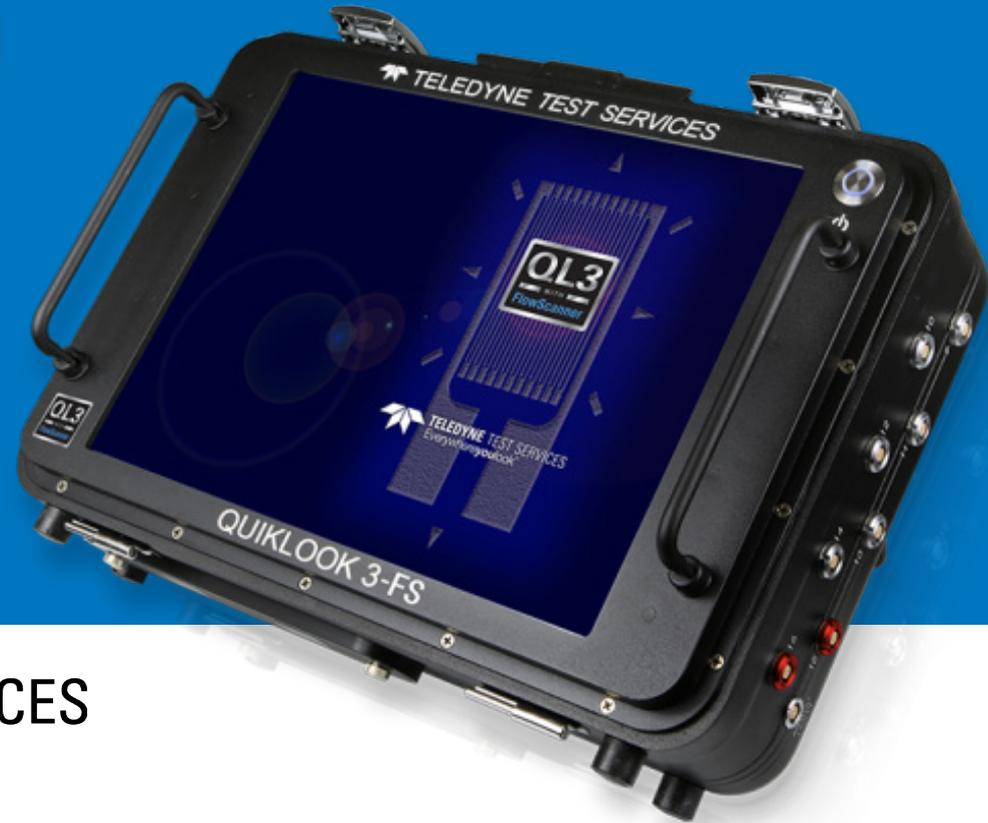


# Ninth Annual QUIKLOOK Users Group Meeting

Marion, MA  
August 19 & 20th, 2015

Hosted by:

Roger W. Masson  
Vice President and General Manager



**TELEDYNE TEST SERVICES**  
Everywhere you look™



## 9<sup>th</sup> Annual QUG Conference

QUIKLOOK USERS GROUP

August 19-20, 2015



### Day 1, Wednesday, August 19, 2015

**Location:** Tabor Academy,  
66 Spring Street, Marion, MA 02738

#### 8:00 - 8:30 - Registration / Continental Breakfast

#### 8:30 - 9:00 - Welcome & User Survey

- ✓ Team Introductions
- ✓ User Survey Request

HOST: **Roger Masson**  
HOST: **Joe Santangelo**

#### 9:00 - 9:30 - Teledyne / Emerson Partnership

- ✓ The Power of the Partnership

HOST : **Bill Fitzgerald**

#### 9:00 - 12:00 - QUIKLOOK Updates

- ✓ Hardware Updates
- ✓ Software Updates
- ✓ SW Error Notices
- ✓ Live Demonstration

HOST : **Michael Sullivan**  
HOST : **Eric Solla**

#### 12:00 - 1:00 - Lunch

#### 1:00 - 2:00 - Special Topics

- ✓ ASME Appendix 3 Overview
- ✓ ASME Appendix 4 Overview
- ✓ QL3-FS Remote Connections (RealVNC)

HOST: **Ted Neckowicz**  
HOST: **Bill Fitzgerald**  
HOST: **Eric Solla**

#### 2:00 - 3:00 - Design / Test Data Software

- ✓ Software Suite Integration
- ✓ MIDAS / MIDAS TEST Demo
- ✓ MIDAS WeakLink
- ✓ ACE 4.1 / ACE TEST

