

Northwest News and Notes

American Society of



A Publication of the Pacific Northwest Section of ASNT
Volume 48, Issue 6 page 1

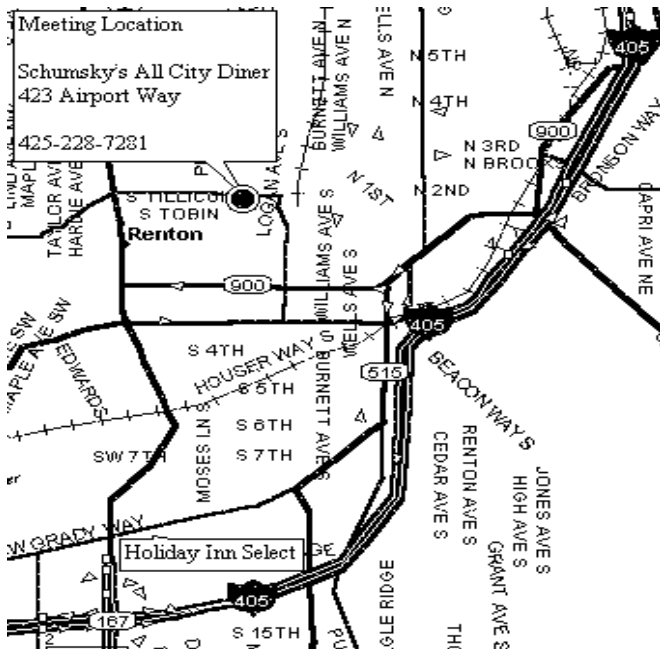
Nondestructive Testing
January 2005

JANUARY MEETING

TOPIC: Unusual Eddy Current Applications
SPEAKER: **Dr. William C.L. Shih,**
President
PRI Research & Development Corp.
Torrance, CA
DATE: January 13, 2005
DINNER: **\$15.00** dinner is Beef, Salmon or Chicken
TIMES: BOARD 5:00-5:45 PM
SOCIAL 5:45-6:15 PM
DINNER 6:15-7:00 PM
PROGRAM 7:00-8:00 PM
LOCATION: Schumsky's All City Diner
423 Airport Way
Renton, WA
(425) 228-7281

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 [Bill Meade](#).

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



From I-405 south or north, exit at Rainier Ave., go north on Rainier Ave. to Airport Way and turn right. Go about 4 blocks, Diner is on the right.



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

RETURN REQUESTED

Mailing label



Section Officers

For term June 1, 2004 to May 31, 2005

Chairperson

William Meade
The Boeing Company
Work Number: 206-655-0016

Vice Chair

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

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

Treasurer

Lynn Graham
Home Number:

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Dave Hall
L & W Research

Tom Davis
HD Laboratories

James Bittner
NDT Engineers

Directors – One Year

Bob Swisher
Caliber Inspection

Dale Morgan
Caliber Inspection

Mark Marlow
Caliber Inspection

Flynn Spears
ICSENDT

TJ Peraza
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Dave Hall
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Clive Graham
Western Pneumatic Tube

Education Chairperson

Jim Pellicer
The Boeing Company

Section Web Site

<http://www.asntpnws.org>

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 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.

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.

My Mother Taught Me

- My mother taught me **RELIGION**. "You better pray that will come out of the carpet."
- My mother taught me **LOGIC**. "Because I said so, that's why."
- My mother taught me about the science of **OSMOSIS**. "Shut your mouth and eat your meal."
- My mother taught me about **WEATHER**. "This room of yours looks as if a tornado went through it."
- My mother taught me about **HYPOCRISY**. "If I told you once, I've told you a million times: Don't exaggerate!"
- My mother taught me about **BEHAVIOR MODIFICATION**. "Stop acting like your father!"
- My mother taught me about **ANTICIPATION**. "Just wait until we get home."
- My mother taught me **GENETICS**. "You're just like your father."
- My mother taught me **WISDOM**. "When you get to be my age, you'll understand."
- My mother taught me about **JUSTICE**. "One day you'll have kids, and I hope they turn out just like you!"

