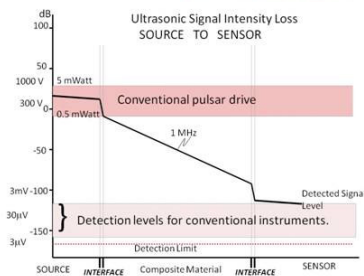
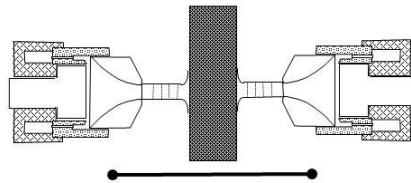
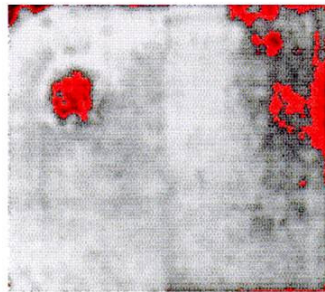
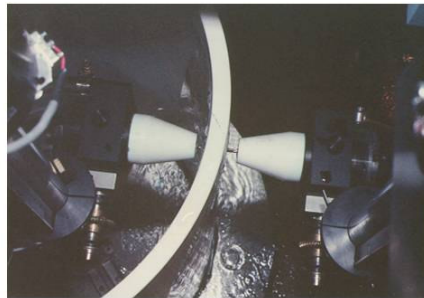


Ultrasonics for Composite Testing

- Includes information not found in books and extensive coverage of practical experience.
- Seminar designed to technically untangle this complex subject and is formatted to comprehend the issues in a short time.
- Presentations cover all mechanical wave methods and extensive examples of practical application data.
- Explains why composites can not be tested based on metals procedures.

Baltimore, MD
MAY 24-25th, 2012



Materials & Sensors Technologies, Inc.
798 Cromwell Park Drive, Suite C
Glen Burnie, MD 21061
Phone: 410-766-5002, Fax: 410-766-5009, info@mast-inc.com

ULTRASONICS FOR COMPOSITES TESTING

With increased use of composite materials in critical structural applications, it is more important than ever to independently assure structural integrity. Ultrasonic NDT has extensive application for composite materials. Traditional ultrasonic NDT methods are inappropriate and often misleading when applied to composite materials. In advanced technology applications such as aerospace, and with industrial emphasis on economics and safety, it is critical that engineers, designers and NDT personnel have a thorough working knowledge of advanced ultrasonic NDT technology. This Seminar covers all mechanical wave methods including acoustic emission, resonance, tap test, A, B, and C scans, as well as advanced ultrasonic methods such as guided waves testing, transducer arrays, and materials properties measurements.

WHO SHOULD ATTEND?

The Seminar is designed for inspectors, designers, engineers, managers and new users that desire technically sound working concepts in application of ultrasonic testing to composite materials including assessment of defects, composite damage and materials properties.

SEMINAR CONTENT

This is an open technology review and is based on technical literature, industrial and academic experience of the instructor collected from over 35 years of composite work. This Seminar includes information that is not found in books and extensive coverage of practical experience.

This Seminar is designed to technically untangle this complex subject, and is presented in a way to comprehend the issues in a relatively short time.

A comparison between traditional approaches and composite materials requirement is utilized to guide the application concepts and interpretation issues. The course covers all mechanical wave methods and extensive examples of practical applications illustrated with experimental data.

Classroom participation is expected during open question periods, active involvement of the class attendees with specific questions is encouraged.

SEMINAR FORMAT

This is a two day Seminar on Ultrasonics for Composite Testing. This Seminar is limited in number of participants, thus providing opportunities for individual attention and in-depth discussion of the issues. All Sessions will be held at the seminar location--Country Inn & Suites, Linthicum.

Wednesday: May 23, 2012

6-8pm Registration Reception

Thursday: May 24, 2012

8 am Session 1

12 pm Lunch break, provided

1-5 pm Session 2

7-9 pm Evening Session

*“The Future of NDT in Composites” –
Presentation on effects of defects and tradeoffs between post inspection, in process monitoring, or in-situ in-service health monitoring.*

Friday: May 25, 2012

8 am Session 3

12 pm Lunch break, provided

1-5 pm Session 4 (Includes tour of the laboratories)

SEMINAR LOCATION

Country Inn & Suites by Carlson, BWI Airport

1717 West Nursery Road

Linthicum, MD 21090

Phone: 443-577-1036

Fax: 443-577-1037

SEMINAR FEE

Registration for the seminar is \$985 per person by May 4, 2012, and \$1085 per person after May 4, 2011. The seminar fee includes two full-day sessions, one evening session, one lab session, seminar materials and CD, opening registration reception and two lunch breaks.

