



## Training Seminars

*In conjunction with the 2019 NDTMA Annual Conference*

### Tuesday, February 12, 2019

#### 1:00 PM **Digital Technology in Radiographic Testing**

to  
5:00 PM *Conducted by: Glen Chonko & Jim Neal, Fuji NDT Systems*

Digital Technology in Radiographic Testing has grown in recent years as a result of widespread acceptance in the Aerospace, Oil & Gas and Power Generation industries. The conversion from film to digital radiographic inspection is a big step, but it is only the beginning.

In this four-hour seminar Glen and Jim will discuss the conversion from film to digital radiography, current trends and the future as it relates to Digital Radiographic Testing and how it applies to your company. Additional topics include Computed Radiography, Digital Detector Arrays, Computed Tomography, Robotics, DICOM Film Digitization and Archive Solutions.

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### Friday, February 15, 2019

#### 8:00 AM **Shearography NDT**

to  
12:00 PM *Conducted by: John Newman and Flynn Spears, Laser Technology, Inc..*

With the large increased use of composite materials that are stronger, lighter and more cost effective in manufacturing markets such as Automotive, Aerospace, Medical, Space and Oil & Gas the need for better NDT technology is greater than ever. Laser Shearography is a proven, robust NDT method for the detection of impact damage, subsurface disbonds, delamination, porosity, wrinkled fibers, fiber bridging and the presence of foreign object damage (FOD).

Shearography is a full field, laser imaging technique capable of quantitative measurement of surface deformation as small as 2 nm. Combined with an engineered stress, both surface and subsurface anomalies are detected in near real-time. Shearography is currently in use on a wide range of aerospace programs for detecting subsurface disbonds, delaminations, fiber wrinkles, cracks as well as non-visible impact damage, embedded foreign material and changes in material properties due to exposure to heat, radiation or chemical attack. New improvements in image resolution and multi-camera imaging techniques have enabled production systems that can resolve porosity in solid carbon fiber laminates and image anomalies throughout the full thickness of laminate panels.

The Shearography NDT 4-hour seminar will cover the basic theory and applications for Laser Shearography as it applies to these market segments. Several different models of shearography instruments will be demonstrated.

***Seating is limited.***

***Advance registration is required (see other side).***

***These seminars are free for personnel from NDTMA member companies.***

***For non-NDTMA members, the fee is \$189.  
Non-members do NOT receive free registration for the conference.***



## Training Seminar Registration

Please register me for the following seminar(s).

\_\_\_ ***Digital Technology in Radiographic Testing, Tuesday, February 12***

\_\_\_ ***Shearography NDT, Friday, February 15***

*I understand the fee for each seminar is \$189 if my company is NOT a member of NDTMA.*

My company \_\_\_ is \_\_\_ is not a member of NDTMA.

Your Name \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone Number \_\_\_\_\_

E-Mail \_\_\_\_\_

Date \_\_\_\_\_ Amount enclosed \_\_\_\_\_ Check \_\_\_ Credit Card \_\_\_\_\_

Credit Card No. \_\_\_\_\_ Expiration Date \_\_\_\_/\_\_\_\_/\_\_\_\_ CCV \_\_\_\_\_

Circle: American Express    Visa    MasterCard

Authorized Signature \_\_\_\_\_

**Advance Registration is Required for Attendance**

**PLEASE USE ONE FORM FOR EACH PERSON ATTENDING**

**Fax to 321.250.7838**

**or email to: [gmoran@ndtma.org](mailto:gmoran@ndtma.org)**