Submitted by: Bill Fenner



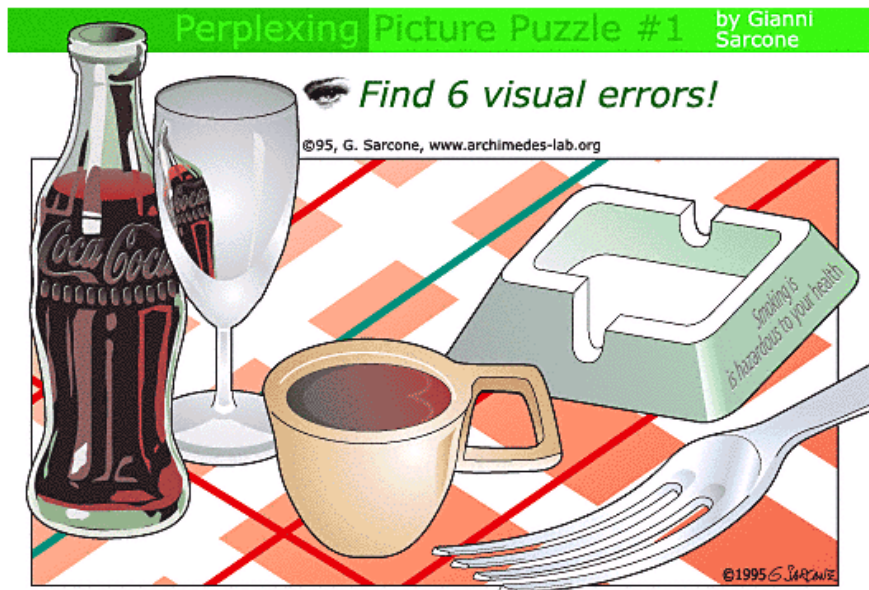
OTHER EVENTS

2004

- DEC 12-15 **Smart Materials, Nano- and Microsmart Systems**, University of New South Wales, Sydney, Australia.
DEC 9-11 **Robust Performance through NDE**, Pune, India

2005

- JAN 16-20 **Electronic Imaging 2005**, San Jose, California.
JAN 22-27 **Lasers and Applications in Science and Engineering**, San Jose, California.
FEB 1-3 **Fifth International Conference on Composite Science and Technology**, Sharjah, United Arab Emirates.
FEB 1-3 **First International Conference on Modeling, Simulation and Applied Optimization**, Sharjah, United Arab Emirates.
FEB 7-9 **Advances in Production and Processing of Aluminum**, Bahrain.
FEB 13-17 **TMS Annual Meeting and Exhibition**, San Francisco, California.
FEB 14-16 **NDTMA Annual Conference**, Las Vegas, NV.
FEB 26-MAR 4 **SPIE 49th Annual Meeting**, San Jose, California.
FEB 28-MAR 2 **International Conference on ISO 9000**, Walt Disney World Resort, Orlando, Florida.
MAR 14-18 **14th Annual Research Symposium**, Albuquerque, New Mexico.
APR 5-7 **Aerospace Testing**, Hamburg, Germany
MAY 17-20 **NDT Expo 2005**, Moscow, Russia
JUN 1-4 **International Chemical and Petroleum Industry Inspection Technology (ICPIIT) IX Conference**, Houston, Texas
JUN 20-24 **The Third US-Japan Symposium on Advancing Applications and Capabilities in NDE** Maui, Hawaii.
JUL 31-AUG 5 **QNDE 2005**, Brunswick, Maine
OCT 17-21 **ASNT Fall Conference and Quality Testing Show 2005**, Columbus, Ohio
NOV 8,9,10 **Aerospace Testing Expo 2005 NORTH AMERICA**, Longbeach, CA



Answers to above puzzle on page 4



Speaker and Topic Information for January 13 Meeting at All City Diner

SPEAKER:

Dr. William C.L. Shih, President, PRI Research & Development Corp., Torrance, CA

Professional Education: BS, MS, PhD MIT

Brief outline of career (especially where of interest to audience):

Dr. Shih is the President and founder of PRI Research & Development Corp. (PRI) in 1980. He received his BS, MS and Ph.D. degrees at MIT from the Department of Aeronautics and Astronautics. Technically, his areas of interest have covered a range of topics including molecular beams, reentry physics, aerodynamics, wind tunnel testing, and electronics. More recently, he and his very capable engineers have brought the MOI technology from concept to a well-respected product in the NDT community.

Dr. Shih and PRI have received four awards including three for a commercialized product. He won the U.S. SBA Administrator's Award for Excellence. The MOI has won the R & D magazine award for one of the 100 most significant technical products and was chosen as one of the 25 best new products in photonics technology. The Technology 2004 Award for Excellence in Technology Transfer was presented to PRI in 1994 from the Technology Utilization Foundation.

