



Mountaineers Club Headquarters  
300 West 3rd Ave.  
Seattle, WA 98119  
206-691-9918

## From I-5

Take the Mercer St/Seattle Center exit. Follow the signs to the Seattle Center. After you pass the Space Needle, turn right onto Denny Way. After about four blocks Denny curves to the right and changes name to Western Ave. After the curve, go three more blocks and turn right on Third Ave West. The building is on the right (northeast) corner



Emery E. Roberts  
Secretary, Pacific Northwest Section  
1807 S 118<sup>th</sup> #202  
Seattle, WA 98168

RETURN REQUESTED

## MARCH MEETING

**Topic:** [Radiation Safety Refresher Seminar](#)

In addition to the typical topics of radiation safety Batelle, Pacific Northwest National Laboratories will be present  
**"Tools to Counter Nuclear Terrorism"**

**Date:** Saturday, March 20, 2004

**Times:** 7:30 a.m.-4:p.m.

**Registration:** by web site, mail or on site

**Location:** Mountaineers Club Headquarters  
300 Third Ave. West  
Seattle, WA 98119  
(206) 284-6310 Business line

Registration forms at

<http://www.asntpnws.org/radreg.html>

Would you or someone you know like to be a guest speaker at a section meeting? Is there a topic you would like to hear about? If so contact [ward.a.fong@boeing.com](mailto:ward.a.fong@boeing.com)

Your advertisement could be in this newsletter. Contact [ward.a.fong@boeing.com](mailto:ward.a.fong@boeing.com) regarding rates.

Mailing label



## Section Officers

For term June 1, 2003 to May 31, 2004

### Chairperson

Ward Fong  
The Boeing Airplane Company  
Work Number 425- 234-8512

### Vice Chair

Dave Hall  
L and W Research  
Work Number: 206-619-2848

### Secretary

Emery E. Roberts  
Professional Service Industries, Inc.  
Work Number 206-282-0666

### Treasurer

Lynn Graham  
MPM Products  
Work Number: 253-813-1811

### Directors

Dave Odegard  
Cascadetekk

Bob Swisher  
Caliber Inspection

Dale Morgan  
Caliber Inspection

Gary Smith  
The Boeing Company

Bill Meade  
The Boeing Company

Mark Marlow  
Caliber Inspection

Flynn Spears  
ICSENDT

TJ Peraza  
Cascadian Technologies

### Past Chairman

Clive Graham  
Western Pneumatic Tube  
Work Number: 425-822-8271

### Awards Chairperson

John Deboo  
Boeing Airplane Company

## SECTION NEWS

### Electronic Newsletter Distribution

We would like to stop sending you paper copies of the monthly newsletter. Please send email to [secretary@asntpnws.org](mailto:secretary@asntpnws.org) so you can be removed from the paper newsletter mailing list. Include the following information:

1. Name
2. The fact that you want to stop getting the paper copy
3. Email address to receive email copies only.

Most company email servers will not accept email unless it has a specific address such as [you@server.com](mailto:you@server.com).

If your E-mail address has changed, please E-mail the changes to the Chapter's Sec. at [secretary@asntpnws.org](mailto:secretary@asntpnws.org).

### EMAIL UPDATE

The member database on the section web site is once again fully functional. Please update your email address at the [section web page](#) by choosing member data base and details, also update your [member profile at headquarters](#).

### LEVEL III CERTIFICATES

Certificates are available at each meeting to document your meeting attendance for Level III renewal points. See an officer for details.



[Radiation Safety Refresher Seminar](#) on March 20, 2004 at the Mountaineers Club, Seattle, WA



Register early and save! Meets refresher requirements of USNRC 10CFR34 and Washington State. See information elsewhere in this edition or on the web site at <http://www.asntpnws.org/radreg.html>

### Message from the President

Please accept my resignation as Chairman of the Board of the Pacific Northwest Section of the American Society of Nondestructive Testing effective March 12, 2004.

