



ASNT
SAN DIEGO
SECTION

Between the Cracks

San Diego Section
American Society for Non-Destructive Testing, Inc.

NEWSLETTER - Vol. 9, Issue 2 September 2019

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San Diego Section
of the American Society for
Non-Destructive Testing, Inc.
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Website:
www.sd-asnt.org

Mr. Randy Jones is the Speaker for October 1st, 2019

Our Speaker Mr. Randy Jones is the Western Regional Manager Engineer and ASNT Level III for Baker Hughes, a GE company. Mr. Jones attended the University of California, San Diego, DeVry Institute of Technology – BSEE and Orange Coast College. Mr. Jones has thirty-six years working in NDT in engineering, inspection, and sales. This knowledge has been acquired while working in the following industries: Aerospace, Utilities, Petrochemical, Pulp/Paper, mining and general industrial. In 1982, there were very few companies hiring electronics engineers with very little, or no experience. After numerous interviews and the subsequent letters of rejection, the Garrett Turbine Engine Company finally hired Randy. While at Garrett, he performed research and development on automated systems for inspection of new engine components. In 1985, Krautkramer hired Randy as a Technical Sales Engineer to sell ultrasonic instruments. With the fall of the Iron Curtain that resulted in severe cutbacks in the defense and aerospace markets it was time for a change. In 1991, Mobile Inspection employed Randy at the San Onofre Nuclear Generating Station to support their erosion/corrosion program followed by the large steam turbine project. In 1996, Randy returned to selling Krautkramer instruments with a greater knowledge of how to support his customers. Inspection Technologies, Inc. became the manufacturers' representative for Krautkramer in 2001. Randy joined the cast at ITI to complete the show. Last February, Mr. Jones accepted an offer from GE to cover their portable UT and ET instrumentation and applications.

Topic Title: "Corrosion Is Where You Find It".

Abstract: Have you ever wondered how ultrasonic techniques reveal corrosion in steel? How is it detected and once detected what should I do next? Aviation and Nuclear applications will be discussed for additional knowledge in corrosion. Come see this presentation and you will probably learn something.

Meeting Details

Tuesday, October 1st, 2019

Social time 5:00-6:00 PM

Dinner 6:00-7:00 PM

Presentation begins 7:00PM in the "Lord Jim Room" of the Best Western Seven Seas' Restaurant.

BOD Meeting 8:00-8:45PM

411 Hotel Circle S, San Diego, 92108

Meals to include: Green Salad, rolls served in baskets, **Dessert**, Coffee, Decaf, Hot or Iced Tea.

The meal choices for the

October 1st meeting are:

Pork Chop w/ Mashed Potatoes and vegetables or **California Chicken** w/red potato and vegetables should you have special dietary need **Vegetarian** or **Vegetarian Plate** is available on request prior to meeting date.

Please RSVP by the end of business September 27th, 2019, the Friday preceding the meeting with your intent to attend and meal choice.

On the email below:

sd-asnt@cox.net

www.bw7seas.com

Meeting Attendance at presentation only is no cost

Meeting Dinner Cost:

San Diego Section

ASNT Student Member,

Military, Lifetime and Retired Members: \$10.00

ASNT Members and Guests: \$25.00

Credit Cards accepted with a Processing Fee.

Year End Cash Raffle \$250.00

will be drawn at the **May 5th, 2020 Meeting**. When you purchase a dinner you will receive a raffle ticket. The more meetings you attend the more possible tickets you will have to be entered into the drawing.

You must be present at the MAY 5th, 2020 MEETING to win.



Between the Cracks

Outgoing Chairman's Message

Dear Members,



It has been my pleasure to serve as your Chairman for this past year of 2018-2017. I would like to take this time to thank those who served with me on the board of directors for volunteering your time to keep the San Diego section running smooth. Your efforts are evident by the fact that we continue to maintain our status of Gold in the President's Awards Points Program.

The past year our section has continued to operate at a high level by organizing monthly technical meetings with engaging speakers and interesting topics and by offering NDT training to the community, with two courses completed this year in Visual and Liquid Penetrant Testing.