Title of my talk:

"Magneto-Optic Imaging (MOI): An Update"

Abstract of talk:

Magneto-optic imaging technology has made major contributions to the nondestructive inspection (NDI) of aging aircraft for cracking and corrosion (<http://www.primd.com>). The Magneto-Optic Imager (MOI) images cracks and corrosion in real-time. Major aircraft manufacturers have approved the technology for use. The U. S. Air Force and Navy, major airlines and maintenance facilities are using the MOI for inspection of their aircraft. Procedures are available for the inspection for fatigue cracks in B-52s, KC-135s, C-141s, C-5s, P-3s, DC-10s, L1011s and all Boeing aircraft among others. It is also being used in inspections for hidden corrosion in various aircraft skins and coverings such as de-icing heating tape.

The MOI uses a combination of an innovative eddy current induction method to induce magnetic fields in defects and magneto-optics to form images of the magnetic fields associated with the defects. These field images closely resemble the defects themselves. This talk will present a brief description of the instrument and new applications in aircraft inspection and hidden bar code reading.

How does or can this information and its treatment affect members of the audience?

Gives information on current applications of the MOI technology.

What's wrong?	
1. The Coca-Cola (Coca- Coca) logo on the bottle.	4. The ashtray has an impossible geometric shape.
2. The top of the glass stands in front of the bottle while the stem is behind.	5. The handle of the coffee cup.
3. The writing on the ashtray contains "is" twice: <i>Smoking is is hazardous to your health.</i>	6. The teeth of the fork (are there 3 or 4 teeth? Maybe both!)

Answers to puzzle on page 3



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 President's Award Program is based on point values assigned to various management or operation categories. The categories and point values are established by section activities which are considered of our Society. These categories are require considerable involvement by your dates are established by publication or There is a maximum of 12,500 points to be July 1 to June 30. The accumulated point quarterly basis and on an annual basis by the reported by achievement levels as follows:



**2003-2004
President's
Points Award
trophy**

10,749 Points, Bronze: 6,250 to 8,499 Points, 3,999 Points. Each section placing in the top achievement level and a ribbon showing the banner. Point summaries will be provided to and SOC Executive Committee on a quarterly will publish the annual achievement levels of all sections for the previous year.

the SOC Awards Division and are reflective of important to the section and appropriate to the goals appropriate to all sizes of sections and, of course, section leadership to complete. Many of the due regional/national level committee meeting dates. earned in this program. The program period is from values for each section will be reported on a Headquarters staff. The annual summary will be Gold: 10,750 to 12,500 Points, Silver: 8,500 to

Copper: 4,000 to 6,249 Points, No Award: 0 to four levels will receive a letter of recognition of its year and achievement level for attachment to its the section leadership, SOC Regional Directors basis. The October issue of *Materials Evaluation*

The Pacific Northwest section is currently in 6th place with 2,150 points

NEWSLETTER ADDRESS LABEL

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

ASNT Section News is Available Online!

Stay up-to-date with your section and see what other sections are doing. Visit www.asnt.org on the first of each month for the latest section news from around the world. Section News is available now. Visit <http://www.asnt.org/localsections/sectionnews/sectionnews.htm>

ASNT E-mail

ASNT uses E-mail to inform you about the events, publications, certification and occurrences within the Society and the nondestructive testing industry. To remove your email address from future ASNT emails, please call 800-222-2768 or email mrapp@asnt.org and put unsubscribe in the subject line. You may also contact ASNT at 1711 Arlingate Lane, P.O. Box 28518, Columbus, Ohio 43228.

Section Chat Room

An enhanced chat room is available to all members on the section home page. Currently available public rooms are Main (for general discussion), Board of Directors and Officers. Any group with a Pacific Northwest member may use the chat rooms. Email webmaster@asntpnws.org and a room can be set up for your group and if you want it private leave the names of participants and a password of 8 characters for the group.

(Trivia from <http://www.coolquiz.com/>)

Fact of the Day

Antarctica is 98% ice, 2% barren rock. The average thickness of the ice sheet is 7,200 feet; this amounts to 90% of all the ice and 70% of all the fresh water in the world. If the ice cap were to melt, the sea level would rise by an average of 230 feet.

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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](#)
[Oklahoma 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](#)
[Crawfish \(New Orleans\) Section](#)
[North Atlantic Section](#)
[North Texas Section](#)
[Pacific Northwest Section](#)
[Pittsburgh, Pennsylvania Section](#)
[San Diego, California Section](#)
[South Texas Section](#)
[Iowa Section](#)

WEB LINKS

World Spec Group of Companies <http://www.worldspec.org/index.php?id=1>
Nondestructive Testing Management Association (NDTMA) <http://www.ndtma.org>
Center for Nondestructive Evaluation at Iowa State University <http://www.cnde.iastate.edu/Default.htm>
Center for Nondestructive Evaluation & Applied Technology at John Hopkins University
..... <http://www.cnde.com/>
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>
NDT Resource Center <http://www.ndt-ed.org>
NDTcentral <http://www.ndtcentral.com>
Rigg-Access <http://www.rigg-access.com/frames/welcome.asp>
If you have a favorite site related to nondestructive testing please [submit it](#).

