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Between the Cracks

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

NEWSLETTER - Vol. 9, Issue 8 April-May 2020

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San Diego Section

of the American Society for

Non-Destructive Testing, Inc.

sdasnt@gmail.com

Website:

www.sd-asnt.org

**Meeting Canceled
due to
COVID-19
Restrictions at
Restaurant**

Message from Chairman Michael Diaz - May 4th, 2020

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

May 4, 2020

Dear members,

In accordance with the State of California and the Governor's Stay-At-Home-Order as well as guidelines established by the Centers for Disease Control (CDC) and the California Department of Public Health, the suspension of ASNT San Diego Section programs and activities **continues** until further notice. Unfortunately this will include our May 5, 2020 meeting.

The ASNT San Diego Section Board of Directors agreed to extend this suspension during its monthly board meeting held on Saturday April 18, 2020 in compliance with the Stay-At-Home Order signed by the Governor on March 19. Governor Newsom also made it clear that there is a "roadmap" that we must follow in order to reopen the economy and public services in a multi-phase approach. You can view more information about this here. <https://www.gov.ca.gov/wp-content/uploads/2020/04/Update-on-California-Pandemic-Roadmap.pdf>

The suspension covers all ASNT San Diego Section events and activities including, but not limited to, Monthly Meetings and Education. ASNT San Diego Section is actively monitoring national and state organizations and we will continue to evaluate the circumstances associated with COVID-19 and update our status to members as conditions change and will communicate updates on our website and via email. Please check our website at: www.sd-asnt.org for continued updates and information related to the Coronavirus and activities throughout this period.

We thank you for your ongoing support as we manage our Section during this time. The safety and security of our community is, and will always be our highest priority. We look forward to seeing you all soon, once conditions permit. Until then, please stay healthy and safe!
Sincerely,

**Michael Diaz
Chairman
ASNT San Diego Section**

Meeting Details

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

**All Meetings canceled
until further notice**

www.bw7seas.com

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92108

May 5th meeting are:

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

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



Between the Cracks

No Meeting Report for April—COVID-19

Lets Remember our Veterans,
Heroes, Nurses, Doctors,



Grocery workers, Postal workers,



Emergency Staff-Police, Fire Fighters,



Ambulance
personnel



Thank You to one and
ALL.

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.



Dave Waitt

Account Mgr - South Western Region
Fuji NDT Systems - Huntington Beach CA

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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

- 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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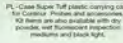
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Between the Cracks

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: Larry Olsen or any San Diego Section BOD member for further information on how to nominate any individual by **1 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

Directors-at-Large:

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Ramon Thomson

Denise McKay

William Harris

Eric Roed

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Between the Cracks

To be rescheduled at a later date

Mark Bell, PE, is a graduate of **Cal Poly** in **Metallurgical Engineering**. He is owner of Bell Metallurgy, in San Diego, CA. He has metallurgical experience in factories and in construction regarding welding, corrosion wear, NDT and failure analysis. 1984 was the year he became a full time, independent consultant. He has taught AWS CWI Classes nationwide. He has been CWI with endorsements in D1.1, D1.5 and API 1104. Mark travels and teaches classes for ASM in Failure Analysis, Corrosion, Welding and Metallurgy for the Non-Met. He served on the Board of Directors for the AWS from 1992 to 2004. He has held Level III certifications in methods: MT, VT and PT in accordance with TC1A. He has used the Level III in VT for inspection and training classes in the Pharmaceutical Industry. His consulting business is in failure analysis, welding, and corrosion, located in San Diego. NDT is a key step in conducting a good Metallurgical Failure Analysis.

Topic of his talk: *“What is Important in Metallurgical Failure Analysis, including NDT”*

Abstract: This presentation will use case histories in conducting successful Metallurgical Failure Analysis and how the use of NDT has been an important step in the solution of problems in machinery, weldments, structures and pipelines. A lifetime of experience is the basis for the evening’s presentation of steps as being key to conducting a good metallurgical failure analysis such as:

- ◆ defining the problem,
- ◆ hands-on investigation,
- ◆ continuing to grow,
- ◆ the proper use of NDT skills,
- ◆ good communication and
- ◆ what was learned; both good decisions and mistakes.

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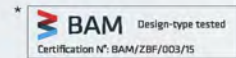
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NDT Training, Scheduled courses for January – December 2020

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.

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**Any of our courses can also be held at your facility just
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