

A World of NDT Solutions

- Software & Products
- Services
- International

A leading global provider of proprietary technology enabled nondestructive testing (NDT) inspection solutions that ensures the integrity of industrial & public infrastructure

GREECE: The new Reform Agenda 2008

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Industry Needs



PCMS, LSI, ONLINE MONITORING, ROPE ACCESS

Our Solutions



Welcome

MISTRAS Group: Complete NDT Solutions

We are a leading global provider of proprietary, technology-based non-destructive testing ("NDT") solutions used to evaluate the structural integrity of industrial and public infrastructure. We combine the skill and experience of our certified technicians, engineers & scientists with our advanced software and other proprietary product offerings to deliver a comprehensive portfolio of solutions, ranging from routine to complex NDT inspections and plant asset integrity management. We serve a global customer base, primarily in the oil and gas, chemical, nuclear and other power generation, aerospace and defense, pharmaceutical, metal and metalworking and transportation industries. Through our approximately 1,500 employees in 46 offices across 15 countries, we provide our solutions to a diversified customer base of leading global corporations.

CLIENT SERVER

NEWS CENTER

June, 2008 -  Purdue University uses PocketAE to Diagnose Bone Fractures on Horses (8.25mb)

[more news...](#)

OUR HERITAGE

MISTRAS Group of North America:



SOFTWARE & PRODUCTS: Physical Acoustics (PAC), Vibra*Metrics (VM), Plant Condition Management Systems (PCMS), NDT Automation, RC&A Research, Thermtech-Infrared.

SERVICES: CONAM Inspection & Engineering Services, Quality Services Laboratories (QSL-Plus), Code Services, Caliber Inspection, Petroleum & Refractory Inspection, Alpha-Testing, Controlled Vibration Inc (CVI), Universal Testing, Integrated Technologies Inc (ITI), H&G Inspection, Gonzales Industrial X-ray, South Bay Inspection, EDGE Testing & Inspection, Nomad Inspection Services (MISTRAS Canada).

MISTRAS Group International:



INTERNATIONAL: Physical Acoustics Ltd (UK), Euro-Physical Acoustics SA (France), Nippon Physical Acoustics Ltd (Japan), Physical Acoustics of South America Ltda (Brazil), DIAPAC Ltd (Russia), Physical Acoustics Holland Ltd (Holland), ENVIROACOUSTICS ABEE (Greece), Physical Acoustics India Ltd (India), Physical Acoustics Beijing (China), KFA-Kramer Freher Adviesgroep (Holland).

