



ASNT  
SAN DIEGO  
SECTION

# Between the Cracks

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

NEWSLETTER - Vol. 9, Issue 9 May-June 2020

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San Diego Section

of the American Society for

Non-Destructive Testing, Inc.

[sdasnt@gmail.com](mailto:sdasnt@gmail.com)

Website:

[www.sd-asnt.org](http://www.sd-asnt.org)

## Message from Chairman Michael Diaz - June 17, 2020

### MEMBER UPDATE: LETTER FROM CHAIRMAN MICHAEL DIAZ REGARDING COVID-19; IMPACT ON 2020 MEETING / EVENTS

June 17, 2020

Dear members,

As life is starting to come back to “normal” and the 2019-2020 meeting season comes to an end, the ASNT-San Diego Section Board of Directors is continuing suspension of monthly meetings in 2020 given the health concerns for large gatherings and a possible resurgence of the virus in the fall, until further notice.

We will continue to monitor existing and ongoing COVID-19 recovery requirements established by the State of California; the California Department of Public Health; and County and local agencies as it continues to impact our industry significantly. I encourage you to check out the ASNT ISC website, [asnt.org](http://asnt.org) which offers relevant information for professionals to understand the impact the pandemic has had on the industry.

On behalf of the ASNT – San Diego Section Board of Directors, I would like to say we miss you and we look forward to seeing you all at an event sometime soon. Until then, wash your hands, wear your masks and stay safe!

Sincerely,

**Michael Diaz**  
Chairman  
ASNT San Diego Section

## Meeting Details

**All Meetings canceled  
until further notice**

[www.bw7seas.com](http://www.bw7seas.com)

411 Hotel Circle S, San Diego,  
92108

Look for upcoming notices of the next Section Meeting on the website and letters being sent to membership.



## Between the Cracks

### Farewell from the Olsen's

Dear San Diego, ASNT Members and associates.

The time has come for Larry and Sarah Olsen to step back from the San Diego ASNT Section activities and move forward to a new chapter in our lives. We will be leaving the San Diego area and moving to Elkhorn, Nebraska.

Sarah has been retired from the school district, and for myself I will continue to work for a short time but will ease into retirement. We will miss the San Diego area, our SD-ASNT family and all of the friends we have made in the ASNT community.

I have gained immeasurable knowledge and experience from a huge variety of personalities over the years working for and supporting the San Diego Section. I have honed my leadership skills taking from those who have served ASNT before me as well as working with the greatest slate of San Diego Leaders.

I will be maintaining my ASNT Lifetime membership with the San Diego Section. At this time, we would like to thank each and every person who have served with us on the San Diego Board of Directors with for their support and service to the society and San Diego Section.

We wish the San Diego Section well in the future.

Larry and Sarah Olsen

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### Year End Cash Raffle \$250.00

will be drawn at the **September 1st, 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  
SEPTEMBER 1st, 2020 MEETING to win.**

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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, "Advances in UT using linear arrays"

**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"; Meeting Canceled due to COVID-19 Restrictions.

**May 5th:** "Annual Science Fair Awards" (NDT-related projects). Meeting Canceled due to COVID-19 Restrictions.

**June (TBA) :** Michael Diaz, Change of Gavel

**Watch for upcoming notices for  
next Section Meeting**

**September 1st:** 2020 Science Fair Winners and Year End Cash Raffle-

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

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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](mailto:gbchulavista@AOL.com)

Phone - 619-794-6118 mobile

Chairman Michael Diaz

Email - [mike.diaz05@gmail.com](mailto:mike.diaz05@gmail.com)

Phone 619-890-4134 mobile

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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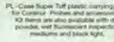
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CA-1000-OR portable magnetic separator unit. Includes high-amp AC/DC for magnetic particle separator. Control panel is military variable trim type to facilitate use by inspectors, and is independent of a new digital LCD display.



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B310 Contour Probe with "V" Notch. AC items are available with the probe and hold fast magnetic inspection module including back light and other carrying case.



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## Between the Cracks

### San Diego Science and Engineering Fair



Our first student is **Mr. Francisco Catanzaro**. He is a Junior from Cathedral Catholic High School. His advisor is Marjan Rafie. The title of his project is **“Determining Plastics with a Grating Spectrometer”**. Optical spectroscopic techniques offer accurate ways of identifying plastics. The use of spectrometers creates significant advantages for determining the identity of plastics and mixtures in the plastic. Using a spectrometer also uses fewer materials to test the object, and can be tested from afar without the need for chemical vats or other labor-intensive sorting methods. Infrared (IR) spectroscopy is well suited to the analysis of polymer materials such as common household plastics like polypropylene. The intent of this project is to determine if a diffraction grating spectrometer is able to detect the differences between plastics. I believe that the diffraction grating spectrometer will be able to distinguish between different varieties of plastics and be able to successfully determine the polymer composition of a plastic to distinguish recyclable plastics from non-reusable plastics.