The 2019-2020 board of directors with leadership from our new Chairman, Michael Diaz, have stepped into their new roles with commitment and are well into organizing next year's meeting calendar. We are very pleased with the addition of two directors at large, Rachel Gilmore and Cody Engstrand, whose contributions as future leaders of the section are much anticipated.

In closing, I would like to encourage those of you who are reading this to get more involved in the San Diego section of ASNT and attend some of our meetings. Speaking from the experience of my involvement with ASNT, you will find that your career in NDT is filled with more possibilities than you initially realize and that in networking with your peers you will meet lifelong friends.

Sincerely,

Ramon Thomson

Past Chairman of the San Diego Section –ASNT

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Randy Jones

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2019-2020 Technical / Administrative Program

San Diego Section of the American Society for NDT, Inc.

2019:

September 3rd: Albert Liang, "3D Ultrasonic Imaging of Structures Using SAFT and Wave Compounding with Application to Rail".

October 1st: Randy Jones, "Corrosion Is Where You Find It".

November 5th: Flynn Spears, "Laser Shearography-An Out of Plane Experience"

November 18th—21st, 2019 ASNT Annual Conference 2019 - Westgate Las Vegas Resort and Casino / Las Vegas, Nevada

December 3rd: (Speaker tba) -Christmas Event-Spouse / Companion / Guest night: All spouses (significant others) will have dinner provided by the section. Each person in attendance to bring a wrapped white elephant gift (\$10.00 - \$15.00)

2020:

January 7th: (Dark-No Meeting)

February 4th: "Past Chairman's Night", David Mitchell

March 3rd: Michael Mc Gloin

March 23rd - 26th ASNT 29th Research Symposium 2020.

April 7th: Mark Bell

May 5th: "Annual Science Fair Awards" (NDT-related projects).

June (TBA) : Michael Diaz, Change of Gavel

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2019 - 2020 NDT Educational Opportunities

We have posted a list of potential training courses for the 2019-2020 year (August through June).

Please contact **Education Chair - Gary Bass** with your requests, which he will attempt to accommodate if we obtain sufficient volunteer instructors for **Saturday** lectures. Please note instructors are not paid; however, they get recertification points if they hold ASNT/ACCP Level III.

Contact: Education Chairman Gary Bass

Email - gbchulavista@AOL.com

Phone - 619-794-6118 mobile

Chairman Michael Diaz

Email - mike.diaz05@gmail.com

Phone 619-890-4134 mobile

BOD - sd-asnt@cox.net BOD contact # 619-444-2319

To promote the general advancement of the [NDT] industry;

- ◆ To educate the public in the area of nondestructive testing;
- ◆ To provide a forum for exchange of [NDT] technical information;
- ◆ To facilitate training, education and research in the [NDT] field;
- ◆ To engage in any and all lawful activities incidental to the foregoing purposes except as restricted herein.

Level I & Level II courses satisfy the requirements of SNT-TC-1A/NAS-410. **Non-member fees** (which includes a one-year ASNT membership). **24, 32, and 40-hour courses:** held **Saturdays, 8:00 to 5:00** unless facility or instructor availability are different.

- ◆ **Visual/Dimensional Level I / Level II** (24hrs)
- ◆ **VT** (24hrs) **Members:** \$425 **Non-member:** \$500
- ◆ **Liquid Penetrant Level I / II** (32 hrs)
- ◆ **PT - I / II** (32 hrs) **Members:** \$750 **Non-member:** \$825
- ◆ **Magnetic Particle Level I / II** (32 hrs)
- ◆ **MT - I / II** (32 hrs) **Members:** \$750 **Non-member:** \$825
- ◆ **Ultrasonic Level I** (40 hrs)
- ◆ **UT - I** (40hrs) **Members:** \$600 **Non-member:** \$675
- ◆ **Ultrasonic Level II** (40 hrs)
- ◆ **UT - II** (40hrs) **Members:** \$600 **Non-member:** \$675
- ◆ **Radiography Level I** (40 hrs)
- ◆ **RT - I** (40hrs) **Members:** \$600 **Non-member:** \$675
- ◆ **Radiography Level II** (40 hrs)
- ◆ **RT - II** (40hrs) **Members:** \$600 **Non-member:** \$675

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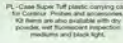
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P-1000 - Portable full plastic carrying case for Control Probe and accessories. All items are also available with the optional, new Remote Inspection Probe and Hand Light.