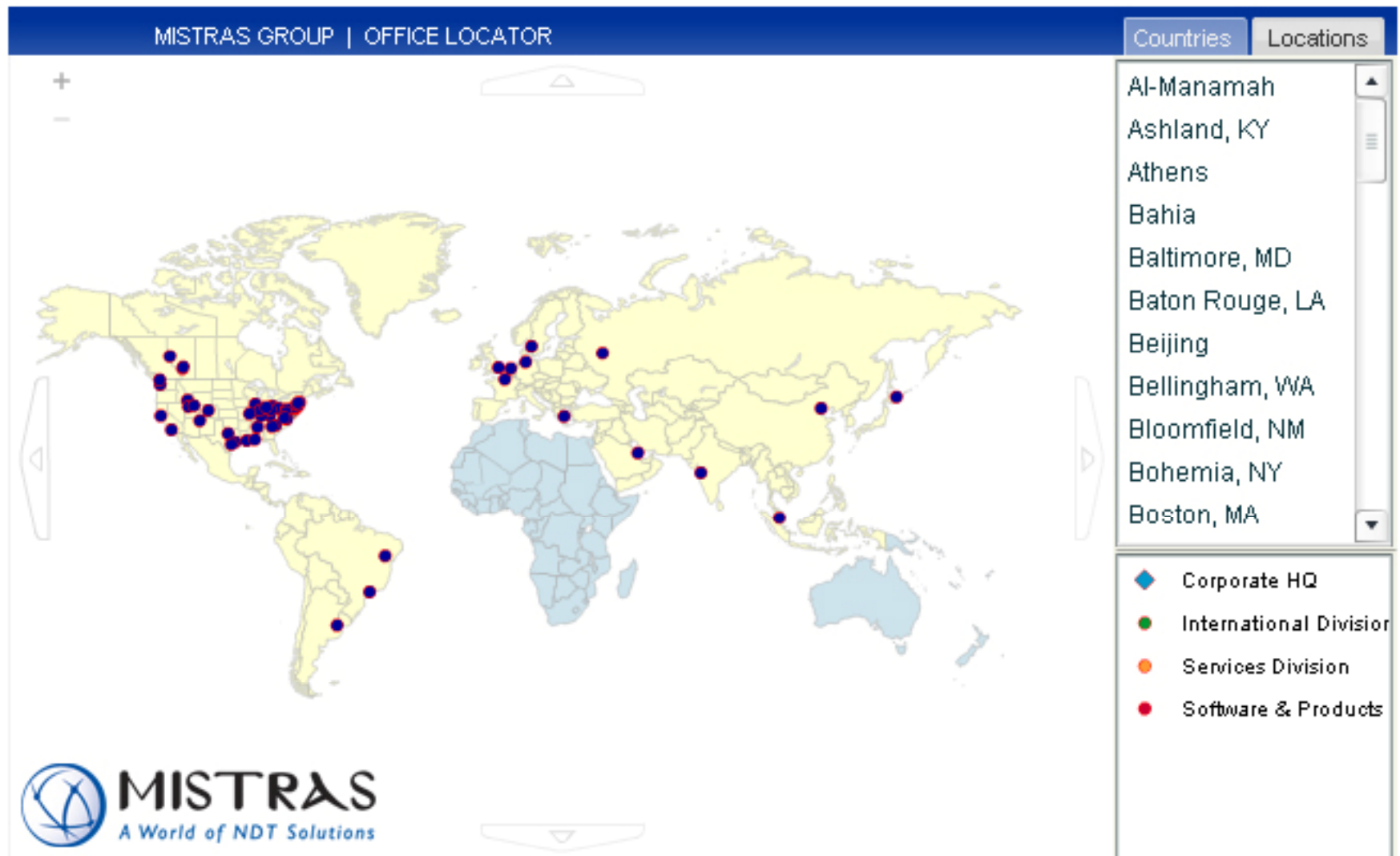
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 Canada	 Dutch	 German	 Japanese	 Russian	 U.K.

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...with more than 50-offices worldwide



A World of NDT Solutions



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We are Similar to the Medical Profession

Generalist

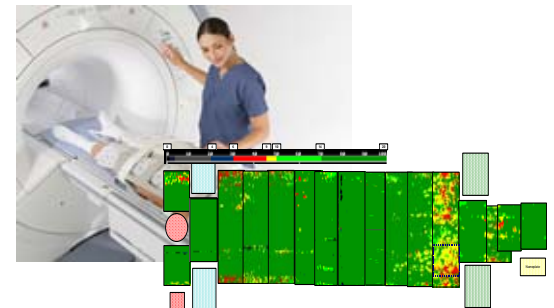
- Performs standard tests and checkups
- Broad knowledge base
- Experienced
- Good diagnostic skills
- Refers for additional testing and specialization

Highly Proficient Specialists

- Highly educated and trained
 - 25 PhD's
 - 49 Level III Engineers
- Research capabilities
- Variety of methodology and processes
- Applies latest technology and innovations



MISTRAS Combines “General Practitioners” and “Specialists” Under One Roof



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MISTRAS
A World of NDT Solutions

Our Value (or Alternative Value) Proposition



Airport Accident



Platform Collapse



Refinery Accident



Bridge Collapse

End Markets and Representative Customers

Aerospace & Defense



- Boeing
- Rolls Royce
- GE
- Lockheed

Automotive & Transportation



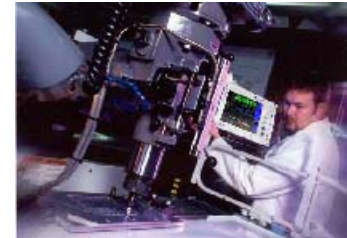
- General Motors
- Ford
- Toyota
- Volkswagon

