

# Northwest News and Notes

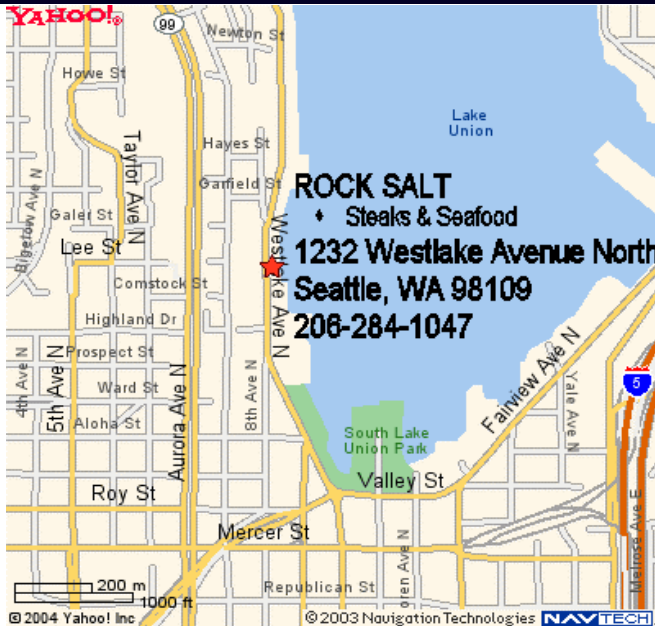
American Society of



A Publication of the Pacific Northwest Section of ASNT  
Volume 47, Issue 8

page 1

Nondestructive Testing  
April 2004



Take the Mercer St/Seattle Center exit. Turn right on Fairview. Turn Left at stoplight. Turn right on to Westlake. Turn right on Third Ave West. Rock Salt and parking about 6 blocks North on right.

## APRIL MEETING

Joint Meeting with [AWS](#)

**Topic:**

DIGITAL INNOVATIONS IN GAMMA AND X-RAY IMAGING

**Speaker:**

John A. Pursley, founder of Envision

**Date:**

Thursday, April 1, 2004

**Times:**

SOCIAL 5:45-6:45 PM

DINNER 6:45-7:45 PM

PROGRAM 7:45-8:45 PM

**Dinner:**

**\$25**, Beef or Salmon, [RSVP](#) secretary

**Location:**

Rock Salt

1232 Westlake Avenue North

Seattle, WA 98109

(206) 284-1047 Business line

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 [Dave Hall](#)

Your advertisement could be in this newsletter. Contact [Dave Hall](#) regarding rates.



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

RETURN REQUESTED

Mailing label



## Section Officers

For term June 1, 2003 to May 31, 2004

### Chairperson

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

### 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.

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.

### SPEAKER BACKGROUND

*Envision*

PRODUCT DESIGN

Beginning in 1993, Envision Product Design has created digital innovations in gamma and x-ray imaging along with intelligent robotic crawlers and manipulators. In the oil industry in Alaska, hundreds of miles of pipelines have been inspected with MagSteer™ crawlers and OpenVision™ real-time imaging systems, operating year-around in one of the most difficult environments on earth. The use of Envision's corrosion inspection equipment has resulted in savings of millions of dollars to the petroleum industry, and significant protection for Alaska's arctic environment.

In January 2000, Envision announced the first in a series of x-ray imaging products based on **CMOS** (complementary metal oxide silicon) sensors. The underlying technology for these products was developed and patented by NASA's Jet Propulsion Lab in 1995. These CMOS-based NDT systems are exclusive to Envision and provide the highest resolution available in digital x-ray.

In March 2003, Envision completed its 4<sup>th</sup> generation EnvisionScan™ technology. These digital x-ray systems provide the industry's most robust and highest resolution imaging, in formats ranging from 3" up to 72", by any length desired. Most importantly, these systems utilize unique off-axis detection that can survive extended radiation energy from 20Kv up to 450Kv, with a special model capable of surviving up to 10 Mev from linear accelerators. Real-time image scrolling is also now available with the EnvisionScan™ system for on-line quality or security applications.

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## OTHER EVENTS – 2004

- March 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).
- JUNE 7-8 **International Workshop on Electromagnetic Nondestructive Evaluation (ENDE 2004)**  
East Lansing, Michigan <http://www.egr.msu.edu/apps/ende2004/>
- JUNE 19-24, 2005 **The Third US-Japan Symposium on Advancing Applications and Capabilities in NDE**  
The Third US-Japan Symposium on Advancing Applications and Capabilities in NDE (JSNDI) will be held in Maui, Hawaii, 19-24 June 2005. <http://www.irrsp.net/events/conferences/jsndi05/abstracts.pdf>
- JUL 11-15, 2005 **International Conference on Textures of Materials - ICOTOM 14**  
Leuven, Belgium <http://www.icotom14.com>
- JULY 25-29 **2004 ASME/JSME Pressure Vessels and Piping Division Conference**, Hyatt Regency La Jolla at Aventine, San Diego, CA <http://www.asmeconferences.org/pvp2004/>
- 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 29-SEP 2 **12th International Conference on Experimental Mechanics**  
Politecnico di Bari, Italy <http://www.icem12.poliba.it>
- AUG 30 - SEP 3 **16th World Conference on Nondestructive Testing**, Montreal, Canada,  
<http://www.wcndt2004.com>
- SEP 8-10 **1st International Conference "From Scientific Computing to Computational Engineering"**  
Athens, Greece <http://ic-scce.upatras.gr/>
- 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.