The Parker CA-1000-OR portable magnetic particle inspection unit is a high speed AC-MPDI for magnetic particle inspection. Control cable is military, variable from feet to meters, and is subjected to a new light LCD display.



B210 - Remote with "AC" Hand Light items are available with the Control and Remote Inspection modules including hand light and other carrying case.



The B200-MR Control Probe is a rugged high performance instrument for magnetic particle inspection. This unit provides a strong AC field and includes Parker's original handle leg design that allows the field to be "focused" in a precise area of inspection.



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CA-1000 - AC-MPDI Control Probe available in various AC forms. May be ordered with the MAG View Light at extra cost.

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September Meeting Report

September 03, 2019 the San Diego Section hosted the 1st Section Technical Meeting of the 2019 – 2020 year. The meeting was held at the Seven Seas Lodge, 411 Hotel Circle South, San Diego, CA with 24 members and guests in attendance.



The speaker for the evening was Mr. Albert Liang. The topic of his presentation was "3D Ultrasonic Imaging of Structures Using SAFT and Wave Compounding with Application to Rail Inspection". Albert is currently pursuing his Ph.D. in the Department of

Structural Engineering at University of California San Diego under the guidance of Professor Francesco Lanza di Scalea, who was also in attendance along with several of his students.

UT imaging is a powerful technique for quantitative inspection yielding size and orientation of the defect with good accuracy. Albert structured his presentation into two parts: Theory and Operation and Applications to Rail Flaw Inspection. Under the former he explained the Synthetic Aperture Focusing Technique (SAFT) for a single emitter and multiple receivers using full matrix capture. A considerable amount of data processing is involved, which he explained. He limited himself to the use of just one equation. He showed how this technique provides results superior to those of a phased array. Under Applications, he discussed several examples of inspection of defects in railroad rails, including hydrogen embrittlement and load and fatigue-induced cracks. The information provided by the images was impressive with good resolution and clear orientation. He gave comparisons with phased array performance, which was inferior. The presentation concluded with a lively Q/A session and a great round of applause.

The Section thanked Mr. Liang for his talk and presented him with a Certificate of Appreciation and Speaker Gift.

The meeting concluded with raffles and the recognition of visiting vendors representing David Waitt from Fuji Film, Phil Fetto and Jason LaFarve from BASF Chemetall, Gabriel Reyes from Kodak and the Matthew Kaparic from Advanced Test Equipment Corp.

Monthly Raffle prizes were sponsored by San Diego Section, Larry Olsen, Northrop Grumman, David Waitt, Fuji Film, Phil Fetto, BASF Chemetall, and Gabriel Reyes, Kodak.

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Between the Cracks

Call for Awards Nominations to the Board

The Section is looking for your nomination(s) for individuals who may meet any of the following:

Lou DiValerio Technician of the Year Award

The *Lou DiValerio Technician of the Year Award* acknowledges those ASNT members who are deserving technicians, to encourage their continued participation in the Society. Nominees for the award must hold a position of employment that corresponds to general guidelines similar to those described by Recommended Practice No. SNT-TC-1A for defining the primary duties and responsibilities of Level I and Level II technicians.

Fellow of ASNT

A *Fellow of ASNT* is an individual member of the Society who has 15 years NDT professional experience; 10 years ASNT membership and has supported the Society through contributions and participation at the local and/or national level. A Fellow must have demonstrated outstanding professional distinction, and must have made continued significant contributions to the advancement of NDT in areas such as management, engineering, science, education, administration or planning.

Mentoring Award

The *Award for Outstanding Mentor* was established to recognize those people in the Society working to encourage others to reach goals they may have otherwise not sought, and to offer the rest of the membership an example of what they could be accomplishing by acting as mentors.

