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Doing the Wave Can Simplify your Corrosion Assessment

Approximately 20 NACE members attended the November 10 meeting of the Portland Local Section at Coast to Coast in Aurora, OR. President/CEO Jerry Baccari hosted the meeting which included short presentations and demonstrations of non-destructive technologies. Sr. Vice President/ Level 3 NDT Inspector Wesley Weber gave the majority of the presentation. The primary technique discussed, Guided Wave Ultrasonic Testing, (GWUT) uses low frequency guided (circular) waves to detect metal loss in metallic structures and pinpoint that loss as a distance from the detector and circumferentially. The technique, originally developed for detecting under-insulation corrosion, can be used to examine up to 100 ft of structure above ground and 25-50 ft below ground. Another NDT instrument demonstrated was the Novaprobe. This corrosion probe is inserted into the ground near a metallic structure (pipeline, tank, etc) and be used to characterize the corrosivity of the soil



GWUT being used below ground.

near your structure. It can measure soil resistivity using a four point Wenner Probe arrangement, soil redox potential, pipe to soil potential, temperature, and corrosion rate. President Jerry stated "There is no magic tool that can do it all" with respect to NDT. But with tools like those mentioned above, Corrosion Engineers can battle corrosion more efficiently and economically.

ASM cordially invites all NACE members
to the ASM DECEMBER MEETING

DATE: Dec. 12, 2005 **TIME:** 6:00 pm
PLACE: Century Hotel 8185 SW Tualatin-Sherwood Rd Tualatin, OR
SPEAKER: Mr. Steve Sparkowich Corrosion Lab Mgr
ATI Wah Chang Albany, OR
PRESENTATION: Titanium Grade 36: A New Grade of Titanium with Unique
Mechanical Properties and Superior Corrosion Resistance
Cost: \$20.00 per Guest (Cash & Checks payable to ASM International)



Details and directions on Page2

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ASM cordially invites all NACE members to their meeting

Directions to Century Hotel 8185 SW Tualatin-Sherwood Rd. Tualatin, OR
Tel: 503 692-3600. Use I-5 exit 289. Turn westbound onto Nyberg Rd for 0.4 miles.
Nyberg Rd becomes Tualatin-Sherwood Td about two blocks west of the freeway. The
hotel is on the north side of the street, across from Fred Meyer and east of Boones
Ferry Rd.

**Menu: appetizers, non-alcoholic beverages, salad, Main course (usually a choice of
steak, prime rib, chicken, or halibut), potato and dessert**

“Titanium Grade 36: A New Grade of Titanium with Unique Mechanical Properties and Superior Corrosion Resistance”

Current and proposed applications for Ti Grade 36 (i.e. Ti45Nb) in the aerospace, biomedical, and
mineral processing industries will be reviewed. The unique physical and mechanical properties of
this alloy will be covered, including data on its exceptionally low modulus. New data from the
Wah Chang Corrosion Lab will be presented on the superior performance of Ti Grade 36 versus
other corrosion resistant titanium alloys, with a focus on hot concentrated HCl, HBr, HI, and hot
brine environments. This technical program is custom designed for the curious metallurgist and
corrosion engineer.

Future NACE Portland Section Meetings

January 12, 2006 Tour of the Wilsonville Water Treatment Plant
February, 2006 Tube Forgings of America
March, 2006 XRF (x-ray florescent) portable metals element analyzers

Upcoming NACE Courses

January 25-27, 2006 The 53rd Annual Corrosion Control Course, The University of
Oklahoma Outreach, Norman, OK

Upcoming Corrosion Events

January 5-7, 2006 SIEO (South Idaho Eastern Oregon)/NACE Winter Symposium,
Sun Valley, ID
March 12-16, 2006 Corrosion 2006, San Diego, CA
May 2-4, 2006 40th Annual Western States Corrosion Seminar, California State
Polytechnic University, Pomona, CA

We wish you all a happy and safe holiday season!



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Awards Corner

Your Awards Chairman needs YOUR help in bringing recognition back to Local Section members. Please nominate someone (even yourself) or some company that you think has done some outstanding work. Deadlines are January 6 for Western Area NACE awards (eg, Engineer of the Year, Stratfull Service Award, Company of the Year, Ted Harrington Scholarship) and June 2 for NACE International awards (eg, Technical Achievement, Distinguished Service, Fellow, Distinguished Company, etc). Check out the following link for more information on NACE Association awards and then contact Bernie at covino@alrc.doe.gov with your ideas on awards.

<http://www.nace.org/nace/content/awards/summaryindex.asp>

Membership Corner ~ Invite a Friend to Join NACE ~

Individual membership \$130 for one year, \$250 for two years.

Applications available at:

<http://www.nace.org/nace/content/Membership/ContentMembership.asp>

Access to the NACE International Member's Only Website that includes:

Unlimited downloads of Current NACE Standards

Unlimited downloads of Current NACE technical reports

Unlimited downloads of NACE conference papers six months old and older back to 1996

Access to K-NACE – interactive electronic books and COR*SUR database

Preferred pricing on NACE conferences, seminars, training, and education courses.

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NACE career center – career planning and job posting service

Member pricing (up to 20% discounts) on NACE products

Materials Performance – free subscription

MP Online

Members-Only Bulletin Board – online technical discussion boards

News from NACE Portland Section Members

This is your e-newsletter. Send news about your activities, photographs of activities, and/or unique corrosion related phenomena to share with the NACE Portland section members.

Send your contributions to:

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