



ASNT  
SAN DIEGO  
SECTION

# Between the Cracks

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

NEWSLETTER - Vol. 10, Issue 2 September 2020

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## Mr. Mark Bell will be the Speaker for October 6th 2020

**Our Speaker** will be **Mr. Mark Bell**, PE. Mr. Bell is a graduate of Cal Poly in Metallurgical Engineering. 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 SNT-TC-1A. 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.

Let's take advantage of the COVID 19 isolation problem and use the evening to learn something. Time is allotted for images of failed components to be shared as examples of using NDT as a tool in Failure Analysis. We will not be able to use real time NDT methods. The submitted images and results of NDT methods will be fruitful. By sending in images there will be a group exchange of ideas and knowledge. Mark Bell can be contacted by email: [Bell.Metallurgy@gmail.com](mailto:Bell.Metallurgy@gmail.com) or cell 209 367 1398.

**Topic Title:** "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 tool in the solution of problems in machinery, weldments, structures and pipelines. A lifetime of experience is the basis for the evening's presentation:

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

## Meeting Details

*Tuesday, October 6th, 2020*

**Meeting will be virtual using Webex.**

Please check the San Diego Section of the American Society for Non-Destructive Testing, Inc. website for a link to register

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

**Presentation begins 6:30PM**

And keep a lookout in your inbox for a Webex invitation from sender "ASNT San Diego Section" for a link to register

**Save the Date:**  
November 3<sup>rd</sup>:  
**Speaker is**

Michael  
McGloin

## Year End Cash Raffle \$250.00

will be drawn at the **May 4th, 2021 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 4th, 2021 MEETING to win.**



## Between the Cracks

### Incoming Chairman's Message

After all the years of attending ASNT Meetings, I now have the honor of being your Chairman for the 2020-2021 Year. I am humbled by the opportunity to follow in the footsteps of our past chairpersons who were outstanding individuals and whom I regard with the highest respect.

With the situation going on in the world presently, there will be many difficulties. However, I see no reason that we would not be able to overcome these challenges with the team of high caliber people who that will be assisting me this year.

I encourage each and every one of you to attend the meetings – either through virtual media or in person when permissible again.

Involvement in Nondestructive Testing has been an exciting career path for me. I started this path as a native young man who thought "Wow, they have books that tell you what to do!" when I first set foot in the Navy's NDT school. I was intrigued with the NDT process and spent a great portion of my career gaining NDT experience while working the U.S. Navy ship and submarine repairs. This basis of knowledge and experience in NDT helped me to transition to the Aerospace Industry where I have thrived as an NDT Level III for the recent...not saying how many... years.

My career journey started in the NDT Lab onboard U. S. Navy Submarine repair ship where I obtained my NDT Level III/Examiner Certifications and then went on to be an Instructor at the Navy's NDT School at the Naval Station here in San Diego.

I remember one NDT Speaker talking about some of the different (maybe even weird) things they did or inspected and I can say the same. I look back on my 'Sea Stories' fondly and look forward to sharing them with you while serving as the new Chairman.

Respectfully  
Gary E. Bass

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2020-2021 Technical / Administrative Program

San Diego Section of the  
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2020:

September 1st: Gabriel Cyr, "Naval applications of Pulsed Eddy Current (PEC) "

October 6th: Mark Bell, "What is Important in Metallurgical Failure Analysis, including NDT"

November 3rd: Michael McGloin , "Self Employment"

November 9th—12th 2020 ASNT Annual Conference 2020– Virtual Conference

December 1st: U.S. Navy Captain Tim Verhoef (Retired), "USS Midway Aircraft Carrier Museum PowerPoint Tour".

2021:

January 5th: (Dark-No Meeting)

February 2nd: "Past Chairman's Night", Speaker TDB,

March 2nd: Randy Jones, "Better Understanding of NDI, NDE, NDT"

April 6th: Jim Hofer, Topic TDB

May 4th: "Annual Science Fair Awards" (NDT-related projects). Year End Cash Raffle– must be in Attendance

15 - 18 November 2021 - ASNT Annual Conference 2021 - Renaissance Phoenix Downtown, Phoenix, AZ

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## 2020 - 2021 NDT Educational Opportunities

We have posted a list of potential training courses for the 2020-2021 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

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

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: \$650 Non-member: \$725
- ◆ Ultrasonic Level II (40 hrs)
- ◆ UT - II (40hrs) Members: \$650 Non-member: \$725
- ◆ Radiography Level I (40 hrs)
- ◆ RT - I (40hrs) Members: \$650 Non-member: \$725
- ◆ Radiography Level II (40 hrs)
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PL-Class Super-Tuff plastic carrying case for Contour Probe and accessories. All items are also available with dry powder, wet fluorescent inspection medium and back light.



The Parker DA1000-DR portable magnetic inspection unit is a rugged AC/DC magnetic particle inspection instrument. Current output is infinitely variable from zero to maximum, and is regulated by a new digital LCD display. An array of accessories are also available including cables, leads and transport carts.



The B300-AR Contour Probe is a rugged high performance instrument for magnetic particle inspection. This unit provides a strong AC field and includes Parker's original feed-the-rod design that allows the field to be "focused" at a precise area of inspection.



B310 - Shown with "A" kit items. Kit items are available with dry powder and wet fluorescent inspection medium, including back light and steel carrying case.



DA200 - AC/DC Contour Probe Model A2 is available for A.C. only operation.



The B300-AR contains electronic circuitry that is sealed within the housing of the instrument. There is no electrical contact between the surface and internal circuit. This one-piece construction offers improved operator safety plus durability and is ideally suited for high moisture area applications.