Electric Power



- PS&G
- EDF Energy
- British Fuels
- Bechtel

Electronics



- Texas Instruments
- Intel
- Seagate
- IBM

Chemical



- DuPont
- BASF
- Dow
- Monsanto

Oil & Gas



- Exxon Mobil
- BP
- Shell
- Aramco

Primary Metals



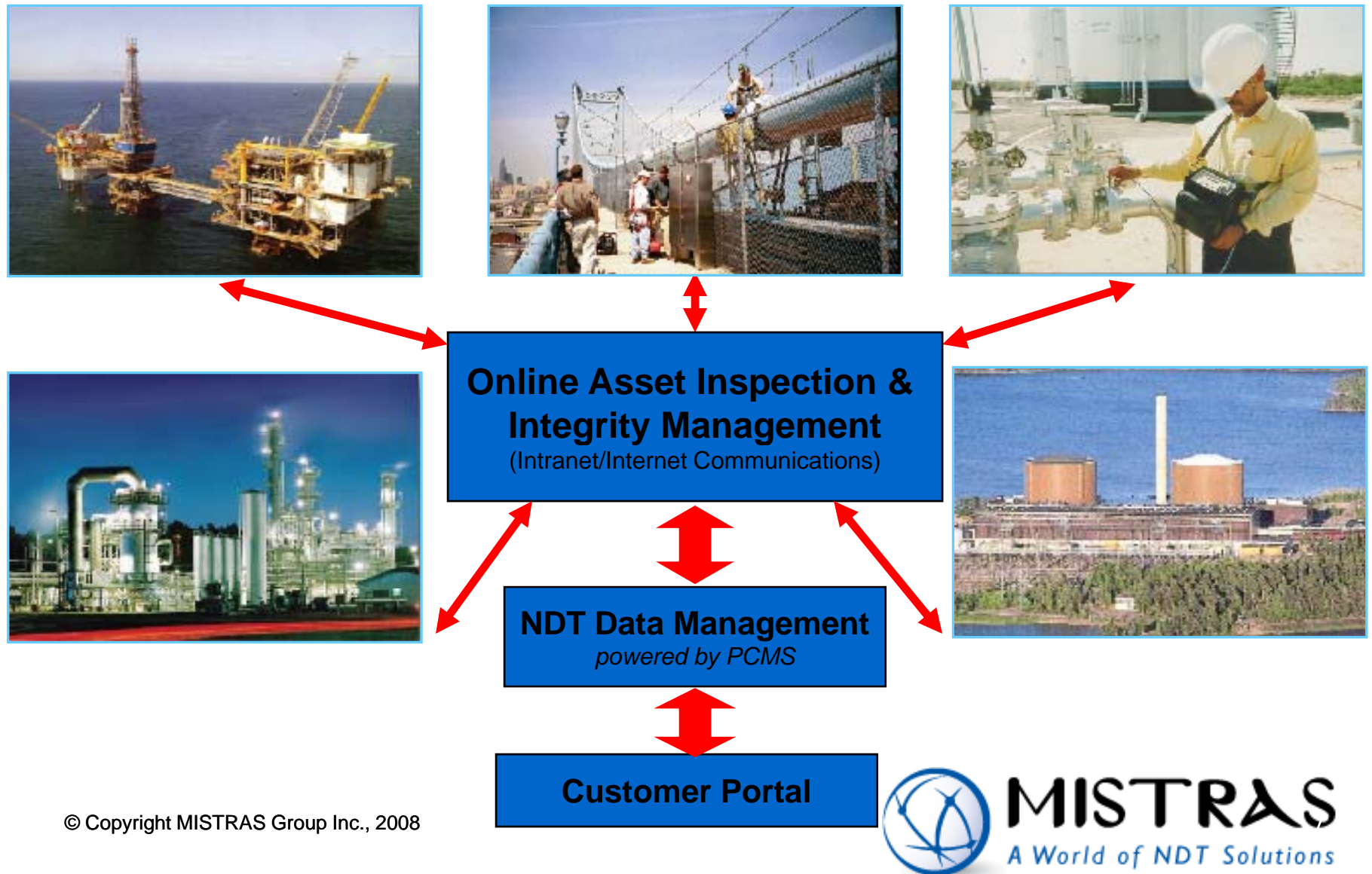
- NS Group
- USS
- GM
- MB

Construction



- Fluor Daniel
- Bechtel
- Washington Group

On-Line Asset Integrity Management



ENVIROACOUSTICS ABEE

Welcome to Envirocoustics - The Greek Acoustic Emission Company. Find info about Acoustic Emission and

Envirocoustics Non Destructive Testing

High Tech NDT Solutions

ISO 9001:2000 Cert. No. 5775

ΑΔΑΡΤΗ ΓΕΩΣΕΙΣ

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ACOUSTIC EMISSION

Field Test Services

- Pressure Vessel AE Testing
- Storage Tank Floor AE Testing
- Leak Detection
- Cryogenic Tank AE Testing
- Cool Down Testing
- Transformers Gassing & Partial Discharge Testing
- Aerial Man Lift Testing
- Composite Tanks Testing

Systems & Instrumentation

Multichannel Systems

- Sensors
- Preamplifiers
- Repeaters
- Leak Detectors
- Special Instruments
- Hand held Systems

Software

Noesis

AEwinPost

LPMS

Theory

What is Acoustic Emission (AE)?

