ASM International

**Residual Stress Technical Committee (ASM-RSTC)**

**Mike Hill – Committee Chair (Oct 1, 2021 – Sep 30, 2022), mrhill@ucdavis.edu**

**James Pineault – Vice Chair, xrdlab@protoxrd.com**

**Beth Snipes – Secretary, Beth.Snipes@tec-materialstesting.com**

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**Notes for ASM-RSTC Meeting May 18, 2022**

Attendees: TBD – Zoom window screenshots are provided at the bottom

Of the newsletter.

TODAY:

Brief subcommittee reports

Technical Presentation

Dr. Scott Carlson of Lockheed-Martin Aeronautics, “Review of a Cx Hole Residual Stress Determination Method Round Robin and Some Cool Stuff Happening on the F-35 with Laser Peening”.

Action items

Adjourn

Action items for members:

1. Fill in roster information form https://forms.gle/3YwCTEWGz9NtG5nHA
2. Consider advertising the committee when presenting at professional meetings (small or large)  
   **See 1-slide advert for ASM-RSTC in the latest newsletter**  
   Send feedback to James Pineault, [xrdlab@protoxrd.com](mailto:xrdlab@protoxrd.com)

No feedback received to date.

1. Report RS-related society/organization activities to Mike Hill ([mrhill@ucdavis.edu](mailto:mrhill@ucdavis.edu)). RSTC will build a list of other professional organizations we link to (such as specific committees/codes/documents organized under ASTM, ASME, ISO, SAE, SAE/FD&E, ICRS, ECRS, ICSP, etc.)
2. Mike Hill announced the Easi-Stress project in EU. They are looking for participation from diffraction practitioners.
3. SAE FD&E will have their Spring Meeting in June.
4. ASTM E28.13 will have their meeting June 1. Beth Snipes will request time to talk about ASM-RSTC.
5. Report University RS activities to Joe Rasche via email ([joe.rasche@ansys.com](mailto:joe.rasche@ansys.com))
6. Recruit new members, especially developing engineers
   1. Anyone new today? Rajan Bhambroo and Craig Bridges
7. See RSTC Charter on ASM Connect (<https://connect.asminternational.org/communities/community-home?CommunityKey=d4811acc-211c-4e4d-b471-6a5a3645a93d> )
8. Suggest presentation topics for future meetings
   1. Student presenters especially welcome; contact James Pineault ([xrdlab@protoxrd.com](mailto:xrdlab@protoxrd.com))

Summary items

**Notes captured during meeting**

**Standing Agenda for Residual Stress Committee:**

1. Subcommittee reports
   1. Industry Standards (Dale Ball, Chair, dale.l.ball@lmco.com)

AMS RS Standard (Dale Ball): email update says ballot by SAE Committee B imminent

Release of USAF Structures Bulletin: <https://daytonaero.com/usaf-structures-bulletins-library/>

Other standards:

ISO-21432: Non-destructive testing — Standard test method for determining residual stresses by neutron diffraction (revised 2019, original pub 2004)

Cold-worked holes standard

Energy-dispersive XRD standard through Easi-Stress

* 1. Residual Stress Handbook (Dave Furrer, Chair, [david.furrer@prattwhitney.com](mailto:david.furrer@prattwhitney.com))

Division meetings are on-going, developing best practices to finalize division scopes. Moving forward, things are taking form. Friday, 2pm EDT is next subcommittee meeting. Schedule coming together along with project plan.

* 1. Newsletter (co-Chairs:   
     Beth Snipes, [Beth.Snipes@tec-materialstesting.com](mailto:Beth.Snipes@tec-materialstesting.com)   
     Ben Wang, [wang.ben@cummins.com](mailto:wang.ben@cummins.com) )

Send newsletter items to Ben Wang

April newsletter has been published.

New item for newsletter: “Members in the News”. Please contribute. Also, please contribute to Trivia section.

Question from Nihad: where can we find all the newsletters? Answer: newsletters are posted to Connect, but that’s only a partial solution.   
Can we do something like: Link to asm.org/rstc/newsletter\_v1n1.pdf et cetera

Scott Henry will check into possibilities.

* 1. Education and Chapter Outreach (Jeff Bunn, Chair, [bunnjr@ornl.gov](mailto:bunnjr@ornl.gov))

Members: Bunn, Hill, Ben Salah, Snipes, Sicotte, Styger, Furrer, Belassel

**Residual Stress 101** to be given at SEM Annual Meeting, Pittsburgh, June 12, 2022

**Stress Analysis Workshop at DXC 2022** (Tom Watkins, Cev Noyan), 1-5 Aug 2022

**Workshop at AeroMat 2023, Fort Worth, TX (to be planned)**

* 1. Professional Meetings. Conferences, Symposia (Lesley Frame, Chair)

See list in newsletter

Could update newsletter with context for acronyms

SEM, week of June 12, will have residual stress sessions.

ECRS-11, Prague, Sep 9-13, 2024

IMAT meeting in Sept 2022,

ICRS proposal for USA meeting in 2025

Contact Andrew Payzant [payzanta@ornl.gov](mailto:payzanta@ornl.gov) or Mike Prime [prime@lanl.gov](mailto:prime@lanl.gov)

ASM-RSTC is interested to link up with ICRS

* 1. University Outreach (**TBD, Chair**)

Call from Joe Rasche on what academic labs are active in RS work

1. New business (topics and/or activities)

None discussed

1. Technical topic

Dr. Scott Carlson of Lockheed-Martin Aeronautics, “Review of a Cx Hole Residual Stress Determination Method Round Robin and Some Cool Stuff Happening on the F-35 with Laser Peening”.

Slides from these excellent presentations will be sent out by Mike Hill.

1. Committee Logistics
   1. Add a subcommittee?
      1. Articulation with Other Professional Groups  
         Need to discuss at a future meeting

Next meeting will be June 15 chaired by James Pineault.

Screen shot below taken during the ASM-RSTC meeting on May 18, 2022

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Graphical user interface

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A screenshot of a phone

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