During my term as Chairman, I feel the Board of Directors was able to achieve many of the goals we had hoped to accomplish in the 2003-04 year. We provided a first class Radiographic Level I course last fall, and enjoyed a spirited and festive Christmas Party in early December. In early 2004, we executed a very successful NDT EXPO at the Museum of Flight which featured seventeen vendor booths and an attendance of nearly one hundred

The reins of the section will now be passed and have been accepted by our current Vice-Chairman, Dave Hall. Dave is a huge proponent of the ASNT and the local section and will unquestionably have the membership's interest at heart when planning and making decisions in the near and distant future.

*Ward A. Fong*

Chairman

Pacific Northwest Section

The American Society of Nondestructive Testing



## OTHER EVENTS – 2004

- MAR 3-6 [National Manufacturing Week](#) Technical Conference, McCormick Place Complex, Chicago, Illinois
- MAR 8-9 [Failure Prevention in Steam Systems](#), Las Vegas Nevada
- MAR 8-12 13th Annual Research Symposium 2004 (ASNT Spring Conference), Hilton Austin, Austin, Texas. Contact **ASNT** at [kwise@asnt.org](mailto:kwise@asnt.org). See [Call for Abstracts](#), [Online Abstract Submission](#), [Invitation to Exhibit](#).
- MAR 14-18 **Smart Structures/NDE 2004**, Town and Country Resort & Convention Center, San Diego California. Visit the Conference website at <http://spie.org/Conferences/Calls/04/ss/conferences/index.cfm> for further information or contact SPIE: 1-360-676-3290, Fax: 1-360-647-1445.
- MAR 5-9 **ASME International Mechanical Engineering Education Conference** Sheraton Sand Key Resort, Clearwater Beach, FL
- MAR 30-APRIL 1 **AeroNDT 2004 Exhibition & Technology Forum**, Hamburg, Germany, <http://www.AeroNDT.com> or <http://www.aerospacetesting-expo.com>
- MAY 9-11 **NDT in the Heartland**: An Aerospace Perspective, Hyatt Regency Wichita, Wichita, Kansas. Contact **ASNT** at [kwise@asnt.org](mailto:kwise@asnt.org).
- JULY 25-30 **31st Annual Review of Progress in Quantitative Nondestructive Evaluation** Colorado School of Mines, Golden, Colorado <http://www.cnde.iastate.edu/qnde/qnde.html>
- AUG 30 - SEP 3 **16th World Conference on Nondestructive Testing**, Montreal, Canada, <http://www.wcndt2004.com>
- SEP 14-17 **Structural Materials Technology (SMT)**: NDE/NDT For Highways and Bridges, Buffalo Hyatt Regency, Buffalo, New York. Contact **ASNT** at [kwise@asnt.org](mailto:kwise@asnt.org). See [Call for Papers](#), [Online Abstract Submission](#), [Invitation to Exhibit](#).
- NOV 14-19 ASME **International Mechanical Engineering Congress and R&D Expo**, Anaheim Hilton, Anaheim, California featuring a symposium for [Nondestructive Evaluation Techniques for Damage Characterization and Remaining Life Estimate](#) (choose Technical Program, Call for Papers, Non-destructive Evaluation)
- NOV 15-19 **ASNT Fall Conference and Quality Testing Show**, Riviera Hotel, Las Vegas, Nevada. Contact **ASNT** at [kwise@asnt.org](mailto:kwise@asnt.org). See [Exhibitor Prospectus](#) and [Exhibitor Contract](#).

## SECTION PHOTO COLLAGE

Anyone that has any old photos of past local ASNT people/functions or anything that may be interesting for a section photo collage, please contact [Lynn Graham](#). She would like to put together something nice for the section and is asking for your help in doing so. Thanks very much. Lynn can be reached at (253) 813-1811.

## NEWSLETTERS

We are looking for past newsletter/meeting notices for any year for inclusion on the web site. Of particular interest are those edited by Mr. Harold Pinsch. If the section can borrow them for scanning purposes please contact a board member.



774 Marine Drive Bellingham, WA 98225-1530 360-671-9121 Fax 360-671-9024 [www.sonotech-inc.com](http://www.sonotech-inc.com)

February 27, 2004

Bellingham, WA, -- In January of 2004, Sonotech, Inc., manufacturer of ultrasonic couplants for nondestructive testing, launched an upgraded website that delivers the latest in NDT ultrasonic couplant information. The updated website offers straightforward navigation and access to detailed couplant information, MSDS, Data Sheets, and easy on-line ordering. You'll find everything you need to meet your couplant requirements. Visit the Sonotech website at [www.sonotech-inc.com](http://www.sonotech-inc.com).

