



ASNT
SAN DIEGO
SECTION

Between the Cracks

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

NEWSLETTER - Vol. 9, Issue 4 November 2019

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San Diego Section

of the American Society for

Non-Destructive Testing, Inc.

sd-asnt@cox.net

Website:

www.sd-asnt.org

Mr. Greg Hampton is the Speaker for December 3rd, 2019

Our Speaker is Sergeant Greg Hampton, he has been with the San Diego Sheriff's Office for just over 30 years. Greg has worked detentions, patrol, 800 MHz radio project, detectives, and specialized investigations (Fugitives).

In 2008, Greg was promoted to sergeant where he started working in patrol then became the detective sergeant for the Lemon Grove Station. In 2015, Greg was selected as the Sheriff's Bomb/Arson Unit Sergeant where he has been working for almost 5 years.

With this position Greg is also the Bomb Squad Commander. The Sheriff's Bomb/Arson Unit works closely with the ATF and FBI to keep us all safe.

Topic Title: "Rising to the Challenge: Investigations Involving Bomb/Arson Threats in San Diego County".

Abstract: This talk is on investigations involving the Bomb/Arson Unit and threats here in San Diego County.

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)**



Year End Cash Raffle \$250.00

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

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

Meeting Details

Tuesday, December 3rd, 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.

www.bw7seas.com

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

December 3rd meeting are: **Prime Rib** w/ Mashed Potatoes and vegetables or **Baked Ham** w/ au gratin potatoes and vegetables should you have special dietary need **Vegan** or **Vegetarian Plate** is available on request prior to meeting date.

Please RSVP by the end of business November 25th, 2019, the Monday preceding the meeting with your intent to attend and meal choice, due to Thanksgiving Holiday. On the email below: sd-asnt@cox.net

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: \$26.00

Credit Cards accepted with a Processing Fee.

Save the Date: February 3rd: Past Chairman's Night and Speaker is Mr. David Mitchell.

Merry Christmas





Between the Cracks

November Meeting Report

05 November 2019 the San Diego Section hosted the 3rd 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 21 members and guests in attendance.



The Speaker for the evening was Mr. Flynn Spears of Laser Technologies, Inc. he gave a talk titled "Theory and Applications of Laser Shearography (Aerospace, Marine, Wind)". His presentation covered all elements in some detail, in a way that enabled the non-expert in the technology to come away with an understanding of its basic principles,

strengths and weaknesses. Among the strengths is the fact that it covers a relatively large field of inspection, thus making it much faster than a technique covering an area with a point source. It is capable of quantitatively sizing a defect below the surface of the part that is under inspection. It uses a laser beam to illuminate an area of the part with a shearing mirror arrangement to generate fringe patterns that have a high level of sensitivity to small local deflections of the surface. The deflections are caused by subsurface defects which become visible when the part is stressed in some way. The stress can be induced thermally, with pressure, vacuum and acoustically. The induced stress levels are typically low.

Flynn helped our understanding of the technique by giving numerous examples taken from aerospace, pipeline wrap-repair, marine and wind-turbine blade applications. He covered inspection of composites in some detail. The technique finds disbond's, delamination's, core and impact damage, porosity and wrinkled fibers.

The presentation was well received and generated a number of questions.

The Section thanked Mr. Spears 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; Arnold Marquez - Sherwin Inc., Mathew Kaparic - Advanced Equipment Corp,

Monthly Raffle prizes were sponsored by San Diego Section, and Arnold Marquez - Sherwin Inc.

Happy Thanksgiving!!!!



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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, "Theory and Application of Laser Shearography NDT (Aerospace, Marine, Wind)"

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

December 3rd: Sgt. Greg Hampton -San Diego Sheriff's Office-Sheriff's Bomb/Arson Unit-"Rising to the Challenge: Investigations Involving Bomb/Arson Threats in San Diego County".

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 "Value of Mentoring"
March 23rd - 26th ASNT 29th Research Symposium 2020. Williamsburg Lodge, Williamsburg, VA

April 7th: Mark Bell "What is Important in Metallurgical Failure Analysis, including NDT"

May 5th: "Annual Science Fair Awards" (NDT-related projects). Year End Cash Raffle— must be in Attendance

June (TBA) : Michael Diaz, Change of Gavel

ASNT Annual Conference 2020 Disney's Coronado Springs, Lake Buena Vista, FL; 9 - 12 November 2020

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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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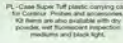
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CA-1000-07 portable magnetic inspection unit. The Parker CA-1000-07 portable magnetic inspection unit is a rugged high-output AC/DC for magnetic particle inspection. Convertible to a battery variable from 100 to 1000 gauss, and is independent of a power supply.



Model 42 AC/DC Converter Probe. Model 42 is available for AC only operation.



8200-MR Converter Probe is a rugged high performance instrument for magnetic particle inspection. This unit provides a strong AC field and includes Parker's original hold-to-charge design that allows the field to be "locked" in a precise level of excitation.



The 8200-MR contains electronic circuitry that is sealed within the housing of the instrument. There is no electrical contact between the surface and internal circuit. This unit is rugged, portable, offers exceptional converter safety plus durability and is ideally suited for high resolution non-destructive applications.



