Please welcome Noah Fredette from Comet Technologies for May 17th, 2018.

Noah Fredette is the Senior Sales and Business Development Manager for Comet Technologies for North America.

Presentation: X-ray Technology and Advancements in X-ray Generation.

Meeting May 17, 2018
Location: Rodehouse Restaurant, 2425 S 44th St, Phoenix, AZ 85034.
Social Hour - 5:00 pm
Dinner – 6:00 pm
Presentation – 6:30 pm
Buffet Dinner: $5.00

This month’s meeting sponsor is Comet Technologies.

Thank you!

Companies and corporations, please consider sponsoring the monthly meetings with an additional donation to help us continue to provide low to no-cost meals for attendees.

Please find the time to reach out to our sponsors with business opportunities when able, or refer others to use their services. We’d like for all of our sponsors to get an excellent return on their advertising!
Vendor’s Night has been moved to January 2019 to allow for better scheduling and interest.

June 21st, 2018

TBD.

Interested in Presenting at a Section Meeting?

Contact Dawn Lynn and provide us with a brief description of your presentation, and your contact information.

We currently have need of a speaker for June!
January 17th, 2019 will be Vendor’s Night!

Come show off your products and services to the rest of the community! This is an excellent opportunity to network with companies across Arizona in multiple industries from Aerospace, Military & Defense, Oil & Gas, Energy, Semi-Conductor and more!

Space is limited so please rsvp your booth by September 1st, 2018 (dlynn@uct.com).

Booth: $150.00.

If your company is able to donate raffle items as well, booth cost will be $120.00.

If our company has sponsored a dinner during 2018, booth cost will be $50.00.

Vendor’s Night has been moved to better accommodate our community members.

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Job Opportunities

Tom Leonard at Turbo Technologies LLC in Phoenix, Arizona, is looking for a Level 2 MT/PT.

If you have a job opportunity you would like to have shared with the ASNT community, please contact Dawn Lynn to have it added.
Thank you John Stewart for being our April 2018 Speaker! The numbers prove that we need more NDT techs!

The **American Advanced Technical Academy (AATA)** is a Los Angeles-based 501c3 nonprofit. AATA’s mission is to bring high quality basic and advanced NDT training to the industry at a price that is affordable; so everyone especially veterans, women, minorities and disenfranchised individuals can take advantage of the great professional opportunities offered in Non-Destructive Testing (NDT). AATA students receive Level I and Level II training in Radiography, Magnetic Particle, Penetrant, Ultrasonic Testing, UT Phased Array and Visual Testing, in addition to training in Computed Radiography and Radiation Safety with a foundation in NDT Math.

The AATA was founded when John Stewart decided to dedicate himself full-time to helping economically disadvantage and veterans struggling with poor job prospects secure fulfilling careers in his field. Stewart, who over the course of his twenty-year career in NDT has trained technicians for companies such as SpaceX, Goodrich Aerospace and Northrop Grumman, believed that by addressing inadequate STEM opportunities, one could empower youth and returning military veterans to fill the shortage of NDT professionals in many of California’s booming industries. AATA would like to thank these companies for their support, in-kind donations, and for continuing to partner with us by hiring our students.

AATA also offers Online Training for those who cannot travel.
The **American Society for Quality (ASQ)** is a global community of people dedicated to quality who share the ideas and tools that make our world work better. With individual and organization members around the world, **ASQ** has the reputation and reach to bring together the diverse quality champions who are transforming the world’s corporations, organizations and communities to meet tomorrow’s critical challenges.

- **ASQ** provides the quality community with training, professional certifications, and knowledge.
- Headquartered in Milwaukee, Wisconsin, USA, **ASQ** champions people passionate about quality in more than 140 countries.
- Meetings are held the 2nd Thursday of each month at the Edward Jones Training Facility: 8333 South River Parkway, Tempe, AZ 85284.
- Cost: All meetings are free and open to the public.

ASNT Arizona Section Vice-Chair, Dawn Lynn, attended their May 10, 2018 program. ASQ was pleased to have us there, and a joint meeting has been discussed to bring the two organizations together.

Speaker Dr. William LaFollette presented on the topic of Lean Six Sigma in Service and Healthcare. Dr. LaFollette was a very engaging and passionate speaker on the topic of blending the two approaches.

Please be sure to visit **ASQ** at [https://asqphoenix.org/](https://asqphoenix.org/) to learn more.

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**2018 Section Leaders Conference**

The 2018 Section Leaders Conference (SLC) will take place in Columbus, OH June 22 & 23, 2018. SLC is a two-day training meeting for current and future section leaders as well as regional directors. Attendees will examine a variety of topics related to section management and leadership development.

Arizona Section leadership will be in attendance.
NEWSLETTER
New Developments in Bond Testing

NDT Custom Programming & Applications Engineering, LLC
2/27/2018

About Us
NDT Custom Programming & Applications Engineering, LLC provides custom engineering solutions and NDT specialty software designed to cater to industrial, service, research and academia applications.

Product Customization
Our software products are designed to accommodate high degree of customization. We are able to address a wide range of customer’s needs and requirements. The software and applications are designed for easy use by NDT technicians, engineers, researchers, and academia.

The “unexplainable” very strong reflections from diffusion bond interfaces, which are not necessarily associated with unacceptable bond quality are explained by the sound amplification resulted from negative acoustic impedance of bond interface.