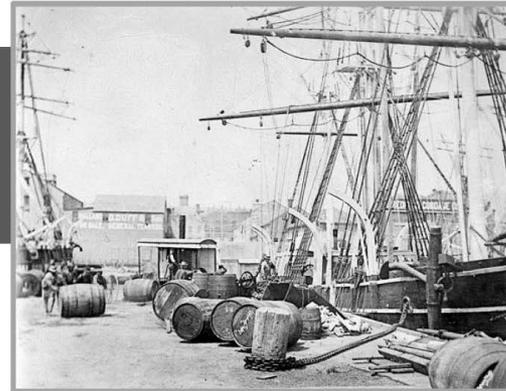
HOST: **Joe Santangelo**  
HOST: **Eric Solla**



## *New Bedford Whaling Museum*

New Bedford, Massachusetts

(Just a short walk from The Fairfield Inn)



**Date:** Wednesday, August 19, 2015  
**Location:** NBWM, 18 Johnny Cake Hill,  
New Bedford, MA 02740  
**Time:** 5:00 PM

The New Bedford Whaling Museum is a world-renowned museum that brings to life the rich history of the whaling industry and New Bedford.

- ✓ 5:00 pm - [Museum Walkthrough](#)  
Socialize among the Museum's many exhibits.
- ✓ 6:00 pm - [Cocktail Hour in the Logada Room](#)  
Enjoy your Cocktail Hour
- ✓ 6:50 pm - [Roger Masson, Vice President and General Manager of TTS](#)
- ✓ 7:00 pm - [Buffet Dinner served in The Jacobs Family Gallery](#)



Located in the heart of New Bedford Whaling National Historical Park, the Museum features interactive exhibits, including the world's largest whaling ship model; displays of fine and decorative arts; collections of cultural artifacts, rare antiquities, scrimshaw and logbooks; and five whale skeletons including the rare blue and northern right.

The Whaling Museum has an exclusive arrangement with Russell Morin Fine Catering - offering exquisite food and beverages and impeccable service.



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### Day 2, Thursday, August 20, 2015

**Location:** Tabor Academy,  
66 Spring Street, Marion, MA 02738

#### **8:00 - 8:30 - Continental Breakfast**

#### **8:30 - 9:00 - Quality Assurance Corner**

- ✓ QA Notices – Pressure Sensors
- ✓ TR-A100-57 – Safety Classification & Accuracies

#### **8:30 -12:00 - MIDAS Users Group (optional)\***

HOST: **Michael Sullivan**

#### **9:00 – 11:00 - Special Topics**

- ✓ China Utility Discussion
- ✓ QL TEDS Editor (Read / Write)

HOST: **Joe Santangelo**  
HOST: **Eric Solla**

#### **11:00 – 11:30 - Interpreting Anomalous Test Traces**

- ✓ TTS to provide typical anomalous traces
- ✓ Users to bring “unidentified” traces

HOST: **Joe Gomes**  
HOST: **Joe Santangelo**

#### **11:30 – 12:00 - User Topics**

- ✓ Open Discussion

HOST: **Joe Santangelo**

#### **12:00 – 1:00 – Lunch (with exceptional Chowda)**

#### **1:00 – 2:30 - Hands-on breakout sessions**

LOCATION: Teledyne Facility

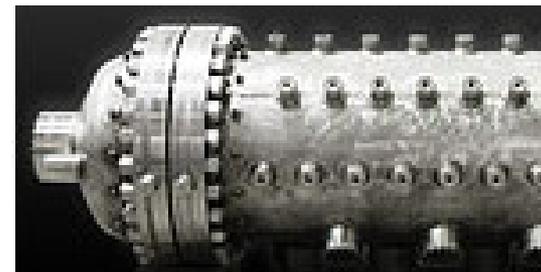
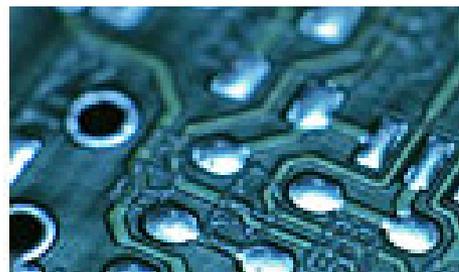
- ✓ AOV Tests Using QUIKLOOK 3
- ✓ MOV Tests Using QUIKLOOK 3
- ✓ Spring Pack Calibration Using QUIKLOOK & Spring Pack Calibration Stand
- ✓ Thread Cuts
- ✓ QSS Installation
- ✓ General Sensor Display
- ✓ Midas Users Group (continued) / \*Lyndon Hall (North)