## PRESIDENT'S POINTS

The Pacific Northwest Section should have a current point total of 7,380 points to date 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.

## Elections are coming

Who you would like to represent the section? Nominations are being accepted by Section officers or board members and will be voted on at the May meeting. Please contact the nominee to verify that he/she is willing to accept the nomination. Generally officers move up the chairs. Nominations are open for Chairman, Vice-Chairman, Secretary, Treasurer, and three directors (each serving a 2 year term of office).



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## 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/>  
Inspection jobs.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
<b>April 1<sup>st</sup></b>	<b>Joint meeting with AWS, Radiographic Technology</b>
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

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## 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.ihtml>

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

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

## 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

The annual Radiation Safety Refresher seminar took place at the Mountaineers Club in Seattle, WA on March 20, 2004. Twenty-eight radiographers, managers, and Radiation Safety Officers from nine Pacific Northwest firms attended this event. In addition members of the Seattle Fire Department attended to strengthen their knowledge of radiation and tools used to counter nuclear terrorism. Speakers were Mr. Dave Odegard from Cascade Technologies, Mr. Bruce Busby of Fred Hutchinson Cancer Research Center, Mr. Larry Waggoner from Flour Hanford ALARA Center, Mrs. Michelle Johnson from Batelle Pacific Northwest National Laboratories and Mrs. Anine Grumbles from the State of Washington Department of Health, Division of Radiation Protection gave excellent presentations on the basics of radiation, Biological Effects and Risks associated with radiation, tools for radiographers, security of exposure devices and tools to counter nuclear terrorism. Thirty-two attendees enjoyed a buffet lunch of sandwiches, ceasar salads, soft drinks, and fresh fruit. The seminar adjourned in the afternoon in sufficient time for all to enjoy the sunshine and make tee times and tennis-court dates. Thank you to all who attended and especially to the speakers for making this event a success.

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.

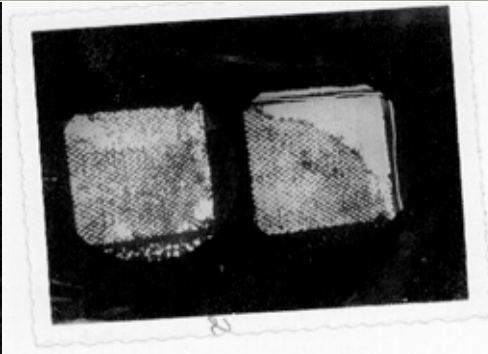
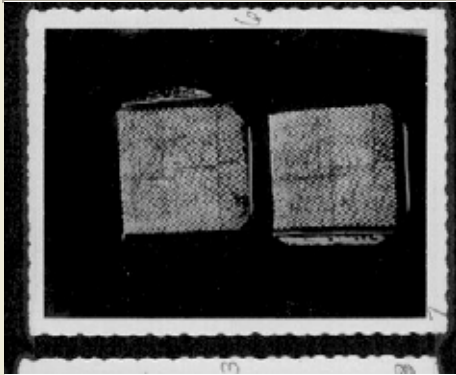
Message from the President: "I'd like to thank those of you who were involved in this process and gave your time to prepare these great packages. I'd also like to again congratulate the nominees and let them know that whether they are selected or not, the section appreciates their service and professionalism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

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## NDT INDUSTRY NEWS

### Ultrasonic C-Scan Inspection- an American Innovation in 1956



These Ultrasonic C-Scan images are the VERY FIRST ever created by *anyone- anywhere*. The year was 1956 in Paramount, California at the Automation Instruments Power Plant Inspection Division test lab. Cal Kammerer was the Ultrasonic technician working with equipment developed by Lee Furon, Nat Jeffras and Don Modispacher. It seems almost a turnabout in technology as we have gone from a CRT- to paper recordings- back to a CRT. Present day C-Scan Images are recorded on Computer CRT- whereas these early images were also recorded on a CRT- the Hughes Memotron tube, then photographed to document the results. The Memotron was basically an early design of storage tube technology, originally designed for radar applications. These C-Scan recordings were made using immersion, pulse echo at a high frequency to determine unbonds within the brazed honeycomb. As most people know- this honeycomb structure went on to become a vital and integral part of modern aircraft structural design.



Here is the first C-Scan "system"- the Hughes Memotron, camera and pulser/receiver units are shown in the background of this photo and the immersion bridge/tank located on the right.



Both of these instruments were the first american ultrasonic flaw detectors. On the left is a Sperry Reflectoscope and on the right the Automation Instruments 424. Just imagine hauling one of these "Portable" Flaw Detectors around!!!. Yes, these were used *both* in the lab and taken on jobsites everywhere!