ULTRASONIC TESTING

Field Test Services

- Thickness Measurements
- Large Structure Corrosion Mapping
- Weld Inspection
- Tube Corrosion Mapping
- Guided Ultrasonic Waves

Systems & Instrumentation

Thickness Gages

Flaw Detectors

UT Boards

UT Automated Systems

UT Transducers

Software

UTIA

OTHER NDT

Eddy Currents

by Nortec

- Magnetic Particles & Dye Penetrants by Magnaflex
- Magnetic Particle Inspection
- Colour Contrast Penetrants
- Fluorescent Penetrants
- MT & PT Equipment

Wire Rope NDT

by Introm

Video Inspection

Quick, qualitative inspections in hard-to-reach places

Impact Echo

NDT evaluation of concrete and masonry structures

Resistivity Testing

by Physical Acoustics Corporation

AE Tank Floor Inspection with TANKPAC

- No Need to Empty or Clean the Tank.
- 100% Floor Inspection
- Verified Reliability
- Inspection and Evaluation of Annular Ring
- Immediate Results
- Rapid testing: 50 meter tank in one day
- Identify tanks that need inspection and repair
- Leave good tanks on-line and save the shut-down and cleaning costs

NOESIS - Acoustic Emission Data Advanced Analysis Software

See Envirocoustics' NOESIS version 5.0 software for Advanced Analysis of Acoustic Emission Data, utilizing Visual objects and implementing Supervised Pattern Recognition, Unsupervised Pattern Recognition and Neural Network and Advanced Waveform Management. New in this version is the Live-SPR (Data Classification and Processing During Acquisition).

AE Pressure Vessel Inspection with MONPAC

MONPAC is an Acoustic Emission based expert system for evaluating the structural integrity of metallic pressure vessels, spheres, columns and tanks. MONPAC consists of AE test procedures and evaluation criteria and enables 100% inspection of the vessel during one pressure test. MONPAC can be applied during First Hydrotest of a new Pressure Vessel according to ASME V Part 12, Requalification Hydrotest of a used Pressure Vessel, On Line Pressurization (in-service with working fluid).

microDISP - Portable Acoustic Emission System

Portable 4 - 8 channel battery (optional) and notebook operated micro-chassis AE system containing the PCIDSP-4 cards. Ideal for research and field applications where high speed, low noise, varied testing purposes, light weight and small pack system are required.

Panometrics Series 36 Precision Thickness Gages

These versatile handheld models make accurate and repeatable thickness measurements on parts where access to the opposite surface is difficult or impossible. They can also calculate and display Material Sound Velocity or Time-of-Flight to determine material characteristics. Measurements are instantly displayed as large numerals on the backlit display.

AEwinPost™

The new version of the post-processing Acoustic Emission Data software is released. Upgrade now!!!

MQ2 Series Thickness Gages

These small but rugged units provide fast and accurate measurements on internally corroded parts. The MQ2 Series has a host of practical measurement features including Automatic Probe Recognition, High Temperature capabilities, and Min Max and Freeze Modes.

OmniScan - Portable Modular NDT Instrument

The instrument is a modular platform which supports various technologies such as the ultrasound, the ultrasound phased array, the eddy current and the eddy current array, in order to cover most of the test applications required in various business sectors. The OmniScan™ is built to work in the harshest field conditions. Its solid polycarbonate-based casing and rubber bumpers make it a splashproof instrument that can withstand drops, shocks, and hits, as well as waterjet cleaning.

UTIA - Ultrasonic Imaging and Analysis Software

Envirocoustics' UTIA software for advanced Ultrasonic Data Analysis provides the user with a complete set of tools for manipulating / post-processing, viewing and exporting ultrasonic A/B/C-Scan data. These tools allow for easy viewing, statistics, composite C-Scan images, SD C-Scan images and image/data export to any Windows application. Also support advanced waveform management.

ULTRAPAC - Ultrasonic C-Scan / Imaging System

ULTRAPAC offers an unmatched range of Ultrasonic imaging capabilities and allows acquisition and analysis by means of Pulse-Echo and Through Transmission techniques. The easily maintained PC-based system allows acquisition and analysis for comprehensive quantitative data which are mapped by A-Scan, B-Scan, C-Scan, as well as D-Scan (3-D image).