## Instrumentation

## Digital Imaging

## Aerospace and Defense Electronics

## Engineered Systems



## LeCroy



## Test Services



## Lab & Field



## Process & Air Quality



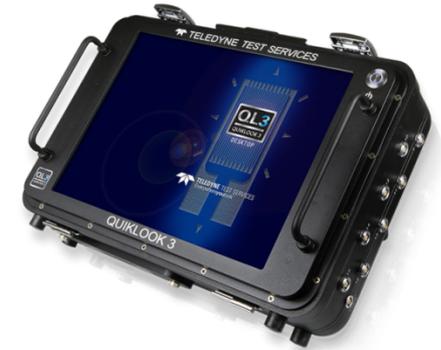
## Location

- Marion, Massachusetts
- La Gaude, France



## Business Focus

- Critical Valve Testing
- Strain Gage Based Sensors and Data Acquisition Systems
- Torque Sensors & Load Cells



## Key Markets



- Roger W. Masson - Vice President and General Manager
- R. Michael Sullivan - Director of Operations & Business Development
- Michael C. Richard - Senior Software Engineer
- Joe Santangelo - Marketing and Technical Director
- Eric A. Solla – QUIKLOOK Software Engineer
- Matthew J. Hanson - Software Engineer
- Richard J. Shannon - Quality Assurance Manager
- Joseph E. Gomes - Field Service Supervisor
- Maximo J. Allahua - AOV/MOV/Valve Diagnostic Tester
- Michael S. Laperriere - Jr. AOV/MOV/ Valve Technician
- John M. Stanwood - Product / Field Technician
- Jerry Madden - Product / Field Technician
- Steven Mitchell - Machinist / Field Technician
- Jason J. Haglund - Engineering and Operations Manager
- John M. Romanelli - Mechanical Engineer
- Ali Jameel - Electrical Engineer
- Lori A. Contant - Administrative Assistant





- Bill Fitzgerald – Fisher Consultant
- Jeff VonAhnen – FlowScanner™ Product Platform Manger
- Phil Nelson – FlowScanner™ Product Engineer





Joe Santangelo - Marketing and Technical Director

# Bill Fitzgerald

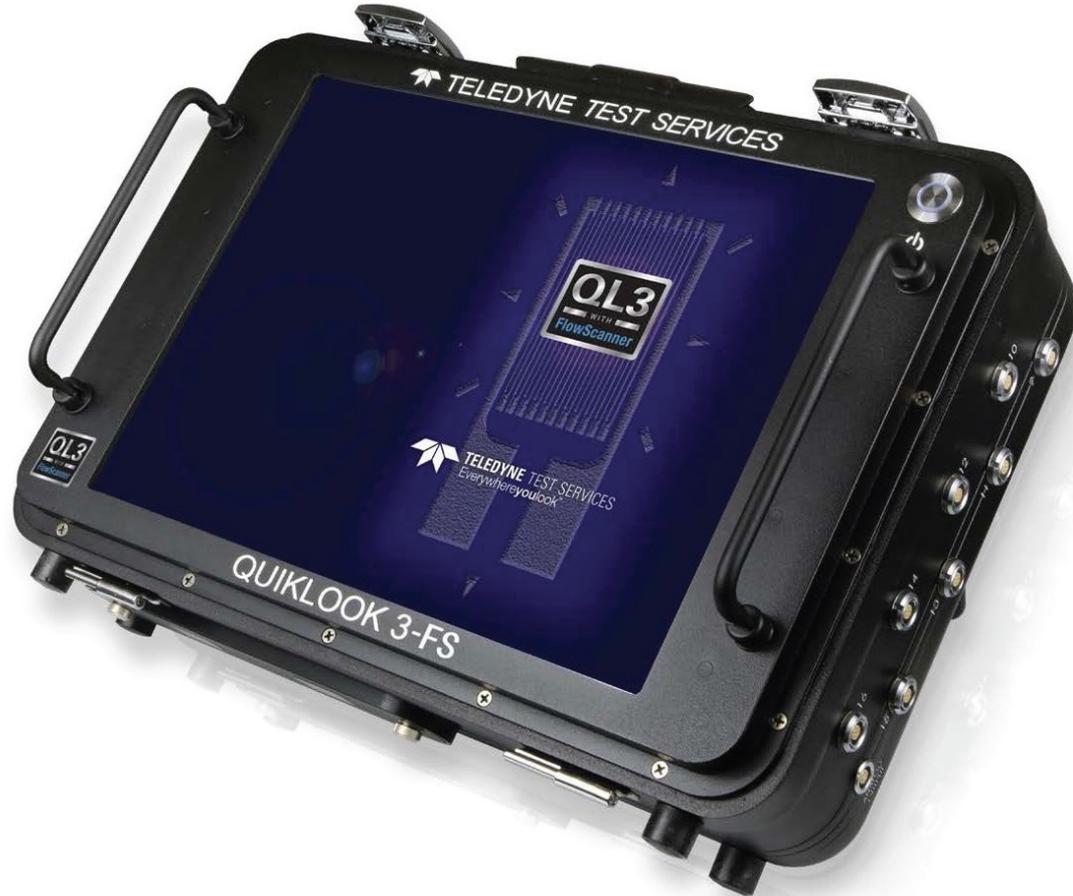
The Power of the Partnership  
TTS and Fisher Join forces in Valve Diagnostics



