



Between the Cracks

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

SD-ASNT
NEWSLETTER

Vol. 7, Issue 8
April 2018

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

bod@sd-asnt.org

Website:
www.sd-asnt.org

Year End Cash Raffle \$250.00

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

You must be present at the MAY MEETING to win.

Science Fair Winners are the Speakers for May 1st

Christopher Do, attends Rhoades School, Grade 7, his Advisor is Roxanne Hunker. His project was **"Exploring a Novel Application of Ferrofluid for Structural Stability"**. His awards were from **GSDSEF** Category Placement: **Second Place** and The American Society for Non Destructive Testing (San Diego Section).

Ferrofluid is a magnetic fluid that becomes a solid mass when under the influence of a magnetic field. I wondered whether this property could be applied to the problem of stabilizing buildings in an earthquake. I believe that ferrofluid can be used to stabilize buildings. As the building is constructed, magnets and ferrofluid could be placed where the building will most likely experience the greatest stress.

Nadia Salah, attends Islamic School of San Diego, Grade 8, her Advisor is Arwa Alkhawaja. Her project was **"Which Oil Makes the Best Ferrofluid"**. Her awards were from **GSDSEF** Category Placement: **First Place**, American Chemical Society, San Diego Section, American Society for Non Destructive Testing (San Diego Section), Society of American Military Engineers, and she was a **Sweepstakes Runner- Up in Junior Division Physical Sciences**.

Ferrofluid has unique properties because the iron-oxide particles are magnetic, therefore the fluid can be controlled by a magnetic field. Ferrofluid technology is well established and capable of solving a wide variety of problems. It enhances the performance of the device it's used for, but store-bought ferrofluid is exceedingly expensive and stains everything it comes in contact with. Additionally, it has a strikingly strong odor.

Shreya Ranganath, attends Bonita Vista HS, Grade 11, her Advisor is Michelle Mardahl. Her project was **"Boron Carbide Coated in Situ Reinforced Titanium Matrix Composite"**. Her awards were from **GSDSEF** Category Placement: **Second Place**, American Society of Mechanical Engineers, Association for Women in Science, San Diego Chapter, American Society of Materials International, San Diego Chapter, American Society for Non Destructive Testing (San Diego Section), USN - ONR (US Navy Science and Technology) / Naval Science Awards Program (NSAP), and Society of Women Engineers - San Diego County Section.

My cutting-edge Phase I work on a titanium matrix composite [Ti (titanium) – TiB (titanium boride) – TiC (titanium carbide)] offers the potential for cost-efficient production route since the two types of ceramic reinforcements - TiB and TiC - are produced directly and instantaneously during the reaction process in the titanium metal matrix. In addition, this approach minimizes the reinforcement damage frequently encountered in powder metallurgy processes. The likely result is a good interfacial bond strength between the matrix and the ceramic reinforcements, and refinement of grain size.

Meeting Details

Tuesday, May 1st, 2018
BOD Meeting 5:00-5:30PM
Social time 5:30-6:15 PM
Dinner 6:30-7:30 PM

Presentation begins 7:30PM in the "Lord Jim Room" of the Best Western Seven Seas' Restaurant.
411 Hotel Circle S, San Diego, 92108

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

The meal choices for the **May 1st** meeting are: **Salisbury Steak** or **Hawaiian Chicken** should you have special dietary need **Vegan** or **Vegetarian Plate** is available on request prior to meeting date. Please contact **Denise McKay** at

The e-mail below:

poppydancer@yahoo.com
Please RSVP by the end of business April 27th, 2018, the Friday preceding the meeting with your intent to attend and meal choice.

www.bw7seas.com

Meeting Attendance at presentation only is no cost

Meeting Dinner Cost:
San Diego Section ASNT Student Member, Military and Retired Members: \$10.00

ASNT Members and Guests: \$25.00



Between the Cracks

Meeting Report Vendor's Night April 3rd, 2018

April 03, 2018 the San Diego Section hosted the 7th Section Technical Meeting of the 2017 – 2018 year. The meeting was held at the Seven Seas Lodge, 411 Hotel Circle South, San Diego, CA with 22 members and guests in attendance.

The speaker for this event was Ms. Marybeth Miceli, ASNT Director. The title of her talk is ASNT initiatives in various areas. Ms. Miceli spoke on "ASNT Activities" and from various departments; Certifications, with the online examination process, Membership campaigns, ASNT participation in STEM and Section Operation Council activities. Her talk was well received by all in attendance. Section Chair; Denise McKay presented Marybeth with a Certificate of Appreciation and a Clock from the San Diego section.



The evening concluded with the customary Monthly Raffle. Prizes were sponsored by David Waitt Fuji Film, Marybeth Miceli, and the San Diego section.

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2017-2018 Technical / Administrative Program

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

2017:

September 5th: Doug Davies, Element Materials Technology, Rancho Dominguez, *“When We Get it Wrong Why NDT Matters”*.

October 3rd: Matt Roberts, Virtual Media Intergeration, LTD, *“A Close-up Look at Computed Radiography: Past, Present and Future”*

October 30th— November 2nd: ASNT Annual Conference 2017 at Gaylord Opryland Resort & Convention / Nashville, Tennessee. Awards to be given to four of the Members.

