



MERRY NDT TO ALL

and to all a great night!

GHASNT held its annual Casino Night Holiday Party on Wednesday December 12th, 2018 at the South Shore Harbor Resort in League City, TX inside the beautiful Marina Ballroom. The evening kicked off with members being treated to a delicious winter wonderland food buffet, with crab cakes, bacon wrapped shrimp, stuffed mushrooms, prime rib and tortilla cheese pasta, just to name a few dishes. As members were enjoying their meals, raffle numbers were drawn, and more than 46 beautifully wrapped gifts were given out. This is always a crowd favorite! Then members enjoyed the excitement of playing Blackjack, Poker, spinning the roulette wheel and the craps table. As the casino tables closed, members counted their chips, and the evening wrapped up with even more prizes given out to the casino winners which were donated by ALX Industries, AccessRULES,

Team Industrial, Turbo NDT, and OceanScan. The generosity of these companies and continued support to the chapter is always greatly appreciated. Overall, the evening was a huge success with 72 members and guests enjoying the festivities and more than 70 toys collected and donated to the "Toys for Tots" drive.

Arrangements committee members Rhonda Grisham and Wendy Post did a phenomenal job pulling the party together. They worked countless hours getting and wrapping gifts, designing table centerpieces, and making numerous phone calls to collect donation prizes. Lastly, special thanks to Zac Sebren, Zeki Gokce, and John Huffman for working the welcome table, then loading and delivering the donated toys.

See Event Photos on Page 4

WHAT'S INSIDE

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GHASNT@ASNT
Fall Conference

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The Art of Intentionally Flawed Specimens and The Science of NDT Performance Demonstration

by Ricky L. Morgan at FlawTech America

Introduction

The concept of making flawed specimens seems simple at first thought. Anyone can make a bad weld or product. This is true in concept but making a flawed specimen with accurate dimensions with no distractors other than the intended flaws to gauge an NDT Technician's performance or ability to properly locate, size and dispatch said specimen to a specific code, procedure or industry standard is another thing all together.

In the Beginning

Since the beginning of NDT, we have been looking for anomalies, discrepancies, inconsistencies, irregularities, discontinuities that have or are approaching being characterized or categorized as a flaw or defect that affects the serviceability of a product or structure. Preferably, we find them before an actual failure.

We commonly use blocks or product segments with notches, side drilled holes (SDH), flat bottom holes (FBH) and other discontinuity simulations for calibration to establish a standard response or detectability size. In most training schools we typically use specimens with discontinuities similar to those found in new fabrication or manufacturing e.g. lack of fusion, slag, lack of penetration and maybe laminations or non-bonded areas. These are all very important, because we don't want any new fabrications or manufactured products entering their service life defective. Training and qualification of NDT Technicians for in-service or post event environment is completely different and somewhat forensic in nature requiring a different body of knowledge. It requires specialized training and additional experience in the failure mechanisms of the particular asset.

Back in 1982 Dr. George Pherigo, after many years as a Welding and NDT Instructor at Hutchinson Community College in Minnesota (Now Ridgewater College) and tenure with EPRI developing the Performance Demonstration Inspection Program, became fully aware of the importance of realistic flaw simulation and the challenges associated with putting intentional flaws with repeatable and accurate results for both fabrication/manufacturing and in-service type flaws. Thus, the beginning of FlawTech.

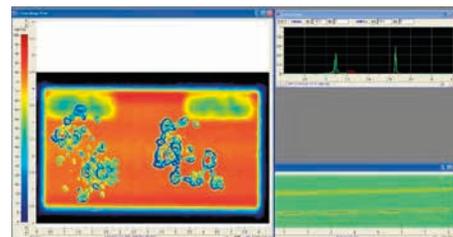
Focus

Over the years training welders and machinists to become flaw technicians is no small feat. It takes approximately two years of experience building flaws depending on the individual welder's experience and skill set to become a true flaw technician in the art of intentionally flawed specimens. It is very important to maintain a key group of qualified individuals.