DA400 - AC/DC Contour Probe Available in various kit forms. May be ordered with the M200 "View Light" at extra cost.

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2020-2021 ASNT Events

9 - 12 November 2020 - ASNT Annual Conference  
2020- Virtual Conference

3 - 5 February 2021 - International Chemical and Petroleum Industry Inspection Technology Conference  
Sugar Land Marriott Town Square, Sugar Land, TX

26 - 29 April 2021 - ASNT Research Symposium 2021  
Westin Westminster, Westminster, CO

22 - 24 June 2021 - NDT of Composites 2021  
Hyatt Regency Lake Washington, Renton, WA

5 - 9 July 2021 - 7th US-Japan NDT Symposium  
Waikoloa Beach Marriott Resort & Spa, Waikoloa, HI

27 - 29 July 2021 - Digital Imaging for NDT 2021  
Silver Legacy Resort Casino, Reno, NV

17 - 19 August 2021 - 16th International Symposium on Nondestructive Characterization of Materials  
Royal Sonesta Harbor Court Baltimore, Baltimore, MD

15 - 18 November 2021 - ASNT Annual Conference 2021 - Renaissance Phoenix Downtown, Phoenix, AZ

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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 2021**

**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

### September Meeting Report

01 September, 2020 the San Diego Section hosted the 1st Section Technical Meeting of the 2020-2021 year. It was the Sections first virtual meeting with Webex and it went off without a hitch with 21 members and guests in attendance including ASNT President Michael McGloin.

The speaker for the evening was Mr. Gabriel Cyr, a junior applications engineer with Eddyfi Technologies presenting a talk on "Naval applications of Pulsed Eddy Current (PEC)". The session presented an approach for in-service assessment of deck plates corrosion in aging ships without removing floor tiles and coatings. Non-intrusive inspection using PEC enables an earlier corrosion assessment, minimizing refit schedule disruption and cost arising from unplanned repairs. The presentation was well received and concluded with a Q/A session .

The Section thanked Mr. Cyr for his talk.

### Outgoing Chairman's Message

Dear Fellow San Diego Section Members,

It has been my pleasure and a privilege to serve as Chairman of the Board this past, 2019-2020 fiscal year and what a year it has been. The challenge with COVID-19 has changed our "normal." Being distant from family and friends as given everyone a new look on life. One lesson I've taken away from the current times is the reminder that we need to cherish everything we have because we don't know what is in store for us tomorrow.

As a Section, many new adaptations were needed to continue our day to day operations and I am proud of everyone involved who helped with the changes!

The San Diego Section of ASNT is an outstanding organization that has a long and distinguished 64-year history, supporting, promoting and protecting the major industries in the San Diego area.

In this next fiscal year, 2020-2021, the San Diego Section of ASNT will celebrate a significant milestone, turning 65 years old (1955-2021). There is so much to celebrate and we hope our members are excited to be a part of it!

In closing, I wish the Section continued success and I would encourage all members to make the decision to get involved, to support and promote the work of the ASNT San Diego Section.

Let the next chapter begin! The effectiveness of the Section depends on you.

Sincerely,

Mike Diaz

Past Chairman

ASNT San Diego Section

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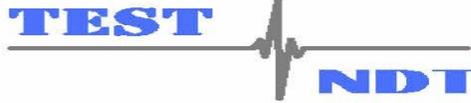


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Jan 6-8, Feb 24-26, April 13-15, June 1-3,  
July 20-22, Sept 21-23, Oct 26-28, Nov 30-  
December 2

**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**

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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

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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



## Nondestructive Testing Training Course Radiographic Testing Level 1

Course curriculum will meet ASNT: SNT-TC-1A, ASNT CP-189 and NAS 410 requirements for classroom training.  
Level 1 - 40 hrs.

Class Location:

Chromalloy  
7007 Consolidated Way  
San Diego, CA. 92121

Course Fees:

ASNT Member Level 1: \$650.00 (40 hrs.)  
If using Credit card: \$673

Non ASNT Member Level 1: \$725.00 (40 hrs.)  
If using Credit card: \$751

Instructor: Gary Bass

Note: This class has been scheduled,  
If interested in taking this class, see below for contacts.  
**RT Level 1 Registration Deadline is Oct 9, 2020.**

All fees are due at 1<sup>st</sup> class or before. Unless other  
arrangements have been made.

**Note minimum class size is 5**

**If this class is not filled by the registration deadline the RT  
Level 1 course will be rescheduled or cancelled.**

**NOTE to all course attendees:**

Non-Chromalloy students will be required to complete and  
sign a release form.

Personal Protective Equipment is required when going  
into the RT work area.

Safety Glasses and Steel Toe footwear.

**LONG PANTS are required in the building at all times.**

Contact Information / Class Registration:

Gary Bass (619) 794-6118  
[gbchulavista@aol.com](mailto:gbchulavista@aol.com) or [gbass@chromalloy.com](mailto:gbass@chromalloy.com)

**Level 1 Class Dates:**

Date: Saturdays 07:00AM – 3:30 PM

October 24

October 31

November 7

November 14

November 21

Basic Outline of Course to be presented;

- Level 1
- \* Introduction to Radiographic Testing
- \* Types and Sources of Radiation
- \* Radiation Safety
- \* Radiographic Testing Principles
- \* Radiographic Equipment
- \* Radiographic Film Processing
- \* Radiographic Artifacts

A detailed course outline will be provided as part of the final documentation  
package upon course completion.

Other Nondestructive Testing Courses are listed on [www.sd-asnt.org](http://www.sd-asnt.org)