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- Presentation guidelines
- Who am I?
- Discussions began in early 2014 to build on the strengths of each organization
  - Deliver new platform for AOVs and MOVs
  - Featuring FlowScanner technology for AOV's
- Our goal: meeting new safety directives, while improving the effectiveness of the programs AND taking out cost

# The New Platform!-Quiklook3-FS



# What's been done?



- We have rolled the FlowScanner and Quicklook testing platforms together.
- Leverages
  - Teledyne's expertise in data acquisition, sensors, and MOV's
  - Emerson/Fisher's leadership on the AOV testing side
- MOV and AOV testing on one platform
- Adds digital encoders for travel, and no compromise on accuracy, uncertainties
- Flowscanner software takes full advantage of the Quiklook platform, but maintains a common look and feel with the old program
- If you use FlowScanner now, you'll easily transition to the new platform

# What are the advantages for us?



- We end up with a single hardware platform to manage and support.
- We bring the two supporting teams together on this single platform
- Fisher leverages TTS's expertise in torque and force sensors, and data acquisition,
- And Teledyne gets access to Flowscanner software, Fisher's extensive engineering and R&D resources, and unparalleled expertise in the operation of AOV's in the nuclear industry.

- It's much more than just a test system!
- Customers that engage the partnership get access to key resources that no one else has:
  - TTS: MOV expertise, torque and force sensors, expert staff with many years of experience testing and resolving issues with MOV's
  - Emerson/Fisher: AOV testing leadership, AOV engineering and testing resources, Capability to do root cause determination and removal, and dynamic testing
  - LeCroy (TTS parent)-brings world class data acquisition design and manufacture
  - Fisher Sales Network-application expertise, industry background, local presence
  - Fisher's Service network: AOV expertise, local testing, troubleshooting and repair

- You need to guarantee compliance with directives for safe operation of AOV's and MOV's while keeping costs to a minimum-App 3 and App 4
- The power of the partnership directly addresses that need :
  - The hardware and software have been optimized to reduce time in the field AND to reduce the amount of time required to analyze the results and generate reports-**YOU WILL TEST FASTER AND AVOID MISTAKES!**
    - Easy, office-based test set-up and preloaded valve information
    - Pop up warnings in software
    - Highly intuitive software
    - New bracketery
    - TEDS sensors
    - Correct issues after the fact
  - We'll continue to look for ways to optimize testing, since we use it ourselves
  - We don't just report the news-we can help you solve valve problems
  - Test facilities to address differences between static and dynamic testing
  - Direct links to margin software
  - You'll get more valves that pass!

# Features of the New QL3-FS platform



- One platform to test both AOV's and MOV's
- High flexibility in sampling rates, and greatly increased data storage capacity
- Easily decontaminated
- No compromise in accuracy, as encoder travel inputs added and pressure sensors linearized
- Plug and play sensor recognition, utilizing TEDS technology
- Backwards compatible with existing FlowScanner tests
- Built in PC with touchscreen to speed data entry and testing
- Hot swappable battery operation
- Optimized use of strain gage technology
- Updated user interface and graphics package to speed up testing and aid in data interpretation

Teledyne Test Systems

Harness the  
Power of the Partnership

**FlowScanner**

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AOV and MOV Compliance  
In a Single Platform

Experience

- ✓ Improved Accuracy
- ✓ Encoder Inputs
- ✓ Flexible Displays
- ✓ Improved Analysis and Reporting
- ✓ Solid Support

TELEDYNE LECROY  
Everywhereyoulook

**FISHER**

The advertisement is a vertical rectangular graphic with a white background and blue accents. At the top, it says "Teledyne Test Systems" in a serif font. Below that, the slogan "Harness the Power of the Partnership" is written in a sans-serif font. The "FlowScanner" logo is prominently displayed in the center, with a blue curved arrow pointing from the text to a photograph of the QL3-FS device. Below the device, the Teledyne Test Services logo is shown. The main headline "AOV and MOV Compliance In a Single Platform" is underlined. A section titled "Experience" lists five benefits with checkmarks. At the bottom, the Teledyne Lecroy logo and the Fisher logo are displayed side-by-side.

# Connections with TEDS sensors



- The Software is complete and in checking.
- Final step will be nuclear Verification and Validation, expected to be completed end of August.
- Hardware is done
- Product launch is slated for early September

# Any Questions?

## THANK YOU



**TELEDYNE**  
**TEST SERVICES**  
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