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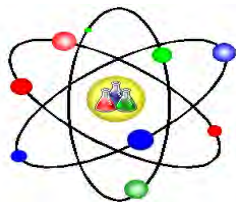
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San Diego Science and Engineering Fair



Please Save the date:

March 11th, 2020

Volunteers are needed for
Judging from 12:15—4:00 PM at the
Greater San Diego Science &
Engineering Fair

Preview Projects On Evening of
March 10th

5:00 to 7:00 PM

Contact by **February 1, 2020**

Denise McKay

poppydancer@yahoo.com

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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!

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Between the Cracks

David Mitchell is the Speaker February 4th, 2020

David Mitchell's career in NDT began in 1974 when he became a Penetrant and Magnetic Particle Level 2 at Mitchell Laboratories and a member of ASNT. By 1977 he was named the Quality Manager of Mitchell Labs and had become certified in UT and RT. In 1980 David received his ASNT Level 3's in UT, PT, & MT. From 1980 to 1992 David taught a variety of classes at Don Bosco Technical Institute for the GLAS section of ASNT. In 1987 David became active in the leadership of the GLAS section, and in 1992 he served as Chairman.

In 1990 David was appointed Vice President and General Manager of Mitchell Labs, eventually to become President in 2002. In 2004 he became President of the newly formed Mitchell Metrology.

During his career, David guided Mitchell Laboratories into a leader among independent labs in automated ultrasonic inspection. He added multi-axis contour following gantry systems for the inspection of large 787, F-22, C-17, and F-35 contoured composite panels, and deployed several different contour following systems for the high-speed inspection of composites and metal components.

David Mitchell led the effort to implement phased and linear array inspection systems for high volume and critical ultrasonic 787 aircraft examinations, developed phase array inspection of critical titanium welds for expendable launch hardware, and supported materials and processes development for monolithic alpha-two and gamma titanium aluminides for reusable launch systems.

In December of 2009 David separated from Mitchell Labs. In of March of 2010 David formed Mitchell NDT Associates. In 2011 David formed Composite Inspection Solutions located in Bensalem, PA as part of XRI. CIS is now part of Arcadia Aerospace.

David Mitchell is currently an ASNT Certified Level 3 in UT & PT. Certification #9007.

David is also a NAS410 Level 3 in UT, MT & PT.

TECHNICAL COMMITTEES

Life time member of American Society for Nondestructive Testing (ASNT), ASNT Fellow, Class of 2002, ASNT Mentoring Award Winner, 2010, Nadcap Supplier Voting member, Member of ASNT Board of Directors 2010 to 2013 and 2019 to present

David presentation will be on advancements being made in the field of UT, using linear arrays to increase inspection speeds and reliability. The discussion will center on the ability of PAUT systems to renormalize the UT beam to the entry surface without the use of mechanical means at normal scan speeds.

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NDT Training, Scheduled courses for January – December 2020

Greatly Expanded Schedule of Classes for 2020

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
Jan 6-8, Feb 24-26, April 13-15, June 1-3,
July 20-22, Sept 21-23, Oct 26-28, Nov 30-
December 2

Penetrant Level I/II SNT-TC-1A

(16 hours) \$695
Jan 9-10, Feb 27-28, April 16-17, June 4-5,
July 23-24, Sept 24-25, Oct 29-30, Dec 3-4

Ultrasonic Testing Level I

(40 hours) \$1295
Jan 13-17, March 2-6, April 20-24, June 8-12,
July 27-31, Sept 8-11, Nov 2-6, Dec 7-11

Ultrasonic Testing Level II

(40 hours) \$1295
Jan 20-24, March 9-13, April 27-May 1,
June 15-19, Aug 3-7, Sept 14-18, Nov 16-20,
Dec 14-18

Radiation Safety (IRRSP Preparation)

(40 hours) \$1295 (Approved by State of CA)
Jan 27-31, March 16-20, May 4-8, June 22-26,
August 10-14, Sept 28-Oct 2, Nov 30-Dec 4

Radiography Testing Level I

(40 hours) \$1295
Feb 3-7, March 23-27, May 11-15,
June 29-July 2, Aug 17-21, Oct 5-9, Dec 7-11

Radiography Testing Level II

(40 hours) \$1295
Feb 10-14, March 30-April 3, May 18-22,
July 6-10, Aug 24-28, Oct 12-16, Dec 14-18

Film Interpretation (40 hours) \$1295

May 26-29, Nov 9,10,12,13

Eddy Current Testing Level I (40 hours) \$1295

Feb 10-14, August 24-28

Eddy Current Testing Level II (40 hours) \$1295

February 17-21, August 31-September 4

Visual Testing Level II (24 hours) \$845

May 26-28, December 21-23

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 30-31, October 12-13

Ultrasonic Phased Array Level I (SNT-TC-1A) (40 hours)

\$1995
March 30-April 3, October 12-16

Ultrasonic Phased Array Level II (SNT-TC-1A) (40 hours)

\$1995
April 6-10, October 19-23

Ultrasonic Phased Array Composite Inspection

New for 2020 (40 hours) \$1995
May 18-22, July 13-17

**Back for 2020, Scheduled,
ASNT NDT Level III Examination,
Refresher Courses**

Basic Level III – Includes text book package July 6-10
worth over \$300 (40 hours) \$1395

Eddy Current Level III (24 hours) \$995 November 23-25

Visual Testing Level III (16 hours) \$795 November 9-10

Magnetic Particle Level III (16 hours) \$795 July 13-14

Penetrant Level III (16 hours) \$795 July 15-16

Radiography Level III (24 hours) \$995 December 21-23

Ultrasonic Level III (40 hours) \$1395 December 14-18

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 2020

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