EPPOCH LT - Flaw Detector by Panometrics

A truly handheld, affordable flaw detector designed specifically for applications that don't require many of the highly specialized features and documentation capabilities found in our larger units.

Research & Development

On-going European and Domestic research programs include Wind Turbine Blade assessment by Acoustic Emission, concrete damage and properties assessment by Acoustic Emission and Acousto-Ultrasonic techniques. See also information about in-house research and development.

Καλώς ήρθατε στην ENVIROACOUSTICS A.B.E.E. Την Ελληνική Εταιρία Ακουστικής Εκπομπής. Στην ιστοσελίδα

Envirocoustics Non Destructive Testing

High Tech NDT Solutions

ISO 9001:2000 Cert. No. 5775

ΕΠΙΧΕΙΡΗΣΗ

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ΑΚΟΥΣΤΙΚΗ ΕΚΠΟΜΠΗ

Ελέγχος Πυθμένα Δοξαρίων με τη μέθοδο TANKPAC

- Χωρίς δόξαριο και καθαρισμό της δοξαρίου
- Έλεγχος στο 100% του πυθμένα
- Επιβεβαιωμένη Αξιοπιστία
- Αποτέλεσμα
- Επιβάρυνση και Αξιολόγηση Περιφερειακού Δασυλίου
- Άμεσο αποτέλεσμα
- Ταχύτητα έλεγχου: 50μτρη δοξαρή σε μία ημέρα

NOESIS - Λογισμικό Ανάλυσης Δοξαρίων Ακουστικής Εκπομπής

Διαβάστε για το Λογισμικό της Envirocoustics NOESIS version 5.0 για την Ανάλυση Δοξαρίων Ακουστικής Εκπομπής, με χρήση Visual objects και εφαρμογής όπως Supervised Pattern Recognition, Unsupervised Pattern Recognition and Neural Networks, με Advanced Waveform Management. Νέο σε αυτήν την έκδοση είναι το Live-SPR (Data Classification and Processing During Acquisition).

Ελέγχος Πιστωτικών Δοξαρίων και Δοξαρίων με τη μέθοδο MONPAC

Το MONPAC βασίζεται στην μέθοδο της Ακουστικής Εκπομπής για την ανίχνευση της δομικής ακεραιότητας μεταλλικών πιεστικών δοξαρίων (σφαίρες, "πύργα", κτλ), πόρτες και δοξαρίων. Το MONPAC αποτελείται από μεθοδολογία για διαδοχικούς έλεγχους AE καθώς και από κριτήρια για τον 100% έλεγχο των κατασκευών σε μία δοκιμή.

microDISP - Φορητό Σύστημα Ακουστικής Εκπομπής

Φορητό για 4 ως 8 κανάλια που μπορεί να λειτουργεί με μπαταρίες και με έναν φορητό Η/Υ (Laptop).

ULTRAPAC - Ολοκληρωμένο Σύστημα Υπερήχων

Το UltrAPAC είναι ένα ολοκληρωμένο σύστημα υπερήχων, υψηλής ευκρίνειας που παρέχει τη δυνατότητα ελέγχου με τις δύο βασικές αρχές των υπερήχων: Pulse-Echo και Through Transmission. Η παρουσίαση των αποτελεσμάτων γίνεται με παραμετρούμενο χρόνο από σύστημα Η/Υ, με τις τεχνικές A-Scan, B-Scan, C-Scan, καθώς επίσης και D-Scan (τριδιάστατος απεικονισμός).

EPPOCH LT - Ανιχνευτής Αττίλων από την Panometrics

Ο ανιχνευτής αττίλων υπερήχων EPOCH LT είναι αλφεινός φορητός και προσιτός ανιχνευτής υπερήχων που σχεδιάστηκε συγκεκριμένα για τις εφαρμογές που δεν απαιτούν εξειδικευμένα χαρακτηριστικά γνωρίσματα ούτε τις κοινότητες αγοράς που έχουν τα μεγαλύτερα μοντέλα.

