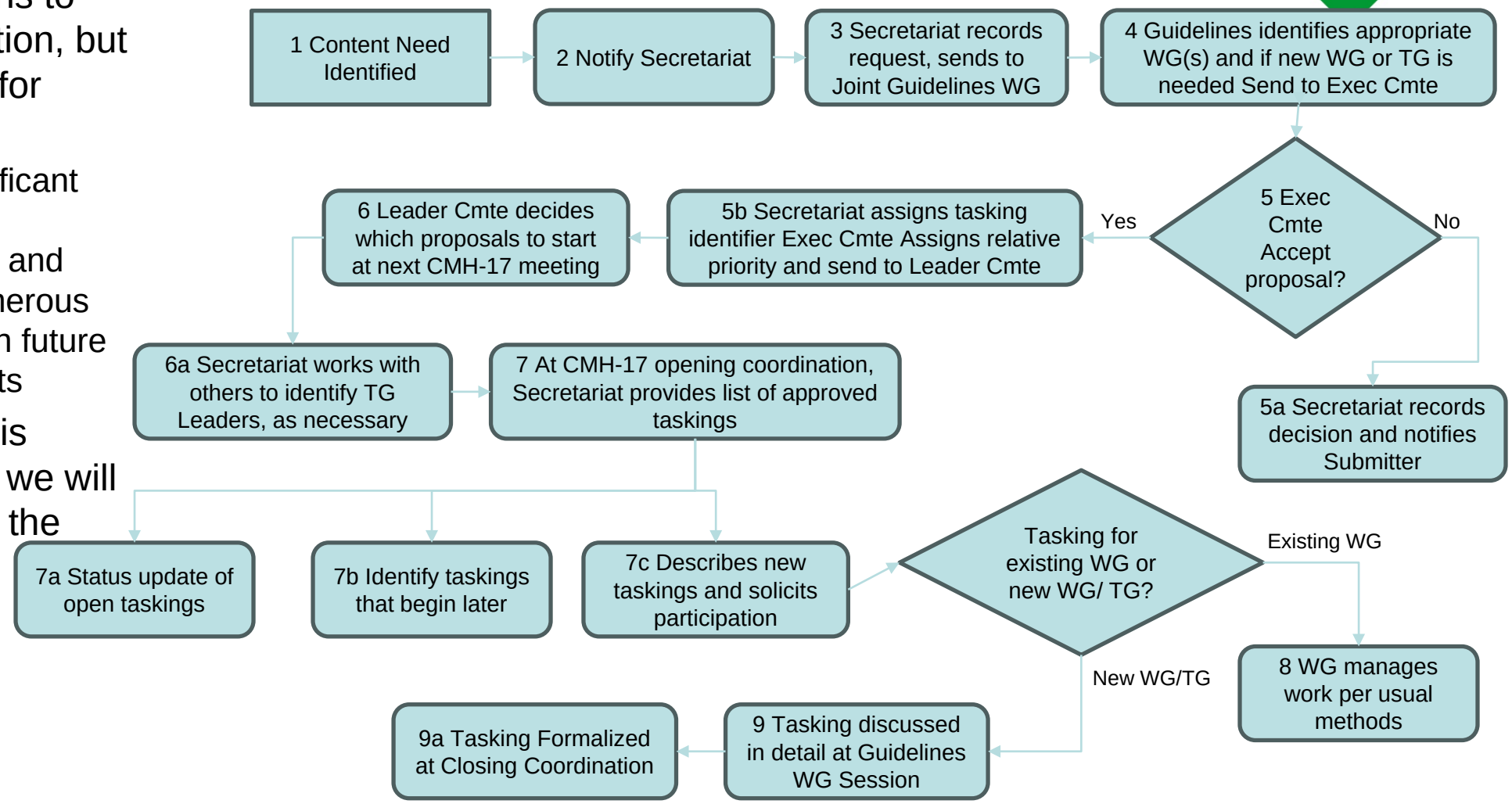
* This chapter could go in multiple categories

** These are both task groups. In the future we should either identify an existing WG or change one or both of the TG into WG

- Volume 3 has chapters with content that is not segregated in the other volumes
  - In some cases, information on these topics is integrated with other chapters, but for the others there is no similar information
  - Is the content applicable to other materials, or can it be generalized?
  - Should these be joint WG?
- Sandwich Ch 12 may align with another topic
- Will other volumes have “special topics” in the future outside of applications?