One of the most common questions we receive is, "How do you make your flaws?" Well, to be totally honest, many of those techniques are proprietary and have been developed over our 36+ years history. Many of the welding flaws like porosity, slag, lack of fusion, incomplete penetration, undercut and tungsten inclusions are made just like they are in normal production. Nothing really to fancy except we place them incredibly accurate for both location and size. Cracks are little different and we have developed several different techniques and types to simulate specific types of cracks. We produce most of our cracking using mechanical fatigue, thermal fatigue or hybrid type method. For some of the industry driven crack specimens like HIC (Hydrogen Induced Cracking or SCC (Stress Corrosion Cracking – Intergranular or Trans-granular) we use techniques we call "CRAZE Cracking" since we can't exactly model the environment in an effective timely manner that is required to develop the two previously mentioned cracking modes. We are very successful in developing flaws that model the NDT responses for different NDT Methods used to evaluate assets for these flaws though. We have also developed what we call "Accelerated Corrosion" which produces more realistic pitting, corrosion and erosion. We can even age the exterior or interior of a tube or pipe to simulate it having been in service. What is most extraordinary is the accuracy we can replicate these flaws. Virtually all flaws are mechanically measured and verified so regardless of what NDT Method being used we know the actual size of the flaw manufactured. We call this the "Flaw Truth". Manufactured flaws over the years have been sliced and diced confirming the manufacturing tolerances are highly accurate.



Example of Accelerated corrosion



Phased Array Screen Shot of another example

(continued on page 3)

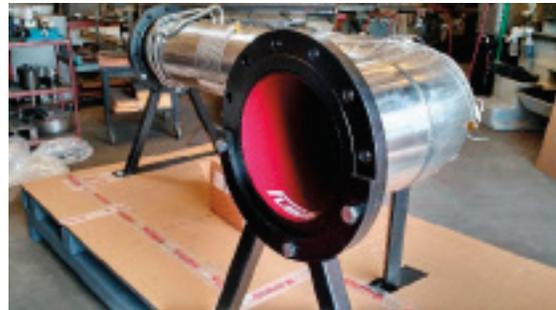


We have developed many stock specimens and code specific kits over the years. We rely heavily on customer input and feedback when designing new specimens and kits. As many know our industry is vast and virtually anything that deals with metals has a critical element that must be evaluated with some method of NDT and done proficiently to avoid a failure. Some examples of those code driven kits are found below.

This first one should be particularly interesting to you Houston Section readers. I know quite a few you already have these kits. The development of API Kits was the result of a presentation at the 2000 ASNT Research Symposium in Denver, where a representative from API gave a presentation concerning the beginning of the QUTE (Qualified Ultrasonic Testing Examiner Program) due to a research study and its findings he presented. When going into any type of timed performance-based exam such as this, it only makes sense to enhance your probability of passing requires practice using similar type weld configurations and flaw types.

The development of AWS D1.8 Seismic kits to comply with D1.8 Supplemental UT Technician qualification. The AWS D1.8 Structural Welding Code – Seismic Supplement first published in 2005 was the result of a several FEMA studies that were initiated after the 1994 Northridge Earthquake. The results affected Design, Welding and NDT. For UT it was the SAC/BD-00/06, Round Robin Testing of Ultrasonic Testing Technicians, it determined that a significant number of fabrication type flaws were inconsistently identified or missed by Ultrasonic Testing Inspectors. UT Inspectors are required to evaluate a minimum of 20 flaws per Appendix E in various common weld joint configuration found in structural steel fabrication and are graded on Indication Rating, Flaw Depth and Flaw Length within certain tolerances on their submitted report.

Similar to how we approach developing kits, custom flawed samples are an even more collaborative process. We rely heavily on customer input and feedback, encouraging our customer to be very involved with the process and invite them to our location to verify progress and final inspection prior to shipping. In order to continue to lead the way in the art of flawed specimen, we are constantly evolving and developing better methods of flaw manufacturing to meet our industry's needs.



Examples of Custom Samples (Top Photo) Nuclear Vessel wall with Nozzle (Bottom Photo) Display Piece for Demonstration of various NDT Method for a Product Manufacturer

Conclusion

Fabricated or manufactured flaw specimens are an effective, reasonable cost alternative to real world flaw specimens which can be very expensive, limited in numbers and difficult to ascertain the true size of the flaws without destroying the sample. Waiting for demolition or deactivation of assets is not a timely option in order to train, qualify and validate qualification of NDT practitioners required to service our industry.