Έρευνα & Ανάπτυξη

Οι ερευνητικές δραστηριότητες της εταιρείας κεντρικά στους ακόλουθους άξονες: Βασική και εφαρμοσμένη Έρευνα για την ανάπτυξη νέων εφαρμογών Ακουστικής Εκπομπής έρευνα και Ανάπτυξη της Ακουστικής Εκπομπής και των Μη-Καταστροφικών Ελέγχων γενικότερα. Έρευνα σε θέματα εφαρμογών και ενοποίησης τεχνικών δικτύων και μεθόδων τεχνητής νοημοσύνης, έρευνα για την επίλυση τεχνολογικών προβλημάτων σε κατασκευές σύνθετης γεωμετρίας με εφαρμογή της μεθόδου της Ακουστικής Εκπομπής.

NEWSLETTER

Δείτε τις ανακοινώσεις της Envirocoustics και εγγραφείτε για την εβδομαδιαία newsletter με νέα από το χώρο των Μη Καταστροφικών Δοκιμών. Περισσότερα...

Καλώς ήρθατε στην ENVIROACOUSTICS A.B.E.E. Την Ελληνική Εταιρία Ακουστικής Εκπομπής. Στην ιστοσελίδα Βα βρείτε πληροφορίες

ΕΠΙΧΕΙΡΗΣΗ Αρχική Σελίδα

Envirocoustics

Ελ. Βενιζέλου 7 & Δελφών, 14452 Μεταμόρφωση, Αθήνα

A World of NDT Solutions



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Short History of Envirocoustics



- Established: April 1996 Reg. No.6439, 25/9/1996
- High Tech NDT Lab & 3 Mobile Test Stations
- Highly Educated & Experience Personnel (3PhDs, 4 MS, 3 engineers BS - all experienced & certified in more than 2 NDT methods)
- Acquired by the Mistras Group in 2007 and ready for more acquisitions
- Completed >500 NDT projects on global monitoring-testing of large scale structures
- Completed Several R&D projects (European, National & SBIR)
- Completed development of 4 Integrated s/w packages for NDT (> 500 of ENVACs s/w licenses sold worldwide to the best Research Institutions) and more coming in the near future

Scope of Activity of Envirocoustics



Total NDT Solutions Provider For The Assessment Of Structural Integrity And Environmental Safety Concerns of Plant and Infrastructure Assets

- NDT Field Measurements - Inspection & Condition Monitoring Services in the Balkans and selected Middle East Countries
- S/W Development engineering applications for NDT & Monitoring Purposes for the MISTRAS Group
- R&D for NDT and Condition Monitoring for EU Grants
- Trading of NDT Equipment (including calibration Services)
- Consulting and Engineering Services.

CAPABILITIES STATEMENT



State of the art technologies throughout affiliation with MISTRA Group, Inc. World NDT equipment manufacturers and technology enabled services providers:

Physical Acoustics Corp. (PAC), Quality Services Laboratories (QSL), Dunegan Testing & Inspection (DTI), CONAM Inspection & Engineering Services Inc., NDT Automation, Scanning Systems International (SSI), Vibrametrics.

State of the art technologies (complementary to Mistras Group), throughout strategic alliance and co-operation with World's Leaders in NDT equipment manufacturers and service providers:

PANAMETRICS, RDTech, Sonic, STAVELEY, Magnaflux, IMPACT ECHO, INTRON (Wire Rope), InTech R&D (FFS & Stress Analysis), TISCHUK (RBI s/w & services), ROSEN Pipeline Services

Highly Educated Inspectors & Engineers:

PhDs & ASNT-TC-1A, EN-473, API 653, AWS-CWI

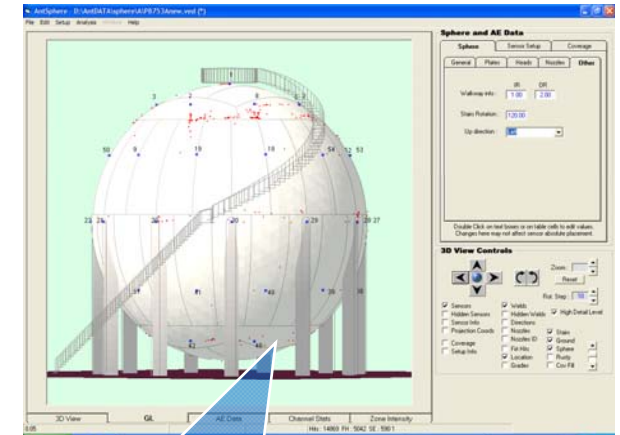
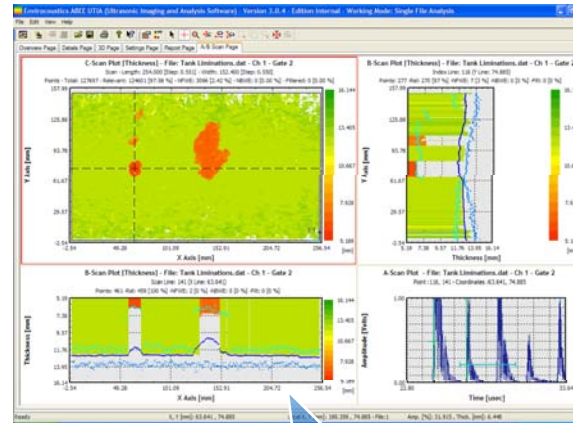
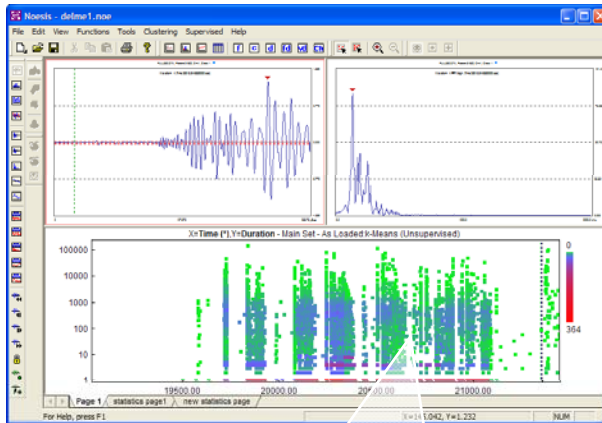
Organized Lab & State of the art NDT equipment:

Digital Ultrasonic Imaging, Digital Acoustic Emission, Eddy Current, Resistivity (ACPD),

...

ISO 9001 certified, EQA Cert. No 5775

ADVANCED ENGINEERING SOFTWARE DEVELOPMENTS



Advanced Acoustic Emission Data Analysis Pattern Recognition & Neural Networks

Noesis aerospace users

- SAAB - Sweden
- British Aerospace - UK
- Boeing - USA
- Marshall Space Flight Center - USA
- CEAT - France
- Loctite Aerospace - USA
- Embry Riddle - USA

Ultrasonic Imaging and Analysis

UTIA aerospace users

- ASCOT - France
- SNECMA – France
- Hellenic Aerospace - GR

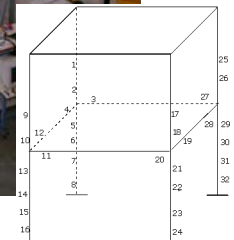
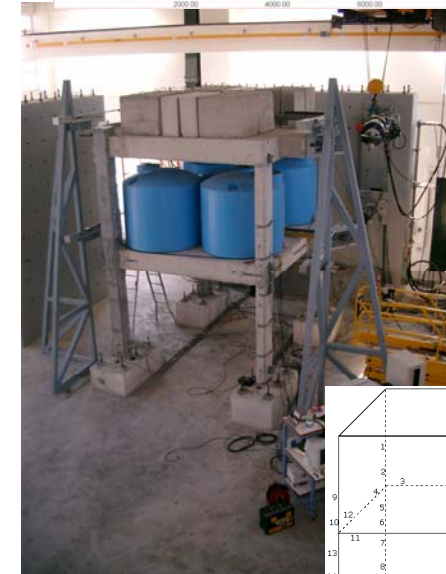
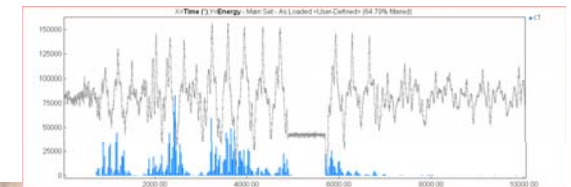
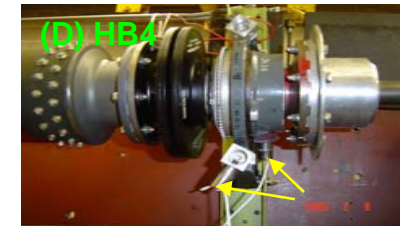
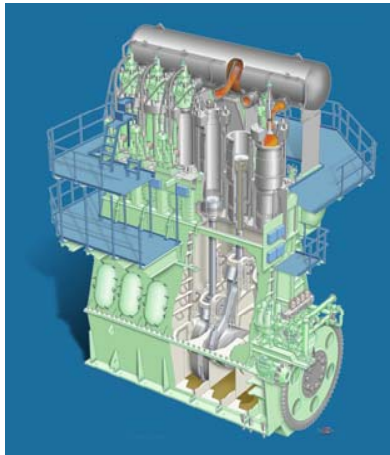
Turn-Key projects – custom s/w development

