



HELLENIC SOCIETY OF NON-DESTRUCTIVE TESTING (HSNT)
MEMBER OF EFNDT and ICNDT

5th International Conference on NDT of HSNT- IC MINDT 2013

Organized by the Hellenic Society for NDT (HSNT)

Athens Greece, Eugenides Foundation, May 20-22, 2013



CONFERENCE PROGRAMME

**Materials Integrated
Non Destructive Testing - 2013**

**5th International Conference on NDT
of HSNT- IC MINDT 2013**

Conference Programme

Chairman: I.N.Prassianakis,
President of HSNT, Professor Emeritus, NTUA

Conference Secretary General: G. C.Papanicolaou
Professor, University of Patras

Conference Secretariat:D. Portan
PhD, University of Patras

Conference Website:<http://www.hsnt.gr/IC-MINDT-2013/>

HELLENIC SOCIETY OF NON-DESTRUCTIVE TESTING (HSNT)
Member of EFNDT and ICNDT

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Monday 20 May 2013

08:00 - 08:45

Registration

Monday 20 May 2013
08:45-10:30

OPENING CEREMONY

**Chairmen: I. N. Prassianakis, J.M.Farley,
G.Varoufakis, G.C. Papanicolaou**

08:45-09:00 **Welcome addresses by the Chairmen**
OP.1

09:00-09:30 **I.N.Prassianakis** - President of HSNT, Professor Emeritus NTUA, Greece
OP.2 *"NDT and HSNT: the crucial role of NDT in the economy, safety and sustainability of a society"*

09:30-10:00 **G.Varoufakis** - Professor of UOA, Chairman of the Board of
HALYVOURGKI, Honorary President of ELOT, Greece
OP.3 *"Non destructive quality control and certification in antiquity".*

10:00-10:30 **J.M.Farley** - Dr. Chairman of ICNDT, U.K.
OP.4 *"Challenges for NDT Worldwide"*

10:30 - 10:45

Coffee-Break

Monday 20 May 2013
10:45-12:15

SESSION 1A - Plenary Lectures

**Chairmen : M.Purschke, A.Moropoulou,
J.Botsis,**

10:45-11:15 **M.Purschke**, EFNDT President, c/o German Society for Non-destructive
Testing (DGZfP), Germany

PL.1 *"ISO 9712:2012 - European and Worldwide impact to NDT Qualification"*

11:15-11:45 **A.Moropoulou**, NTUA Vice-Rector, Greece

PL.2 *"Integrated protocol for NDT investigation in historic buildings"*
By: Anastasia Kioussi, Nikoleta Skordaki, Maria Karoglou, Asterios
Bakolas and Antonia Moropoulou,

11:45-12:15 **J.Botsis**, EPFL, LMAF-STI, Lausanne, Switzerland

PL.3 *"Damage detection and characterization in composites with embedded optical
sensors : A review of experimental, theoretical and numerical approaches"*

12:15 - 12:30

Coffee-Break

Monday 20 May 2013
12:30 - 14:00

SESSION 1B - Plenary Lectures
Chairmen :Art.
Vamvakousis,G.Assimakopoulos,
K.Bouranta

- 12:30-13:00 **E.Hristoforou**
Laboratory of Physical Metallurgy, National Technical University of Athens
PL.4 "Magnetic steel health monitoring: a method ready for standardization"
- 13:00-13:30 **G.Assimakopoulos,**
Chief Executive of WGI, Greek Welding Institute, Greece
PL.5 "Current and Future Trends in the Welding-NDT Domain"
- 13:30-14:00 **K.Bouranta,** Hellenic Accreditation System, Greece
PL.6 "Presentation of ESYD and the role of Accreditation Assessment and Accreditation of NDT's Laboratories"