MEETING DATES For 2004-2005

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 Thursday of each month unless noted otherwise.

Date	Topic, Speaker, Company
September 23, 2004	"Unusual Eddy Current Inspections" by Jim Pellicer of Boeing
October 14, 2004	Bond Testing in Aerospace Composites by Pat Spencer, Zetec, Issaquah
November 11, 2004	Transient Thermographic Technique for NDI of Aerospace Composites by Rob McCullough, Quest Integrated
December 9, 2004	Christmas Party at Jillian's Billiard Parlor with Santa
January 13, 2005	Furnace Tube Inspection Methods by Phil Bondurant, Quest Integrated
February 10, 2005	Joint Meeting with AWS, "Magneto-Optic Imaging (MOI)", Current Update by Bill Shih, Physical Research, Inc.
March 10, 2005	NADCAP Audit Procedures and Findings, TBD
April 14, 2005	Cleaning Film by Dave Odegard of Cascadetekk, Nominations of Officers
May 12, 2005	Homeland Security, Dave Hall of L&W Research, Elections
June 9, 2005	Spring Social or Picnic
July 14, 2005	Annual ASNT-PNWS Golf Scramble Tournament
August 11, 2005	Board of Directors 2005-2006 planning 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

Mr. Jeffrey R Kollgaard, Mr. Michael T Worby, Mr. Robert K Swisher, Mr. Randolph M Williams, Mr. Randy N Petersen, Mr. Ting Bong Au Yong, Mr. Patrick R Pack, Mr. John V Loscheider, Mr. Manuel R Nittritz, Mr. Dave Preble, Mr. Richard J Jacob, Mr. Kane M Mordaunt, Mr. Frank Brennan, Mr. Jim Everard, Mr. Justin H Walsh, Mr. Gary E Georgeson

PAST EVENTS

Christmas Party - December 9, 2004

Eleven members, their spouses and eight small adults attended the Pacific Northwest section Christmas Party on December 9th, 2004. The party was held at Jillian's Billiard Parlor and featured a buffet dinner of Honey Cured Ham, Garlic mashed potatoes, Steamed Vegetable Medley. As a meeting incentive Caliber Inspection has generously offered to pay dinner costs for any of their employees who attend a section meeting. All attendees signed the guest book for the year-end cash drawing. The thirty-dollar door prize is being contributed to an accumulative pot that has the name of section 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. In order to win this accumulative prize the winner must be a section member and present at the drawing. If we have more than 8 meetings the pot grows that much more. So 8 meetings at \$30 added for each meeting is \$240 minimum at the end of section year drawing. Those are better odds than the Washington State lottery, which are 1 chance in 13,983,816 of winning. Gold sponsors for the party were GE Inspection Technologies, MPM Products and American NDT. Silver sponsors were Caliber Inspection, NDT Engineering and Panametrics/RD Tech, Gift sponsors were Inspection Technologies and Longview Inspection. The next section meeting will be January 13, 2005 at Schumsky's All City Diner in Renton. Eight small adults and seven spouses enjoyed a gift from Santa. Our own Dale Morgan of Caliber Inspection represented Santa. Those who attended endured heavy rain and snarled traffic to enjoy one of the better parties in the past several years. This was the annual Christmas party for the Pacific Northwest section of ASNT saw friends and family enjoy each other's company during a hectic holiday season.

FUTURE MEETINGS

The names of all attendees will be 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!). Must be a local section member and present to win.

ANYONE INTERESTED IN ASSISTING A 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. 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 2004-2005 YEARBOOK is available on the section web site at <http://www.asntpnws.org/newsletters>

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AWARDS

Jim Pellicer of **The Boeing Company** has joined the ASNT Fellow, Class of 2004. His award was presented at the ASNT Fall Conference in Las Vegas November 17, 2004.

Coming in March

RADIOGRAPHY LEVEL II Educational Course

Learn how to use radioactive material to image objects for information and quality assurance/quality control. This course will satisfy ASNT SNT-TC-1A requirements.

RADIATION SAFETY REFRESHER seminar

Learn about the personal risks and benefits of using radioactive material. This seminar will satisfy yearly radiation refresher requirements of industry and regulatory authorities.