D1.8 Seismic Kit

API Kit



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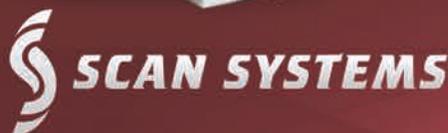


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ASNT Conference Makes Return Trip to Houston

What great memories we have of ASNT’s Annual Conference held at the George R. Brown Convention Center in October 2018! With this big NDT week returning to Houston again after 8 years, our Greater Houston host committee and volunteers put in countless hours to plan and put on many special events and activities to further celebrate the largest nondestructive testing conference in the world... all with the downhome Texas hospitality that our local section is known for.

In addition to the fully-packed conference agenda and exhibition prepared by ASNT National, our section made sure there was something for everyone to enjoy and get involved in for both professional NDT-ers and companions alike... Houston style!

Volunteers and members participated in ASNT’s Day of Stem, the Section Leaders networking event, a round of pre-conference golf at Memorial Park, the multi-day companion program including a Discover Houston Tour and lunch at the aquarium and even a Halloween costume breakfast! A very popular raffle, featuring a red, white and blue “Shooting Star” quilt crafted by members of the Quilt Guild of Greater Houston, raised \$1,190 for the GHASNT scholarship fund. The main event of the week was certainly our Houston section’s

sold out OktoberFest party at St. Arnold’s Brewery, the oldest craft brewery in the state of Texas. What a night! In the enchanting environment of a traditional beer hall, with long communal tables and lively polka music, over 300 guests sampled selections from St. Arnold’s amazing beer menu and experienced the flavors of authentic German fare served buffet style. Even the most serious of visitors got in the on the fun with the many festive props for all to wear, photo booth and the camaraderie of long-time NDT and new acquaintances. For those intrigued by the technicalities of the beer making process, factory tours were also offered. With safety always first in our business, luxury coach buses brought guests to and from the event...oh, and did we mention those orange cowboy hats that guests wore on the ride? #GREATIME #GREATERHOUSTON #GHASNT

Thank you Sponsors and Volunteers!

As always, it was through the great generosity of GHASNT’s event sponsors and volunteers that we were able to really shine. This included: QSA Global, Hocker Inc., Olympus, AIP, ALX Industries, NDT Seals, MFE Enterprises, Hellier, Turbo NDT, PH Tool, Test Equipment Distributors (TED), Oceanscan, Western Instruments, Parker, and BMX Integrity.





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THINKING BIG IN OUR SMALL WORLD

Date	Event
February 13, 2019	GHASNT Monthly Meeting & Presentation: XRF and Radiography on Fine Art Republic Grill (Deer Park, TX)
March 20, 2019	Vendors Night South Shore Harbour Resort (League City, TX)
March 22, 2019	Golf Outing Timber Creek Golf Club (Friendswood, TX)
April 10, 2019	GHASNT Monthly Meeting & Presentation: Reasonable Expectations in Radiographic Imaging Republic Grill (Deer Park, TX)
May 8, 2019	GHASNT Monthly Meeting & Annual Business Meeting Awards / New Officers / Panel Discussion Republic Grill (Deer Park, TX)

FOR MORE INFO, PLEASE VISIT: WWW.ASNTHOUSTON.COM/EVENTS

DON'T MISS THESE!

Upcoming GHASNT Events



MARCH 20TH Vendors Night
South Shore Harbor Resort (League City, TX)



MARCH 22ND Golf Outing
Timber Creek Golf Club (Friendswood, TX)



MONTHLY MEETINGS Republic Grill
(Deer Park, TX)



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Newsletters & Bulletins	Stacy Cotie	Acuren	832-327-1900	scotie@acuren.com
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President's Points	Roger Jordan	Turbo Non-Destructive Testing	713-263-4303	roger@turbondt.com
Program	Bonnie Blanchard		281-678-5722	blanchard25@comcast.net
Scholarships	John Huffman	Oceaneering	713-443-7841	jruffman@oceaneering.com
Sponsorships	Jerry Fulin	Microalloying International	346-234-9685	jf65027jf@yahoo.com
Technician of the Year	Zac Sebren	NDT Seals, Inc.	713-222-7584	zac@ndtseals.com
Vendors Night	Roger Jordan	Turbo Non-Destructive Testing	713-263-4303	roger@turbondt.com
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