14:00-15:00

Lunch

Monday 20 May 2013
15:00 - 16:45

SESSION 2 - NDT for artworks
Chairmen : G.Petridis , A.Moutsatsou

- 15:00-15:30 **Key-Note Lecture: G.Karagiannis,** "ORMYLIA" Foundation, Greece,
KNL.2 "Non-destructive identification of the "DNA" of art objects using remote sensing and tomographic techniques"
- 15:30-15:45 **A.Alexopoulou-**Technological Educational Institute of Athens, Greece
P.2.1 "Multispectral imaging assisted by image processing: a useful tool for the study of ancient writing"
By: A.Alexopoulou, A.Kaminari, A.Panagopoulos
- 15:45-16:00 **A. Kaminari-** Technological Educational Institute of Athens, Greece
P.2.2 "Ultraviolet fluorescence photography on works of art: Can digital era reach and surpass traditional film quality? A first approach."
By: A. Kaminari, R. Kanakari, P. Rombakis, A. P. Moutsatsou, A. Alexopoulou
- 16:00-16:15 **A.P. Moutsatsou,** National Gallery - Alexandros Soutzos Museum, Greece
P.2.3 "NDT of artworks; from theory to museum practice",
By: A.P.Moutsatsou, E. Kouloumpi, Agni-Vasileia Terlix, P. Rombakis
- 16:15-16:30 **A.Lolli-** CIRI Inter-Dept Research Center for Construction, Bologna, Italy
P.2.4 "Cracking assessment in the David by Michelangelo"
By: Giovanni Pascale, Antonio Lolli
- 16:30-16:45 **P. Theodorakeas-**National Technical University of Athens, Greece
P.2.5 "The use of Pulsed Thermography for the investigation of art and cultural heritage objects"
By: P. Theodorakeas, S. Sfarra, C. Ibarra-Castanedo, N.P. Avdelidis, M. Kouli, X.P.V.Maldague, D. Ambrosini and D. Paoletti

16:45 - 17:00

Coffee-Break

Monday 20 May 2013
17:00 - 18:45

SESSION 3 - Sensors, electronics and software in NDT

Chairmen :

A.Antonatos, Head of Mechanical & Metallurgical Testing and Inspection Section of TRSC, Greece

R.Grimberg, National Institute of Research and Development for Technical Physics, Iasi, Romania

17:00 - 17:30

A.Antonatos, Head of Mechanical & Metallurgical Testing and Inspection Section of TRSC, Greece

KNL.3

"Management and quality assurance in NDT", By: A.Antonatos

17:30 - 17:45

R.Grimberg, National Institute of Research and Development for Technical Physics, Iasi, Romania

P.3.1

"Wireless metamaterial sensors for structural health monitoring"

By: R.Grimberg, G.Y.Tian, A.Savin

17:45-18:00

A.C.Christopoulos, National Technical University of Athens, Greece

P.3.2

"Optical tracking system for inductive sensors"

By: I.N.Koulalis, A.C.Christopoulos, G.J.Tsamasphyros

18:00-18:15

A.Savin, Nondestructive Testing Department, National Institute of R&D for Technical Physics, Iasi, Romania

P.3.3

"Digital signal processing for GPR: case study"

By: A.Savin, N.Iftimie, R.Steigmann, G.S.Dobrescu, R.Grimberg

18:15-18:30

R.Marini, Hellenic Aerospace Industry S.A., Greece

P.3.4

"Damage Assessment in Various Aircraft Structures through Conductivity Testing"

By: Roubini Marini

18:30-18:45

A.Abbas, Research center for Welding and Control, Algeria

P.3.5

"Sensors and sensor arrays for NDT "

By: AhceneBouabdallah,Aabdelaziz Abbas , Ali BadidiBouda, Ahmed Mebtouche, Nadia Harhad

Tuesday 21May 2013
09:00-11:30

SESSION 4 - Applications in NDT I

Chairmen :

D.Karalekas, University of Piraeus, Greece

S.Kouridakis , Technological Educational Institute of Crete, Greece

09:00 - 09:30

KNL.4

D.Karalekas, University of Piraeus, Greece

"In Situ Characterization of Residual Strains in Layered Manufacturing",

By: Andreas Kandaros, Alexis Bimis, Dimitris Karalekas

09:30 - 09:45

P.4.1

S.Kouridakis , Technological Educational Institute of Crete, Greece, *"Development of a novel, efficient and thoroughly automated solar power tracking system for electrical power generation"*