- Aerospace
- Electronics/Semiconductors
- Electronics Consumables
- Automotive
- Power Generation
- Foundries & General NDT

Technology
Our software is designed by using mathematical and DSP methods, which are applied to data interpretation and data analysis. The software can be coupled with data acquisition system of any portable or large industrial equipment furnished with digital data output.

Industries Served:
Testing of Diffusion Bonds becomes easier

**Acoustic impedance analysis of bonded interfaces**

You can easily distinguish between “questionable”, or weak, and good diffusion bonds by performing acoustic impedance analysis of bonded interfaces by using methodology and software developed by NDT Custom Programming and Applications Engineering, LLC.

This application uses acoustic circuit-style analysis for evaluation of acoustic impedances of bonded interfaces. The analysis uses known ultrasonic responses from all test body interfaces including front, bond(s), and back wall boundaries collected by pulse-echo technique. Measured echo amplitudes and phases are incorporated into a computational routine describing propagation of ultrasound through entire test body. The routine is built into the software, which calculates “effective” acoustic impedances of all components of acoustic circuit including bond interface(s). Application reveals very strong correlation between negative acoustic impedance of bonds with some very strong, but not necessarily associated with weak bond, ultrasonic response.

The application provides a clear distinction between good and bonds with similarly strong bond interface reflections derived from assessing bond acoustic impedances.

For more information please visit [www.ndtcustomsoft.net](http://www.ndtcustomsoft.net) or contact us by phone 614-779-9482 / e-mail info@ndtcustomsoft.net

NDT Custom Programming & Applications Engineering, LLC

Alex Leybovich

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NDT Training, Scheduled courses for January – December 2018

Greatly Expanded Schedule of Classes for 2018
We will be Scheduling WEEKEND TRAINING COURSE please contact Cathy for dates

NDT Level I and II Courses

Magnetic Particle Level I/II SNT-TC-1A
(24 hours) $845
January 22-24, March 5-7,
April 9-11, April 30-May 2, July 15-18, August 6-8,
September 10-12, December 3-5

Penetrant Level I/II SNT-TC-1A
(18 hours) $695
January 25-28, March 8-9,
April 12-13, May 3-4, July 19-20, August 9-10,
September 13-14, December 6-7

Ultrasonic Testing Level I
(40 hours) $1295
January 8-12, March 12-16,
April 16-20, May 7-11, July 23-27, August 13-17,
September 17-21, December 10-14

Ultrasonic Testing Level II
(40 hours) $1295
January 15-19, March 19-23, April 23-27,
May 14-18, July 30-August 3, August 20-24,
September 24-28, December 17-21,

Radiation Safety (IRRP Preparation)
(40 hours) $1295 (Approved by State of CA)
January 29-February 2, June 4-8, October 1-5

Radiography Testing Level I
(40 hours) $1295
February 5-9, June 11-15, October 8-12

Radiography Testing Level II
(40 hours) $1295
February 12-16, June 18-22, October 15-19

Film Interpretation (40 hours) $1295
TBA

Eddy Current Testing Level I (40 hours) $1295
March 26-30, October 22-26

Eddy Current Testing Level II (40 hours) $1295
April 2-6, October 29-November 2

Visual Testing Level II (24 hours) $845
January 3-5

Phased Array Training
These are Level I and II UT PA courses to meet the SNT-TC-1A (2011) certification requirements

Introduction to Phased Array, (16 hours) $1195
February 19-20, November 5-6

Ultrasonic Phased Array Level I (SNT-TC-1A) (40 hours)
$1995
February 19-23, November 5-9

Ultrasonic Phased Array Level II (SNT-TC-1A) (40 hours)
$1995
February 26-March 2, November 12-16

Ultrasonic Phased Array Composite Inspection
New for 2018 (40 hours) $1995
September 4-7

Back for 2018, Scheduled.
ASNT NDT Level III Examination,
Refresher Courses

Basic Level III – Includes textbook package
worth over $300 (40 hours) $1395
May 21-25

Eddy Current Level III (24 hours) $995
August 27-31

Visual Testing Level III (16 hours) $795
November 27-28

Magnetic Particle Level III (16 hours) $795
September 4-5

Penetrant Level III (15 hours) $795
September 6-7

Radiography Level III (24 hours) $995
July 9-11

Ultrasonic Level III (40 hours) $1395
June 25-29

Additional “Ad Hoc” NDT Training Courses
Please call for dates for the below courses

Magnetic Particle Level I NAS 410 (32 hours) $1195

Penetrant Testing Level II NAS 410 (32 hours) $1195

Ultrasonic Thickness Testing (40 hours) $1295

Digital Radiography Testing (40 hours) $1995

Eddy Current Array Aerospace (40 Hours) $1995

Back for 2018
CWI Examination Preparation Course (40 hours) $1595
Note: This will be scheduled over 4 (10 Hour) Saturdays.

Qualification Examinations prepared, and administered, procedures written, level III outside agency services and contracts available.

Any of our courses can also be held at your facility just for your staff. Call for details

OUR POLICY IS NOT TO CANCEL COURSES IF YOU ENROLL & PAY 2 WEEKS IN ADVANCE
For questions or to enroll contact us at www.testndt.com, email ndttrain@aol.com, Ph (714) 255-1500
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