# Northwest News and Notes

American Society of



A Publication of the Pacific Northwest Section of ASNT  
Volume 47, Issue 7

page 4

Nondestructive Testing  
March 2004

## Section Web Pages

### ASNT Section

[Alaska Section](#)  
[Central Florida Section](#)  
[Central Savannah River Area Section](#)  
[Charlotte, North Carolina Section](#)  
[Chattanooga, Tennessee Section](#)  
[Chicago, Illinois Section](#)  
[Colorado Section](#)  
[Golden Gate Section](#)  
[Hawaii Section](#)  
[Houston, Texas Section](#)

### ASNT Section

[Lewis & Clark Section](#)  
[Metro New York - Northern New Jersey Section](#)  
[Mowhawk-Hudson Section](#)  
[New Orleans Section](#)  
[North Atlantic Section](#)  
[Oklahoma Section](#)  
[Pacific Northwest Section](#)  
[Pittsburgh, Pennsylvania Section](#)  
[San Diego, California Section](#)  
[South Texas Section](#)

## WEB LINKS

Nondestructive Testing Management Association (NDTMA) ..... <http://www.ndtma.org>  
Center for Nondestructive Evaluation  
at Iowa State University ..... <http://www.cnde.iastate.edu/Default.htm>  
Personnel for Quality and Nondestructive Testing, Inc (PQNNT) ..... <http://www.pqndt.com/>  
Sonotech, Inc. .... <http://www.sonotech-inc.com/>  
Inspectionjobs.com ..... <http://www.inspectionjobs.com/>  
NDT Mall ..... <http://www.NDT-Mall.com/>  
ASNT Job Market..... <http://www.asnt.org/marketplace/jobs.htm>  
NDT at Ridgewater College ..... <http://www.ndt-hutch.com>  
Business Communications Company (Stay up to date on new technology)  
..... <http://www.buscom.com/letters/ndtpromo/ndtpromo.html>  
NDT Resource Center ..... <http://www.ndt-ed.org>  
ASME, local chapter ..... <http://www.asme.org/sections/westernwa/>  
ASM, local chapter ..... <http://www.asm-pugetsound.org/>  
AWS, local chapter ..... <http://aws.org/sections/pugetsound/startpage.htm>  
If you have a favorite site related to nondestructive testing please [submit it](#).

## MEETING DATES

Below is a list of meeting dates, topics and speakers. Meeting date is the second Thursday of the month unless otherwise noted. In case of last minute changes be sure to check the section website at <http://www.asntpnws.org/>.

**Future Meetings are on the second Thurs. of each month unless noted otherwise.**

<b>Date</b>	<b>Topic, Speaker, Company</b>
Sept. 8 <sup>th</sup>	NDT in South America, Jim Pellicer, The Boeing Company
Oct. 9 <sup>th</sup>	Acoustic Emission Basics, Peter Don, Physical Acoustics
Nov. 20 <sup>th</sup>	High Energy Applications of RT in Homeland Security, Dave Hall, L & W Research AGFA
Dec. 11 <sup>th</sup>	Christmas Party
Jan. 8 <sup>th</sup>	Industry tour to AMEC
Feb. 5 <sup>th</sup>	NDT Expo at the Museum of Flight
March 20 <sup>th</sup>	Radiation Safety Refresher Seminar
April 1 <sup>st</sup>	Joint meeting with AWS, NDE
May 13 <sup>th</sup>	UT Applications & Elections
June	Spring Social/Annual Picnic
July 11 <sup>th</sup>	Annual Golf Tournament & Executive Board meeting
August	Executive Board meeting

© Cartoonbank.com



*"Can you hang on a sec? I think I just took another picture of my ear."*

# Northwest News and Notes

American Society of



A Publication of the Pacific Northwest Section of ASNT

Volume 47, Issue 7

page 5

Nondestructive Testing  
March 2004

## MORE SECTION NEWS

The [section web site](#) contains two surveys and a member database. A [membership survey](#) is about general section operations and meeting dates. An [educational survey](#) asks for your input on which educational topics are best suited for our membership. Please take a few minutes to complete these surveys to provide input for the board. They do get looked at so your input is important in deciding which direction the section travels.

