

PROGRAMMA

Saturday, November 2, 2002

08:30-09:00 Registration

Opening Ceremony

Chairmen: I. Prassianakis, President of HSNT
M. Sfantzikopoulos, A' Vice President of HSNT
G. Grigoriadis, Honorary President HSNT

09:00-10:00 Opening speech from the president of HSNT
I. Prassianakis
G. Nardoni, the President of ICNDT and
S. Vahaviolos the p. President of ASNT, will also shortly address the conference opening.

1st Session - Room A RECENT DEVELOPMENTS AND MATERIALS CHARACTERIZATION

Chairmen: M. Mihovski, President of BG S NDT, Bg.
D. Zacharopoulos DUTH.
S. Vahaviolos p. President of ASNT
10:00-10:15 A. Vamvakousis, G. Samoilis, G. Tsanas, A. Antonatos, M. Siakavelas, PPC and J. Kazantzakis, TEI Pireaus.
Composite Materials characterization with emphasis on experimental NDE special techniques.
10:15-10:30 V. V. Meriakri, E. E. Chigrai, I. P. Nikitin, M. P. Parkhomenko, Russian Ac. Sciences.
Millimeter Waves for Moisture Monitoring in Materials and Media.
10:30-10:45 D. Kosteas and M. Michaloudaki, Technische Universitat Munchen.
Quality Control with Nondestructive Methods of Adhesively Bonded Joints.
10:45-11:00 A. Moropoulou, N.P. Avdelidis. NTUA.
Infrared Thermography. Philosophy, History, Approaches, Standards, Application.

11:00-11:30 Coffee break – Refreshments

2nd Session - Room A INDUSTRIAL APPLICATIONS

Chairmen: V. V. Meriakri, Russian Academy of Sciences
A. Vamvakousis, PPC
A. Gkiokas, NDT Technology
11:30-11:45 M. Mihovski, Pres. of BGSNDT, V. Nichev and E. Nicheva, Bg.
Advances NDT Inspection System of Kozliduy NPP, Bg.
11:45-12:00 M. Iovea, G. Mateiasi, Polytechnica University Romania, V, Georgiou, Telecom and G. Samoilis, PPC.
Tomographs Reconstruction Algorithm for X-ray Industrial Tomography Application.
12:00-12:15 V. Leopoulos, NTUA
Eddy Current Measurement Technique in Collapsible Tubes Production.
12:15-12:30 K. Χαριτίδης, Κ.Ε.-ΜΚΕ
Διασφάλιση Ποιότητας ΜΚΕ στο Στάδιο Κατασκευής Ατμολεβήτων.
12:30-12:45 M. Παπαδόπουλος, Α. Πασχαλίδης, ΔΕΗ, και Κ. Πιστόλης Υπ.Γεωργίας
The analysis of micromechanism and microprocessing responsible for the damages of the Rotating Bearings.
12:45-13:00 M. Παπαδόπουλος, Α. Πασχαλίδης, ΔΕΗ, και Κ. Πιστόλης Υπ.Γεωργίας
Οι Ηλεκτρομαγνητικές Καταπονήσεις των Πηνίων και των Ζυγμάτων των Μετασχηματιστών Ισχύος και οι Μη Καταστροφικοί Έλεγχοι.

3rd Session - Room B INDUSTRIAL APPLICATIONS

Chairmen: D. Kosteas, Technische Univ. Munchen
G. Samoilis, PPC
11:30-11:45 D. Theodoropoulos, NTUA.
Microwaves and Nondestructive Testing.
11:45-12:00 A. Anastasopoulos, Envirocoustics SA
Risk Based Inspection.
12:00-12:15 A. Skordev, Bulgaria.
Factors and Data for Accuracy of Ultrasonic Non-Destructive Characterization of Discontinuities.
12:15-12:30 G. Grigoriadis, Hon. Pres. of HSNT,
The Importance of utilising the N.D.T. methods by Aircarriers and Aircraft Manufacturers.
12:30-12:45 J. Matsas, ELOT SA.
Standardization of NDT procedures - A step beyond.
12:45-13:00 Π. Φουσιάνης.

Προσδιορισμός Φύσης των Ασυνεχειών στις Συγκολλήσεις κατά τον Έλεγχο με Υπερήχους με τη Χρήση Συχνοτικής Ανάλυσης

13:00-14:00 Coffee break – Lunch

4th Session - Room A CONSTRUCTIONS INSPECTION

Chairmen: A. Moropoulou, NTUA,
C. Charitidis, K.E.MKE
14:00-14:15 P. Papakyriakopoulos, C. Trezos NTUA and Chr. Spanos.
Calibration of Rebound hammer and Pulse velocity methods through in situ concrete cores and standard cube specimens.
14:15-14:30 I. Prassianakis and A. Zervas, NTUA
Ultrasonic Testing of Marble Construction's Reinforcements
14:30-14:45 A. Vamvakousis, PPC, E. Pissanis, TEI Pireaus, G. Samoilis, PPC and F. Fotopoulos TEI Pireaus.
Ultrasonic Inspection Procedure and Design specifically Applied in Aluminothermic Rail Welds in Athens Metro. Connection between the metallurgical structure of the weld and the internal discontinuities.
14:45-15:00 D. Zacharopoulos, D. Karalekas, University of Rireaus, and E. E. Gdoutos, D.U.Th.
Investigation of damage in Loaded Composite Bridge Substructures Using Acoustic Emission.
15:00-15:15 A. Moropoulou, N.P. Avdelidis, E.T. Belegou, M.Karoglou, NTUA
NDT Management and Planning for the Evaluation of FAÇADE Materials in Athens Historic Buildings
15:15-15:30 D. Kouroussis, A. Anastasopoulos and A, Tsimogiannis, Envirocoustics, S.A.
Acoustic Emission Based Detection and Location of Partial Discharge in Transformers.

