

MEE

MATERIALS EVALUATION

MARCH 2013

VOL. 71 • NO. 3

PROMOTING THE PROFESSION
AND TECHNOLOGIES OF NDT

ASNT 22nd RESEARCH SYMPOSIUM

Memphis, Tennessee

18–21 March

Hit/Miss Data

Air Void
Distribution in
Concrete

Guided Wave
Propagation
in Pipe

NDT Buyers Guide
Information

THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING

FEATURE

- 322 Hit/Miss Data**
Statistical Analysis of Hit/Miss Data
Jeremy S. Knopp and Li Zeng



ASNT IN MEMPHIS

- 312 ASNT 22nd Research Symposium**
320 Program and Information

FELLOWSHIP AWARD PAPERS

- 359 Advanced Ultrasonic Technology for Air Void Distribution in Concrete**

Ye Sun, Chen-Yuan Chung, Xiong (Bill) Yu, Zhen Liu, Yan Liu and Junliang Tao

- 369 Guided Wave Propagation and Focusing in Multi-layer Pipe with Viscoelastic Coating and Infinite Soil Media**

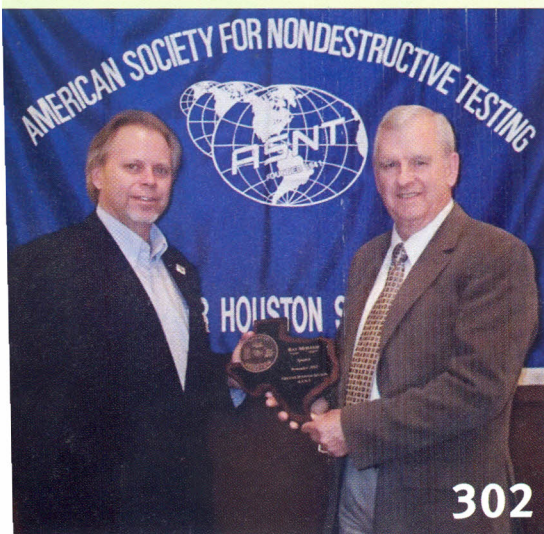
Jia (Jerry) Hua, Jing Mu and Joseph L. Rose



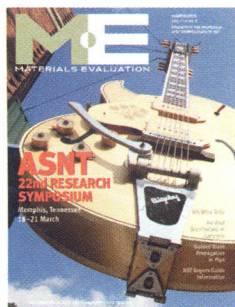
ME departments

ASNT SCOPE

- 302 Section News
- 303 Society Notes
- 308 Awards and Honors
- 310 In Memoriam
- 316 New ASNT Certificate Holders



302



IN THIS ISSUE

ASNT 22nd Research Symposium

Photo credit: Tennessee Department of Tourist Development

PERSPECTIVE

301 Editor's Letter

"The online system will automate the initial steps of publication in *M.E.* to make them easier for our authors and associate technical editors"

WHAT'S NEW

330 Product Gallery

331 Spotlight:
Electromagnetic Testing

332 NDT Web Sightings

334 New Media

Time of Flight Diffraction Calculator, *Handbook of Measurement in Science and Engineering, Two Volume Set*, Industrial Tech Guide App

337 Industry News

New American Welding Society Global Headquarters, Carl Zeiss Acquires HGV Vosseler, Test Equipment Distributors Acquires Precision Images, Trinity Steel Acquires Triton Vessel Manufacture

341 New Patents



331

RESOURCES

315 Contact ASNT

318 Exam Schedule

336 Buyer's Guide Information

342 Corporate Partners

347 Calendar

379 Employment Service

379 Service Directory

388 Coming Attractions

388 Ad Index

Digital *Materials Evaluation* content is also available online at www.asnt.org/materialsevaluation/access.

Subscription Questions?

ASNT membership includes a one-year subscription to *Materials Evaluation*. Institutions, or others who wish to have a subscription without becoming an ASNT member, may simply subscribe to the journal through ASNT. To become a member or subscribe to the journal, contact ASNT at (800) 222-2768 or see www.asnt.org/membership/membership.htm.

Back Issues & Article Copies

Back issues of *Materials Evaluation* are available for purchase. See www.asnt.org/shop/periodicals.ihtml for details, or call (800) 222-2768. Copies of individual articles may also be obtained through ASNT: contact the librarian at (800) 222-2768 for more information.

Comments & Suggestions

Letters to the editor are welcome at any time. Letters that are timely and significant may be published in an issue of *Materials Evaluation*. Not all letters are suitable for publication, and ASNT makes no claim regarding publication of a given letter. Letters should be sent to Editor Nathaniel Moes at nmoes@asnt.org.