## MEMBERSHIP DATABASE

Also located on the section web site. Keep your information up to date in order to get the latest newsletter and other information.

## MEMBERSHIP RENEWAL

For renewals within 6 months of expiration use the form at

<http://www.asnt.org/membersonly/forms/individmrenew.html>

If your membership expired more than 6 months ago, please use the form at

<http://www.asnt.org/membership/forms/individualmema.html>.

## WELCOME NEW OR RENEWED MEMBERS

Dr Donald A Bender, Mr. Carsten C Nelson, Mr. David Lykken, Mr. Donald Colberg, Mr. Doug Mellor, Mr. James D Kronewitter, Mr. James E Cox, Mr. Jason Lund, Mr. Jim C Reid, Mr. John Bangsund, Mr. John K Kirchhofer, Mr. Michael D Gould, Mr. Pete P Torelli, Mr. R Aaron Falk, Mr. Rick A Ingram, Mr. Robert Baleisis, Mr. Steven V Rush, Mr. Tom R Moore

## PAST EVENTS

February 5th 2004. NDT EXPO was located at the Museum of Flight, 9404 E. Marginal Way South, Seattle, WA 98108. A HUGE success! Nearly 100 guests and exhibitors attended to view the latest in NDT equipment. Exhibitors included American NDT, AMEC, CMOS X-Ray, Envision Products, GE Inspection Technologies, Hytec Industries, Inspectek, L & W Research, MPM Products, NDT Engineering, Olympus, RD Tech, Staveley, Uniwest, Xactex, and Yxlon. A buffet of chicken satay, muffins, chips, soft drinks and coffee, chicken goronzola, mixed vegetables and mixed fruit. Those that took a break from the EXPO visited the Great Gallery to view the SR-71, Mercury 'Freedom 7' space capsule, Sputnik 1, or the Red Barn to view the origins of The Boeing Company & home to Greg 'Pappy' Boynton in 1937. A hearty thank you to the organizers of this event goes out to the EXPO committee members, Ward Fong, Dave Hall, Lynn Graham, and Bob Swisher for a well organized event. The names of all attendees were gathered in the guest book for the year-end cash drawing. The 30 dollar door prize is being contributed to an accumulative pot that has the name of attendees at each meeting entered. So the more meetings you attend the better your chances are at winning the pot at the end of the year. (\$30 x 8 = \$240!. If we have more than 8 meetings the pot grows that much more. Better odds than the lottery!). Anyone interested in assisting any committee, please contact a board member.

## YEAR BOOK

Member names and addresses are a yearbook requirement. Unless the address of the member is specifically authorized for inclusion it will not be published. In preparation for the 2004-2005 section yearbook a request is being made for inclusion of your address in the yearbook. If you do not wish your address published, do nothing. If you do send a message authorizing your address publication to [yearbook@asntpnws.org](mailto:yearbook@asntpnws.org). If you are interested in serving on the yearbook committee please use the Member Survey form on the section web page at <http://www.asntpnws.org/> or contact any board member.

The 2003-2004 YEARBOOK is available on the section web site at <http://www.asntpnws.org/newsletters>

## AWARDS

**Mark Marlow** of **Caliber Inspection** has been nominated for Technician of the Year.

**Jim Pellicer** of **The Boeing Company** has been nominated for Fellow.

Message from the President: "I'd like to thank those of you who were involved in this process and gave your time to prepare these great packages. I'd also like to again congratulate the nominees and let them know that whether they are selected or not, the section appreciates their service and professionalism and considers them both winners!" Congratulations on your nomination, it is well deserved!

