

On behalf of **MMT**,

I want to wish you and your company the best for this New Year. We are committed to continuing to support your business through our field testing services that provide accurate and reliable material strength data. As we look forward to this year, we would like to highlight the many advancements we made in 2017.



1 Successful HSD blind tests on 50 pipe joints

Materials included ERWs, DSAW, Flash, and seamless. Comparing MMT's HSD Tester with tensile tests on the same material for all 50 samples:

- Yield strength values within +10% to -15% with greater than 90% confidence
- Conservative yield strength predictions, with no HSD measurement more than 10.5% higher than tensile test
- Ultimate tensile strength values within $\pm 10\%$ with greater than 95% confidence

2 Published performance data and testing procedure standard for HSD (All documents available on website)

- HSD Tester - A brief introduction to our innovative technology
- Precision & Repeatability Metrics - Published data regarding the precision and repeatability of the HSD Tester with respect to tensile strength properties
- MMT Field Procedure - Gain an understanding of what to expect from our on-site services
- HSD Standard Test Method - Draft of a standard test method for Hardness, Strength, and Ductility testing of metallic materials

3 Participated in the Gas Pipeline Advisory Committee (GPAC) meeting organized by PHMSA

- Per comment by Simon Bellemare in June 2017, PHMSA reduces the number of locations to perform NDE strength testing from 5 to 2 per joint
- The GPAC committee voted "YES" for issuing the rules from Section 192.607
- The discussion on MAOP reconfirmation was initiated and will continue to at the next meeting in March 2018
- MMT's main point in the discussion is that starting to generate more field data now will foster the discussion to refine how the new data will help with asset service life extension and integrity management (see page 2 of HSD flyer attached)

4 MMT is actively working with existing customers to schedule testing services throughout the 2018 calendar year

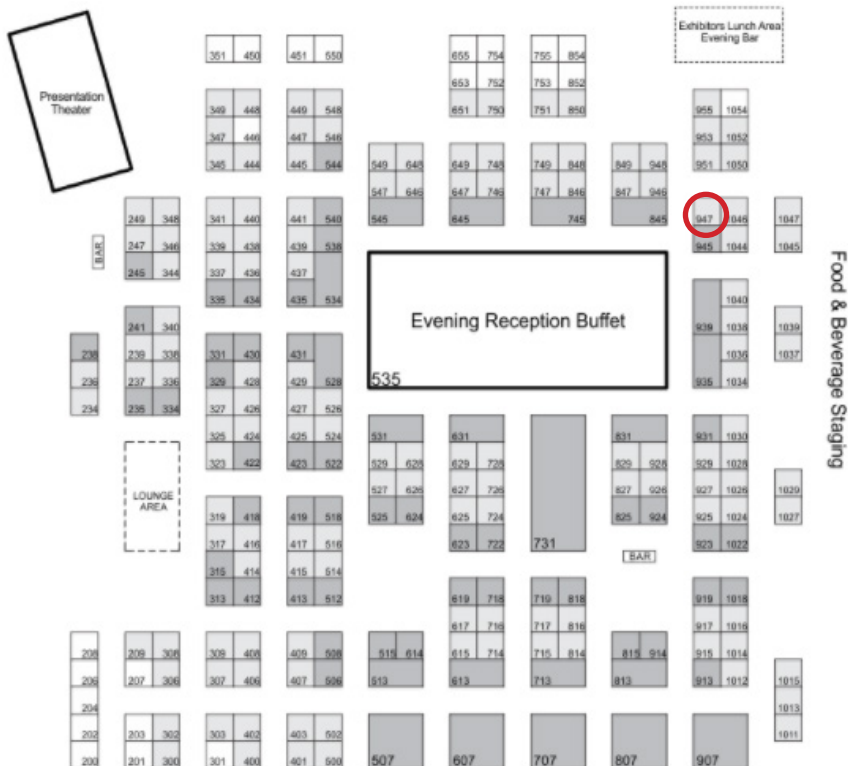
5 MMT just tripled the square footage of its headquarters

- New location in Waltham, MA
- Facility includes full lab for testing, shop for manufacturing, and office space for expanding the size of the team
- With the increased resources, we can handle bigger projects and meet a wider range of testing demands



The 2018 team goal for MMT is to work with our charter customers to determine how the HSD Tester will provide the best impact for cost efficiency and pipeline integrity in the context of service life extension. This includes alternatives to hydrotests for MAOP Reconfirmation and the use of NDE in risk assessment for long seams.


Simon C. Bellemare, Ph.D., P.E.



6 MMT is looking to engage with customers and collaborators through a presentation at the PPIM technical conference

- MMT will present at PPIM and NACE. Abstracts awaiting a final decision include AGA and API
- A collaboration with an operator has led to a joint submission to IPC
- We hope to see you at our booth at PPIM
- Referencing the map to the left, please visit us, booth 947



To request more information or to request a quote please contact us, or visit our Massachusetts office before March 1, 2018.

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