Our next student is **Mr. Nathan McKinney**. He is an Eighth grader at Good Shepherd Catholic School. His advisor is Mary Anne McNeil. The title of his project is **“Mapping the Field of an Electromagnet”**. Five different electromagnets were constructed with coiled copper wire: two circular, one rectangular, one figure-8, and one circular electromagnet with equal numbers of clockwise and counterclockwise turns. All magnets were constructed with 10 turns, excepting one circular magnet with twenty. Voltage applied to each electromagnet induces a current which in turn generates a magnetic field. This magnetic field can then be measured in two ways. The first is sprinkling iron filings onto a paper elevated above the electromagnet. The iron filings will align along the magnetic field lines and create a picture of the magnetic field. The second way is to attach a permanent neodymium magnet to an electronic scale.

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## Between the Cracks

### San Diego's Meritorious Service Award

The San Diego Award was established 1998-1999 *Award for Outstanding Meritorious Service* was established to recognize those people in the San Diego Section who have bettered the Section over the Society by working to encourage others to reach goals they may have otherwise not sought, and to offer the rest of the San Diego membership an example of what they could be accomplishing by acting as Mentors within the Section. Note: Cannot be current Chairman of the San Diego Section.

**Contact the Awards Committee Chair: Hans Weber** or any San Diego Section BOD member for further information on how to nominate any individual by **30 June 2020**.

**Please note:** All nominees must be nominated by a San Diego Section Member 500 hundred words or less. San Diego Section-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 fellow SD- ASNT members by nominating someone!

### Officers and Directors 2020-2021

#### San Diego Section Board of Directors

The **San Diego Section Board** is Announcing the **officers** and **directors-at-large** for the 2020-2021 year.

Chairman: Gary Bass

Vice Chairman: Cody Engstrand

Treasurer: Cody Engstrand

Secretary: Rachel Gilmore

Past Chairman: Michael Diaz

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Ramon Thomson

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William Harris

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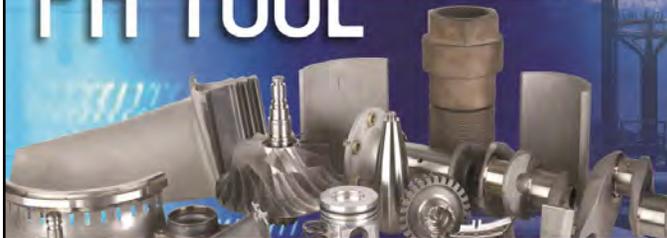
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# Between the Cracks

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**Magnetic Particle Level I/II** SNT-TC-1A (24 hours) \$845

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

June 4-5, July 23-24, Sept 24-25, Oct 29-30, Dec 3-4

**Ultrasonic Testing Level I** (40 hours) \$1295

June 8-12, July 27-31, Sept 8-11, Nov 2-6, Dec 7-11

**Ultrasonic Testing Level II** (40 hours) \$1295

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)

June 22-26, August 10-14, Sept 28-Oct 2, Nov 30-Dec 4

**Radiography Testing Level I** (40 hours) \$1295

June 29-July 2, Aug 17-21, Oct 5-9, Dec 7-11

**Radiography Testing Level II** (40 hours) \$1295

July 6-10, Aug 24-28, Oct 12-16, Dec 14-18

**Film Interpretation** (40 hours) \$1295 Nov 9,10,12,13

**Eddy Current Testing Level I** (40 hours) \$1295 August 24-28

**Eddy Current Testing Level II** (40 hours) \$1295 August 31-September 4

**Visual Testing Level II** (24 hours) \$845 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 October 12-13

**Ultrasonic Phased Array Level I** (SNT-TC-1A) (40 hours) \$1995

October 12-16

**Ultrasonic Phased Array Level II** (SNT-TC-1A) (40 hours) \$1995

October 19-23

**Ultrasonic Phased Array Composite Inspection**

**New for 2020** (40 hours) \$1995 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

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### Back for 2020

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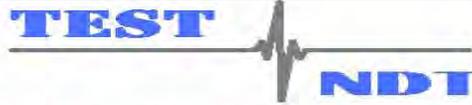
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**NDT Training, Scheduled courses for January – December 2020**

**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](http://www.testndt.com), email [ndttrain@aol.com](mailto:ndttrain@aol.com), Ph (714) 255-1500