Updated 9 March, 2008	Baldini Resource Associates, Inc.	COURSE NUMBER **MWB/LB-14**

High Speed Photography : Instrumentation Techniques & Analysis

Outline of topics covered:

- High Speed Photographic Cameras
- High Intensity Light Sources
- Techniques For Recording/Writing High Speed Events
- Velocity Measuring Techniques-High Speed Events
- Model Integrity And Orientation/Motion Analysis Techniques
- High Speed X-Ray Equipment Systems And Operation
- X-Ray Intensifying Screens, Films, Development And Analysis
- Hard & Soft X-Rays
- Methods Of Analysis For High Speed Photography And X-Rays
- Hall Streak Camera Systems
- Triggering Techniques For Photographic Events
- Laser Use And Other Types Of Illumination
- Light Sources And Their Limitations And Applications
- Detection Techniques And Limitations Of Each Type
- Spark Photography
- Beckman-Whitley/Cordin Type Camera Writing Operation And Uses
- Cameras, Rotating Prism And Other Types And Limitations
- Schlieren Photographic Approaches; Shadowgraph Interferometry
- Methods For Film Processing
- Applications Of High Speed Photography To Ballistics
- In-Bore And Out Of Bore Instrumentation
- Test And Evaluation Applications Of High Speed Photography
- Hardening Of Expensive Photographic And Other Equipment
- Laboratory And Range Safety Instructions For Delicate Equipment
- Safety In Use Of High Energy And Radar Equipment
- Proper Safety Instruction; Interlocks; Safety Equipment
- Standard Operating Procedures
- Precautions When Working With Explosives & Ballistic Malfunctions
- Related Optics; Video And Analysis
- Digital Imaging Techniques
- Computer Data Analysis And Data Reduction Approaches
- Film Enhancement Techniques And Processing

NOTE: *More than one point of view may cover a given topic. There will be some hands on experience, but that will not be the primary emphasis of this course.*

Course Description continued on next page

For information or registration, call
Lou Baldini - Baldini Resource Associates, Inc.
10 Barry Lane, Newton NJ 07860, USA
Phone 973-383-6090 or 973-383-6375 fax 973-579-9522

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OBJECTIVE & SCOPE

The emphasis for this High Speed Photographic Seminar will be to provide a sound basis of capability, operation and use of equipment to obtain visual stop action for high speed motion events. Other Instrumentation Techniques covered would include Ballistic and Explosive events,Missiles, as well as Laboratory polarized stress-strain analysis and other experiments. Triggering and Instrumentation Techniques will be discussed for obtaining Test and Evaluation information and data in the Ballistic Range Facilities as well in the Laboratory.

MATERIAL COVERED

High Speed Photographic and Visual Motion Capturing Data Collecting Equipment, including triggering, lighting, developing, set-up, measurement, digital imaging media and analysis and enhancing techniques, will be covered. Instrumentation and other areas related to data collection for Test and Evaluation will also be emphasized.

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