November 7th: Mark Bell, Bell Metallurgy, *“Role of NDT in Metallurgical Failure Analysis”*

December 5th: Ms Mary Jo Davis Christmas Event—Spouses / 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)

2018:

January 2nd: (Dark—No Meeting)

February 6th: “Past Chairman’s Night”, Michael McGloin, *“Home Inspection”*

March 6th: Vendor’s Night

March 26th - 29th ASNT 27th Research Symposium 2017. Double Tree at Universal / Orlando, Florida

April 3th: Marybeth Miceli *“Recent ASNT Initiatives”*

May 1st: “Annual Science Fair Awards” (NDT-related projects).

June (TBA) : Denise McKay, Change of Gavel

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2017 - 2018 NDT Educational Opportunities

We have posted a list of potential training courses for the 2017-2018 year (August through June).

Please contact **Education Chair - Larry Olsen** 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: Larry Olsen Email — sd-asnt@cox.net

Home 619-444-2319 Cell 619-228-5449

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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Year End Cash Raffle \$250.00

will be drawn at the

May 1st, 2018 Meeting.

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**You must be present at the
MAY 1st, 2018 MEETING to win.**

**Change of Gavel
to be announced for June
Date, Place and Time**




PARKER
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PL - Clear Super Tuff plastic carrying case for Contour Probe and accessories. IG items are also available with dry powder, wet fluorescent inspection mediums and black light.

DA600 - A.C./D.C. Contour Probe. Available in various IG items. May be ordered with the Y500 Yoke Light at extra cost.

B110 - Shown with "A" IG items. IG items are available with dry powder and wet fluorescent inspection mediums, including black light and steel carrying case.

BA3110 - Portable, stand alone battery transfer 110VAC power supply. Operate A.C. Yokes, when normal power source is unavailable. Contour Probe sold separately.

DA200 - A.C./D.C. Contour Probe. Model A210 available for A.C. only operation.

B100 - A.C. Contour Probe. Our most economical. May be ordered with the Y400 Yoke Light at extra cost.

B200 - A.C. Contour Probe. May be ordered with the Y500 Yoke Light at extra cost.

PL8 & PL10 - Measuring Gols. 8" & 10" I.D. Complete with Carrying Case.

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Between the Cracks

San Diego Section Board of Directors



San Diego Section
Members of ASNT
This is Nominations
of Officers and Directors for
2018 – 2019.

The Electronic Ballot were distributed in **April 15, 2018** for your vote. Please vote by **May 1st, 2018**. Please follow Instructions on your ballot received.



Nominations were placed on the electronic ballot.

Nominations are:

Chair: Ramon Thomson

Vice Chair: Michael Diaz

Treasurer: Aurapong (Jerry) McAnulty

Secretary: William Harris

Director at Large: Gary Bass

Director at Large: Erik Roed

These three are still on the Board:

Past Chair: Denise McKay

Hans Weber

Larry Olsen




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NDT Training, Scheduled courses for January – December 2018

Greatly Expanded Schedule of Classes for 2018

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
January 22-24, March 5-7,
April 9-11, April 30-May 2, July 16-18, August 6-8,
September 10-12, December 3-5

Penetrant Level I/II SNT-TC-1A

(16 hours) \$695
January 25-26, March 8-9,
April 12-13, May 3-4, July 19-20, August 9-10,
September 13-14, December 6-7

Ultrasonic Testing Level I

(40 hours) \$1295
January 8-12, March 12-16,
April 16-20, May 7-11, July 23-27,, August 13-17,
September 17-21, December 10-14

Ultrasonic Testing Level II

(40 hours) \$1295
January 15-19, March 19-23, April 23-27,
May 14-18, July 30-August 3, August 20-24,
September 24-28, December 17-21,

Radiation Safety (IRRSP Preparation)

(40 hours) \$1295 (Approved by State of CA)
January 29-February 2, June 4-8, October 1-5

Radiography Testing Level I

(40 hours) \$1295
February 5-9, June 11-15, October 9-12

Radiography Testing Level II

(40 hours) \$1295
February 12-16, June 18-22, October 15-19

Film Interpretation (40 hours) \$1295

TBA

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

March 26-30, October 22-26

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

April 2-6, October 29-November 2

Visual Testing Level II (24 hours) \$845

January 3-5

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

February 19-20, November 5-6

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

\$1995
February 19-23, November 5-9

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

\$1995
February 26-March 2, November 12-16

Ultrasonic Phased Array Composite Inspection

New for 2018 (40 hours) \$1995
September 4-7

Back for 2018, Scheduled, ASNT NDT Level III Examination, Refresher Courses

Basic Level III – Includes text book package worth over \$300 (40 hours) \$1395	May 21-25
Eddy Current Level III (24 hours) \$995	August 27-31
Visual Testing Level III (16 hours) \$795	November 27-28
Magnetic Particle Level III (16 hours) \$795	September 4-5
Penetrant Level III (16 hours) \$795	September 6-7
Radiography Level III (24 hours) \$995	July 9-11
Ultrasonic Level III (40 hours) \$1395	June 25-29

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 2018

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

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