By: S.Kouridakis

09:45-10:00

P.4.2

S.Kouridakis , Technological Educational Institute of Crete, Greece, *"Detection techniques based on NMR and by applying ultrasensitive magnetometers for identification of water resources, of minerals, oil and gas as well as underground and submerged objects"*

By: S.Kouridakis

10:00-10:15

P.4.3

L. Franco, Technology Centre AIMEN, Spain

"Tangential wall thickness measurement for thermal insulated piping based on digital radiography", By: L. Franco, F. R. Sestelo

10:15-10:30

P.4.4

A.Choux, CEA, Centre de Valduc, France, *"Non destructive testing for LMJ spherical layers"*, By: A. Choux, L.Barnouin, C.Gauvin, G. Geoffray, C. Hermerel, L.Jeannot, G. Legay, M.Martin, P. Merillot, O.Raphael, V.Brunet

10:30-10:45

P.4.5

S.Belattar, Department of Physics, Faculty of Sciences, Semailia, Morocco, *"Thermal nondestructive testing characterization of metallic structures containing internal defect of crack and air bubble types"*

By: EDDAZI Abderrahman, BELATTAR Sougrati

10:45-11:00

P.4.6

G.A.Papadopoulos, Professor NTUA. Athens,, Greece

"Experimental evaluation of the stress intensity factors, the stress optical constants and the crack tip plastic zone by caustics area "

By: G.A.Papadopoulos

11:00-11:15

P.4.7

M.Papadopoulos, Greece, *"The Prognostic-Preventive and Diagnostic maintenance and the Damages Diagnosis Technique for the lignite and the fly-Ash conveyors Belt Transportation."* By:

M.Papadopoulos, S.Kiartzis, E. Sideridis, D.Pagoulatos, N.Prassianakis

11:15-11:30

P.4.8

P.Papandreopoulos, NTUA, Athens, Greece

"Comparative evaluation of XRF and SEM-EDX analyses for the non-destructive characterization of soil corroded copper-based alloys"

By: P. Papandreopoulos, M. Kouli, D. Yfantis

11:30-12:00

Coffee-Break

Tuesday 21 May 2013 SESSION 5 - Applications in NDT II

12:00-13:30

Chairmen:

D.A.Zacharopoulos, University of Thrace, Greece

S.C.Sood, Managing Director , CEng, MIERE, MIEEE, M.TECH,
B.TECH

12:00-12:30
KNL.5

S.C.Sood, Managing Director , CEng, MIERE, MIEEE, M.TECH,
B.TECH, Computerised Information Technology Limited, UK
" NDE Welds Inspection qualifications for pipework and pipelines "
By: S.C.Stood and G.Assimakopoulos

12:30-12:45
P.5.1

V.Matveev- A.Shmyreva, Saint-Petersburg State University,
Russia, "NMR-in-magnetics as an effective non-destructive technique
for testing and/or certification of magnetic nanomaterials"
By: Vladimir V. Matveev and Anna A. Shmyreva

12:45-13:00
P.5.2

N.J.Siakavelas, University of Patras, Greece
"Detection of the plate boundary separating two (a) different materials,
and (b) different thickness sections by active thermography"
By: N. J. Siakavellas, J. Sarris,

13:00-13:15
P.5.3

D.A.Zacharopoulos, University of Thrace, Greece
"Determination of Fracture Mechanics Parameters by Using Digital
Image Correlation Method"
By: F. Th. Givannaki, D. A. Zacharopoulos, S.G. Xeidakis

13:15-13:30
P.5.4

M.G.Fourlas, NTUA, Athens, Greece
"Determination of mechanical properties of naturally aged concrete by
means of destructive and non - destructive tests"
By: M. G. Fourlas, E. Sideridis and I. N. Prasianakis