Other Projects:

- Loose Parts Monitoring System (LPMS)
- Fitness for Service (FFS)
- Wavelets & Sort Time FFT
- Dispersion Curves
- Piezoelectric Sensors calculator



RESEARCH & DEVELOPMENT



INDICATIVE LIST OF EU FUNDED PROJECTS:

“Marine Power Plant Management and Monitoring using Acoustic Emission (AE-WATT)”, 2002-2005. <http://mole.imm.dtu.dk/aewatt/index.php>

“Laser Multitask Non Destructive Technology in Conservation Diagnostic Procedures (LASERACT)”, 2002-2006.

“Acoustic Emission Proof Testing and Damage Assessment of Wind Turbine Blades –AEGIS”, 1998-2002. <http://www.eru.rl.ac.uk/AEGIS/aegis.htm>

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RESEARCH & DEVELOPMENT CONTINUED



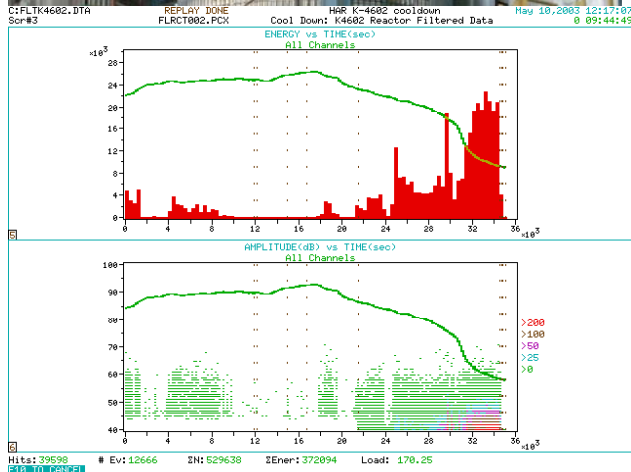
SAFERAIL

Development of Novel Inspection Systems for Railway Wheelsets

Proposal submitted by :

Nº	Proposer name	Country	Total cost (€)	%	Grant requested (€)	%
1	TWI Ltd.	United Kingdom	855,000	18.73	690,000	21.96
2	Technical Software Consultants Ltd	United Kingdom	350,000	7.67	261,250	8.31
3	Instituto de Soldadura e Qualidade	Portugal	510,000	11.17	392,375	12.49
4	The University of Birmingham	United Kingdom	545,000	11.94	406,250	12.93
5	ENVIROCOUSTICS ABEE	Greece	604,800	13.25	308,800	9.83
6	Alfa Products and Technologies	Belgium	493,490	10.81	368,868	11.74
7	Vlaamse Vervoersmaatschappij De Lijn	Belgium	410,000	8.98	215,000	6.84
8	Feldman Enterprises Limited	Cyprus	237,900	5.21	176,650	5.62
9	VTG Rail UK Ltd	United Kingdom	118,500	2.60	87,250	2.78
10	EMEF, SA - Empresa de Manutenção de Equipamento Ferroviário, SA	Portugal	220,000	4.82	121,000	3.85

TECHNOLOGY ENABLED NDT SERVICES



AE TESTING of PRESSUE VESSELS, ABOVE GROUND STORAGE TANKS, CRYOGENIC VESSELS and REACTORS, LEAK DETECTION, AUTOMATED UT FOR CORROSION MAPPING, PIPELINES TESTING ,

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PROS OF DOING BUSINESS IN GREECE



- Ideal Geographical location to Emerging Markets. Close proximity to the middle east and the incredible growth in CIS.
- European Union is very serious for R&D Grants
- Extremely qualified labor at reasonable rates
- Motivated employees with a superior work ethic under the right management—"Filotimo"
- A "rich" country for advanced Eng. Degrees
- Easy to travel abroad.... with Superior English
- Most advanced degrees are from the top Univ.

CONS OF DOING BUSINESS IN GREECE



- Unlimited Bureaucracy.....you need patience
- Little respect to accepted accounting principles and book auditing by the tax authorities
- Lack of privatization of major industries and abnormal behavior of it's employees
- Diminishing Industry due to over taxation and excessive overhead costs from forced labor wage terms especially for professionals
- Indecisive government concerning laws and foreign export policy