If you have a nominee for an award please contact the awards chairman (John DeBoo), a section officer or leave a message to [awards@asntpnws.org](mailto:awards@asntpnws.org) or complete the survey on the section web page <http://www.asntpnws.org/>

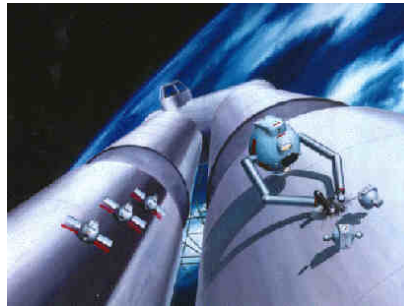


## NDT INDUSTRY NEWS

reprinted from NASA Langley Research Center Nondestructive Evaluation Sciences Branch

### Autonomous NDE Agent

**Objectives:** The NASA plan for aerospace transportation in the long term relies substantially upon reusable launch vehicles (RLVs) which are capable of rapid turnaround between flights. Whether manned or unmanned, these vehicles will have strong requirements for structural integrity assurance, and by their very nature will contain advanced materials and structural concepts which present extremely difficult inspection challenges. be long-mission-duration aerospace stations and lunar or planetary heavily on structural integrity assurance. monitoring of structural integrity can play integrated vehicle health management it should be recognized that IVHM doctor supplements the initial advanced technology tests before finally some potentially life-threatening health have a suite of supplemental available to provide the additional obtained from IVHM, which will enable critical decisions regarding continuation of a mission, taking a vehicle out of service for repair, and so forth. It is the objective of this research to lay the groundwork for the development of these supplemental NDE tools. The suite of tools covers a broad range of measurement technologies and of deployment manifestations. NDE systems will be required which are portable and transportable so that they can be taken to a vehicle out on the launch pad or landing strip. These could be carried by man or truck or even by small rotorcraft or flapping vehicles. Applications for orbiting vehicles and structures may require small, autonomous free-flyers which can maneuver around the target and conduct structural inspections utilizing multiple NDE techniques. The technology concept is not limited to low Earth orbital missions, but also embraces planetary missions and extraterrestrial ground based structures, with corollary applications for aeronautical and Earth-based structures. Swarms of small inspection agents could work in concert with swarms of repair agents to address minor structural problems. The concept is far out, and will require advances in many technologies to bring it to reality.



In addition to these vehicles, there promises to structures, such as Earth-orbiting space exploration structures, which will also rely Although it has been realized that continuous a critical role for mission assurance, and (IVHM) has become an accepted requirement, systems will have limitations. Just as a medical examination of a patient with additional diagnosing and recommending treatment for condition, mission controllers should expect to nondestructive evaluation (NDE) tools structural health information beyond that

**Approach:** The approach is to develop, in parallel, a number of enabling technologies to be integrated into a prototype device. The technologies include (but are not limited to): miniaturization and space-hardening of NDE sensors and systems; development of a mini-vehicle with propulsion and control systems compatible with close-tolerance maneuvering near another vehicle; miniaturized manipulation and placement devices for NDE sensors; autonomous acquisition, processing, and interpretation of NDE data; and technologies related to integration of these components into an autonomous Inspection Agent. The NESB focus will be on NDE sensors and systems and establishing inspection mission parameters. A major portion of the first year will involve the building of an inter-organization team, within LaRC and other NASA Centers, and to develop a more detailed technology development roadmap. As technology develops, much of it will be demonstrated on aircraft platforms on Earth, providing spin-off sub-applications for aeronautics.

#### Customers:

- Inherently Reliable Systems Program.

#### Recent Accomplishments:

- Design begun for miniaturized thermal inspection system.
- Design begun for LabVIEW-based ultrasonic software as basis for development of autonomous ultrasonic inspection algorithms.

#### Benefits/Payoffs:

- Improved user-friendliness by placing the "PhD in the box" to provide results rather than raw data.
- Efficiency of inspection by reducing scanning time.

#### Status:

- On schedule.

#### Future Work:

- 06/2003: Demonstrate miniaturized NDE measurement system.
- 09/2005: Demonstrate autonomous data interpretation and multi-technology data fusion.
- 09/2006: Autonomous NDE system ready for on-orbit demonstration of free-flying fully-autonomous Inspection Agent.

#### Key Facilities:

- NDE Labs: LaRC

#### Tech POC:

Dr. Patrick H. Johnston  
(757) 864-4966 (LaRC)

email: [p.h.johnston@larc.nasa.gov](mailto:p.h.johnston@larc.nasa.gov)



## A Seminar on Radiation Safety

Saturday, March 20, 2004

Mountaineers Club

### Objective

The objective of this seminar is to provide the radiographer with eight hours of refresher information designed to help reduce over-exposure, the risk of over-exposure, and provide safety officers and managers with a refresher course on the subject. This course is designed to comply with the radiation safety refresher training requirements of industry and each participant will be provided a certificate of attendance upon completion of the seminar.