Content Development Process

- We have many decisions to make about WG formation, but one known WG will be for Joint Guidelines
  - They will have a significant role in the content development process and hopefully contain numerous members interested in future CMH-17 developments
- The proposed process is shown on the right and we will go through the steps in the following slide



Content Development Process

CMH-17
COMPOSITE MATERIALS HANDBOOK

1. Any WG or individual identifies the need for new or revised content or, obsolete content that should be removed or given a caveat
2. Submit proposal to the Secretariat
3. The Secretariat records the proposal and sends to the (Joint) Guidelines WG
4. The Guidelines WG identifies the appropriate WG(s) who owns the content and identifies if a multi-discipline TG or new WG is needed
5. Guidelines brings the proposal to the Exec Committee who decides whether to approve the proposal
    a. If not approved, the Secretary records the decision and notifies the Submitter
    b. If approved, the Exec Committee assigns a relative priority to the task and the Secretariat provides a tasking identifier
6. The Leader Committee decides which proposals will be started at the next semi-annual meeting
    a. The Secretariat will work with the Leader Committee, the Exec Committee, and the Submitter to identify new WG/TG leaders prior to the next semi-annual meeting, as necessary
7. At the semi-annual meeting opening coordination session, the secretariat provides a list of all taskings
    a. Status updates of active taskings
    b. Identify tasks that will begin later (i.e., other approved proposals)
    c. Describe new taskings that will begin now and request participants
8. If the tasking is assigned to a current WG, they will begin work and manage per their usual methods
9. If the tasking is assigned to a new TG or WG, the tasking will be discussed in detail at the Guidelines WG session
    a. The tasking will be formalized at the closing coordination meeting with TG/WG leaders, membership roster, identified sections, and proposed timeline

Future Publication

- Nothing Changes until Volume 3 Rev H, Volume 5 Rev B and Volume 7 Initial Release are published in their current volume formats (not waiting for V6 Rev A)
  - Beginning to track metadata to identify author (for internal records only) and date a section was written (to be added to future publications)
- Vision for future publications:
  - Updates annually or biannually
  - Greater emphasis on digital version and ease of use (that is, right now the “handbook” isn’t necessarily “handy”)
  - Improve CMC and AM access to PMC content that has general applicability
- Some options that have been discussed:
  1. Publishing chapters instead of volumes
     - One option would be to combine content from all material systems together. Each topic (e.g, building block, data submittal requirements, quality control) would have a chapter with a beginning section of information that is common to all material systems, followed by sections that provide material-specific information Could create “volumes” (compendiums) by pulling all information that is generally applicable and appropriate material sections
  2. Keep volumes as-is, except re-organize and divide Volume 3 into Volume 3a and 3b
     - Volume 3a could be for content that is generally applicable information and Volume 3b could be for PMC-specific information
     - Or reorganize to emphasize providing information in the order it would be used in a development program
     - Note: Vol 3 will have to be split for Rev H because it’s too long. Currently planning to split into approximately equal number of pages between two existing chapters

Other Topics

CMH-17
COMPOSITE MATERIALS HANDBOOK

- Revamp yellow page process to simplify and automate balloting procedures and publication
  - Secretariat provided an update
- Consider different membership structure
  - No action in this area right now, until we determine if the merged organization works and what kind of publication we will offer in the future
  - Goals are to reward active members, allow organizational/corporate membership, and increase voting participation
- Investigate becoming an ANSI-certified SDO, or joining an SDO
  - Currently no action in this area

For This Meeting

- Joint Guidelines kick-off (1 hour this afternoon)
  - Further describe future activities
- Separate PMC and AM Guidelines sessions Wednesday
  - PMC Guidelines focusing on post-Rev H activities, identifying taskings (*beginning new task identification process)*
  - AM Guidelines addressing yellow pages and other committee business
- AM and CMC WGs are meeting to continue content development
- PMC WG and TGs are meeting to disposition yellow pages, finalize Rev H content and some future planning
- Sandwich WG is meeting and will identify WG/TG for specific Vol 6 content needs
- Would like to emphasize cross-pollination of knowledge across material systems and identify content that is applicable to more than one material system
  - For example, if you are a member of one M&P WG or have skills in that area, consider attending M&P sessions for the other material systems

Next Actions

CMH-17
COMPOSITE MATERIALS HANDBOOK

- Short Term
  - Finalize V3 Rev H, V5 Rev B, V7 Initial Release
  - PMC to identify post-Rev H taskings in a formal manner and establish any new WG or TG (including for Vol 6 Sandwich)
  - Update website and voting
  - Evaluate effectiveness of merged organization
- Longer Term
  - Propose and decide on new WG/TG structure
  - Propose and decide on new membership structure
  - Propose and decide on new publication methods
  - Investigate becoming or joining an SDO

Volume 6 Rev A publication is also a priority, but not certain where it will fall on this timeline

Email us!

- Please share your thoughts on comments with us.
- You can send them to : info@cmh17.org