5th Session - Room B RECENT DEVELOPMENTS AND MATERIALS CHARACTERIZATION

Chairmen: A. Anastasopoulos, Envirocoustics SA
P. Petculescu, "Ovidius" University, Romania
14:00-14:15 P. Petculescu, R. Zagan, N. Peride, G. Corneliu Prodan and C. Canea, "Ovidius" University, Romania.

- Ultrasonic and Wavelets Analysis of Human Bone with Application in Developing Clinical Diagnostic Tools.*
- 14:15-14:30 R. Zagan, P. Petculescu, N. Peride, G. Corneliu Prodan and I. Duta, "Ovidius" University, Romania.
Comparative Study c-Scan and Wavelets Analysis through Ultrasonic Signals.
- 14:30-14:45 Γ. Παπαδόπουλος, ΕΜΠ.
Μελέτη της Καταστάσεως Μετάβασης από τη Στατική στη Δυναμική Καταπόνηση Ρωγμής με την Οπτική Μέθοδο των Καυστικών.
- 14:45-15:00 C. Spyropoulos, NTUA and G. Papanikolaou, University of Patras.
Interfacial effects in composite materials affecting the method of caustics.
- 15:00-15:15 P. Petculescu, G. Corneliu Prodan and R. Zagan, "Ovidius" University, Romania.
Analysis of 3D Images by Ultrasonic Signals and Wavelets Packet.
- 15:15-15:30 R. Kazares, NDT Automation and A. Anastasopoulos, Envirocoustics, S.A.
Tube Scan: Rotating Internal Scanner for Ultrasonic Tube Inspection.

15:30-16:00 Coffee break – Refreshments

6th Session - Room A CONSTRUCTIONS INSPECTION

- Chairmen:** I. Matsas, ELOT SA.
D. Theodoropoulos, NTUA
- 16:00-16:15 A. Moropoulou, N.P. Avdelidis, E.T. Belegou, M.Karoglou, NTUA
Investigation of Architectural Surfaces of Historical Buildings using NDT Techniques.
- 16:15-16:30 A. Tsimogiannis, A. Anastasopoulos and D. Kouroussis, Envirocoustics, S.A.
Acoustic Emission Inspection of Stainless Steel Pressure Equipment and Storage Tanks.
- 16:30-16:45 D. Karalekas, University of Pireaus
Nondestructive Evaluation of the Loading Capability of Commercial Containers Using Stereolithography Models.
- 16:45-17:00 Th. Theodoulidis AUTH.
Eddy current inspection of welds.
- 17:00-17:15 A. Vamvakousis, G. Tsananas, A. Antonatos, M. Siakavelas, PPC and J. Kazantzakis, TEI Pireaus.

Stress and Strain characterization, using Deformation Potentials, of semiconductor devices by Optical Spectrometry Methods. A new option of NDE.

- 17:15-17:30 S. Economides, GAEC
Occupational exposure in Greek industrial radiography laboratories (1996-2001). Establishment of dose constraint level (DC) in Greece.

17:30-18:00 Conclusions – Discussion – Progress of HSNT

- Chairmen:** I. Prassianakis, President of HSNT.
M. Sfantzikopoulos, A' Vice President of HSNT
S. Vahaviolos, p. President of ASNT

END OF CONFERENCE

OUR NEXT CONFERENCE:
THE 3rd ICNDT of HSNT
15-17 OCTOBER 2003
CHANIA-CRETE

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- TELECOM ENGINEERING, Β. Γεωργίου
- TUV HELLAS

HELLENIC SOCIETY FOR NON-DESTRUCTIVE TESTING (HSNT)

Non Profit National Society Member of
EFNDT and ICNDT



4th National Conference of HSNT & 2nd Balkan Conference of BSNDT

Athens, November 2, 2002

Administration Building of Athens
National Technical University
Web Site: www.ntua.gr

SUBJECTS

NON-DESTRUCTIVE TESTING SKILLS - APPLICATIONS - INNOVATIONS

The aim of the conference is the informing of the NDT technician and scientist people on the new evolutions, skills and applications of NDT on the industry, the production and the research area.

ORGANISING COMMITTEE

- I. Prassianakis, President of HSNT, NTUA
M. Koulouri, Treasurer of HSNT, GATS
G. Petridis, Sec. General of HSNT, E.B.O. S.A.
D. Theodoropoulos, Member of HSNT, NTUA

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