### Subjects Covered Include:

Necessity for a Seminar on Radiation Safety; Radiation Equipment; Effect of Radiation Exposure; Government Radiation Regulations; Fundamentals of Radiation Safety; Radiation Detection Equipment; and Transportation Requirements. Speakers have included people from the State of Washington DOH Radiation Control Division, AEA, The Boeing Company, Pacific Northwest Laboratories, Fluor Hanford, CSI-Radiation Safety Academy, University of Washington, ICN Dosimetry and Ft. Lewis.

---

### Agenda

7:30-8:00 A.M.	Registration and coffee service	
8:00-8:15 A.M.	Welcome and introduction Chairman Pacific Northwest Section - ASNT	Speaker: Mr. Dave Hall
8:15-9:00 A.M.	Review of Radiation Safety Principles for Industrial Radiography	Speaker: Mr. Dave Odegard
9:00-9:45 A.M.	Biological Effects of Radiation	Speaker: Mr. Bruce Busby
9:45-10:00 A.M.	coffee break	Sports Bloopers 1
10:00-11:00 A.M.	Biological Effects of Radiation and RisksI	Speaker: Mr. Bruce Busby
11:00-12:00 P.M.	Radiation Protection and Safety for Radiographers Fluor Hanford ALARA Center	Speaker: Mr. Larry Waggoner
12:00-1:00 P.M.	Lunch	Sports Bloopers 2
1:00-1:45 P.M.	Revisions to WAC 246, updates on temporary job site notification, personal exposure and general information	Speaker: Anine Grumbles Washington State Department of Health, Office of Radiation Protection
1:45-2:45 P.M.	Tools to counter Nuclear Terrorism Equipment and Devices for emergency and first responders	Speaker: Michelle Johnson, CHP Battelle, Pacific Northwest National Laboratories
2:45-3:00 P.M.	coffee break & soft drinks	Sports Bloopers 3
3:00-4:00 P.M.	Transportation of Radioactive Material	Speaker: USDOT RSPA
4:00 P.M.	End of Program - Certificate of attendance distributed	



## RADIATION SAFETY REFRESHER SEMINAR REGISTRATION FORM

Registrant(s): \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Work Phone: \_\_\_\_\_ Home Phone \_\_\_\_\_

Fax Email: \_\_\_\_\_

Check No.: \_\_\_\_\_

### Mail to

Emery E. Roberts  
1807 S. 118 #202  
Seattle, WA 98168

### Group Rates

No. of participants	Register by 3/19/04	Register after 3/19/04
1	\$85	\$95
2	\$80	\$85
3-5	\$75	\$80
6-10	\$70	\$75
11-15	\$65	\$70
16-20	\$60	\$65
20+	\$55	\$60

### When:

7:30 AM - 4:00 PM  
March 20, 2004

### Where:

Mountaineers Headquarters  
300 Third Ave. West  
Seattle, WA 98119

## Radiation Safety Refresher Seminar - Mountaineers Bag Lunch Menu

All sandwiches include Tim's Chips, Whole Fruit, Beverage, Homemade Cookie and Condiments  
The luncheon menu will consist of a choice of one of the items below.

### SANDWICHES

TURKEY SANDWICH  
HAM SANDWICH  
ROAST BEEF SANDWICH  
EGG SALAD SANDWICH  
VEGETABLE SANDWICH



### WRAPS

SANTE FE WRAP  
RANCH WRAP  
VEG WRAP  
CURRY WRAP



### SALADS

CHICKEN CAESAR  
SALMON CAESAR  
GREEK SALAD  
ASIAN SALAD  
NORTHWEST SALAD



Please make your choice when registering

## PRESIDENT'S POINTS

Second quarter point total is 5,280 for the first half of the year out of a possible 12,500 for the year.

## NEWSLETTER ADDRESS LABEL

The first line of the address label contains the member number followed by the expiration date of membership for that number.