Award for the Advancement of Active Military and Veterans in NDT

The *Award for the Advancement of Active Military and Veterans in NDT* recognizes individuals or organizations who encourages Active Military and Veterans to enter and thrive in the field of NDT, either through creation and/or implementation of programs that provide educational or career advancement opportunities in NDT that may not otherwise be available to Active Military and Veterans or through leading by example of how Active Military and Veterans can not only have a career in NDT but also contribute greatly to NDT, ASNT, and to creating a safer world.

Award for the Advancement of Women in NDT

The *Award for the Advancement of Women in NDT* recognizes individuals or organizations who encourage women to enter and thrive in the field of NDT, either through creation and/or implementation of programs that provide educational and/or career advancement opportunities in NDT that may not otherwise be available to women or through leading by example of how women can not only have a career in NDT but also contribute greatly to NDT, ASNT, and to creating a safer world.

Contact the Awards Committee Chair: Larry Olsen or any San Diego Section BOD member for further information on how to nominate any individual. Nominations must be sent to ASNT Headquarters and **postmarked by 1 February 2020**

Please note: All nominees must be sponsored by an ASNT Section, ASNT Council or ASNT National Committee. ASNT's goal is to recognize the individual member who has taken the NDT/NDE career path and is dedicated to making the world a safer place. Please help to encourage our young ASNT members by nominating someone!



Richard Ridenour
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Peter Pelayo

Mgr. Quality Assurance
ASNT Level 3



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NDT Training, Scheduled courses for January – December 2019

Greatly Expanded Schedule of Classes for 2019

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
February 4-6, April 1-3, June 3-5, August 5-7,
October 7-9, December 2-4

Penetrant Level I/II SNT-TC-1A
(16 hours) \$695
February 7-8, April 4-5, June 6-7, August 8-9,
October 10-11, December 5-6

Ultrasonic Testing Level I
(40 hours) \$1295
February 11-15, April 8-12, June 10-14,
August 12-16, October 15-18, December 9-13

Ultrasonic Testing Level II
(40 hours) \$1295
February 18-22, April 15-19, June 17-21,
August 19-22, October 21-25, December 16-20

Radiation Safety (IRRSP Preparation)
(40 hours) \$1295 (Approved by State of CA)
January 7-11, April 22-26, August 26-30

Radiography Testing Level I
(40 hours) \$1295
January 14-18, April 29-May 3, September 9-13

Radiography Testing Level II
(40 hours) \$1295
January 21-25, May 6-10, September 16-20

Film Interpretation (40 hours) \$1295
January 28-February 1, May 13-17,
September 23-27

Eddy Current Testing Level I (40 hours) \$1295
March 18-22, July 15-19

Eddy Current Testing Level II (40 hours) \$1295
March 25-29, July 22-26

Visual Testing Level II (24 hours) \$845
January 2-4, July 1-3, Sept 30-Oct 2, Nov 25-27

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
March 4-5, October 28-29

Ultrasonic Phased Array Level I (SNT-TC-1A) (40 hours)
\$1995
March 4-8, October 28-November 1

Ultrasonic Phased Array Level II (SNT-TC-1A) (40 hours)
\$1995
March 11-16, November 4-8

Ultrasonic Phased Array Composite Inspection
New for 2019 (40 hours) \$1995
July 8-12, November 12-15

Back for 2019, Scheduled, ASNT NDT Level III Examination, Refresher Courses

| | |
|--|---------------|
| Basic Level III – Includes text book package worth over \$300 (40 hours) \$1395 | Feb 25-Mch 1 |
| Eddy Current Level III (24 hours) \$995 | July 29-Aug 2 |
| Visual Testing Level III (16 hours) \$795 | September 4-5 |
| Magnetic Particle Level III (16 hours) \$795 | May 20-21 |
| Penetrant Level III (16 hours) \$795 | May 22-23 |
| Radiography Level III (24 hours) \$995 | May 28-30 |
| Ultrasonic Level III (40 hours) \$1395 | June 24-28 |

Additional "Ad Hoc" NDT Training Courses

Please call for dates for the below courses

| | |
|---|-------------------|
| Magnetic Particle Level II 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 2019

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

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