Be sure to register early, as space is limited.

REGISTRATION

To register, mail the attached registration form accompanied by check, company PO or credit card information.

MAST Inc.

798 Cromwell Park Drive, Suite C

Glen Burnie, MD 21061

You may fax registration form with purchase order or credit card information to 410-766-5009

REGISTRATION CONFIRMATION

You will receive a confirmation letter, receipt of payment, and details of Seminar after confirmed registration.

CANCELLATION POLICY

Confirmed registrations cancelled before May 11, 2012 will receive a refund less a \$100 processing charge. No registration refunds are available after May 11, 2012. Cancellations must be in writing to info@mast-inc.com or fax to 410-766-5009.

MAST Inc. reserves the right to change and/or cancel the scheduled seminar for any reason, with full refund of registration. Should that become necessary, MAST Inc. will notify all registrants at least two weeks prior to the start date.

ACCOMMODATIONS

MAST Inc. has arranged for preferred rate for Seminar attendees.

Country Inn & Suites, Carlson, BWI Airport 443-577-1036
1717 West Nursery Road, Linthicum, MD 21090

Room rate for Country Inn & Suites, Carlson is \$99(MAST Reference code **110916**).

Free shuttle bus transportation is available between the hotel and the airport. Upon arrival at BWI, contact the shuttle bus at 443-577-1036.

SEMINAR QUESTIONS & ANSWER OPPORTUNITIES

Because of the unique size and classroom setting of this Seminar, there will be ample opportunities for questions. Take a moment to let us know what in-depth questions you may want answered during the seminar. There is a section for questions on the attached Registration Form, or email us directly at info@mast-inc.com. Include your name and company.

INSTRUCTOR

B. Boro Djordjevic (BS 73, MSE 78, Ph.D. 79), President, Materials and Sensors Technologies Inc.

Dr. Djordjevic has over 35 years of experience in industry and academia. He has served as Technical Director, Manager or Principal Investigator on many large programs encompassing: NDE, advanced composites, advanced materials processing, surface mount technology, packaging chip-on-board, embedded sensors, and space launch vehicle and air/space systems. He has worked as a consultant to industry, NASA, DoD, Air Force, DARPA, Navy, and has served on National Materials Advisory Board committees. Dr. Djordjevic has authored over 100 technical publications, seven books and five patents; has presented numerous technical talks throughout USA and the world. He organized and coordinated meetings of professional societies and international scientific conferences, and served as chairman or president of many technical committees and organizations. He is listed in Who's Who in the World and Who's Who in America.

Ultrasonics for Composite Testing

Registration Form

Name: _____
Title: _____
Company Name: _____
Address: _____
City: _____
State, Zip: _____
Email: _____
Phone: _____
Fax: _____
Payment amount: \$985 before May 4, 2012 \$1085 after May 4, 2012
Payment Method:

Mastercard	Visa	AmEx	Check
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Please check one
Acct. Holder's Name: _____
Credit Card #: _____ Exp. Date: _____
Charged Amount: \$ _____
Authorized Signature: _____ Verification Code: _____
Company PO No.: _____
COMPANY BILLING ADDRESS: _____

Phone: _____ FAX: _____ e-mail: _____

Specific Questions for Seminar Instructor:

Please mail or fax completed registration form to address below:

Materials & Sensors Technologies, Inc.

798 Cromwell Park Drive, Suite C
Glen Burnie, MD 21061
Phone: 410-766-5002
Fax: 410-766-5009
www.mast-inc.com

Hotel Reservation Form

Name: _____
Title: _____
Company Name: _____
Address: _____
City: _____
State, Zip: _____
Email: _____
Phone: _____
Fax: _____

*Reserve for:

Wednesday Night 5/23	Thursday Night 5/24	Friday Night 5/25

HOTEL: Country Inn & Suites, Carlson(\$99):
Payment Method:

Mastercard	Visa	Discover	Am Ex
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Please check one

Acct. Holder's Name: _____
Credit Card #: _____ Exp. Date: _____
Authorized Signature: _____ Verification Code: _____

Please mail or fax completed registration form to hotel address below:

Country Inn & Suites, Carlson

1717 West Nursery Road

Linthicum, MD 21090

443-577-1036, 443-577-1037 fax

MAST Inc. Code: 110916