13:30-15:00

Lunch

Tuesday 21 May 2013 SESSION 6 - Applications in NDT III

15:00-17:15

Chairmen:

E.Siores, Prof. Provost (On Campus) and Director of Research & Innovation University of Bolton (UK)

V.V. Meriakri, Russian Academy of Sciences, Russia

15:00-15:30

KNL.6

E.Siores, University of Bolton (UK)

"Microwave Thermography for Early Diagnosis of Heart Diseases"

By: E. Siores and K. Toutouzas

15:30-15:45

P.6.1

K.Dragos, Earthquake Planning and Protection Organisation, Greece, *"Field measurements and dynamic analysis of pedestrian bridges - II, Ambient vibrations,*

By: A. Arabatzis, A. Athanatopoulou-Kyriakou, K. Dragos, C.Z. Karakostas, A. Lavdas and G. D. Manolis

15:45-16:00

P.6.2

M.Papaioannou, Aristotle University (AUTH), Thessaloniki, Greece, *"Enhanced Measurement and Parametric Analysis of Complex Media Permittivity via a Prototype Cylindrical Resonator and an Accurate Time-Domain Methodology"*, By: M.Papaioannou, V.Salonikios, T. Karamanos, and N. Kantartzis

16:00-16:15

P.6.3

N.Katsiotis, NTUA, Athens, Greece, *"Assessment of Concrete Quality through the means of Digitally Processed images acquired via Fiber Optic Microscopy – Correlation with UltraSound data"*

By: N. Katsiotis, T. Matikas, D. Aggelis, A. Moropoulou

16:15-16:30

P.6.4

S. Wójtowicz, Electrotechnical Institute, Pożaryskiego, Poland *"Application of electrical spectro-tomography for nondestructive measuring the distribution of moisture in walls"* By: K.Biernat, A.Idziaszek-Gonzalez, K. Nita, S. Wójtowicz

16:30-16:45

P.6.5

K.Dragos, Earthquake Planning and Protection Organisation, Greece, *"Field measurements and dynamic analysis of pedestrian bridges - I. Numerical modelling"*

By: A. Arabatzis, A. Athanatopoulou-Kyriakou, K. Dragos, C.Z. Karakostas, A. Lavdas and G. D. Manolis

16:45-17:00

P.6.6

V.V. Meriakri, Russian Academy of Sciences

"Non-destructive non invasive determination of human skin moisture using millimetre wave spectroscopy", By: V.V. Meriakri, S.V. von Gratowski, M.P. Parkchomenko, N.A. Fedoseev.

17:00-17:15

P.6.7

L.Svilainis, Kaunas University of Technology, Lithuania

"Signal stripping technique for ultrasonic imaging"

By: L.Svilainis, V.Dumbrava, A.Aleksandrovas, A.Chaziachmetovas, S. Kitov, D. Pagodinas

17:15-17:30

Coffee-Break

Tuesday 21 May 2013 SESSION 7 - Quality Management in NDT

17:30-18:30

Chairmen:

N.Orfanoudakis, TEI Chalkis, Greece

M.Fytos, ASNT NDT Level III in RT, UT, ET, MT, PT, Greece

17:30-18:00

KNL.7

N.Orfanoudakis, TEI Chalkis, Greece

"Application of non-destructive examination for industrial inspection and conformity assessment under EN ISO/IEC 17020:2012"

By: Konstantinos Krallis, Nikolaos Orfanoudakis

18:00-18:15

P.7.1

M.Fytos, ASNT NDT Level III in RT, UT, ET, MT, PT, Greece

"NDT for the new generation of the "all composite" commercial aircraft - review and outlook"

By: M.Fytos

18:15-18:30

P.7.2

S. Takrity, Head of nuclear techniques dept. Arab Atomic Energy Agency, Tunis, Tunisia

"Review of Arab Atomic Energy Agency on NDT Arab Program"

By: S.Takrity

Tuesday 21 May 2013

21:00-

BANQUET

**EUGENIDES FOUNDATION
2nd Floor Peristyle - THOLOS**

Wednesday 22 May 2013 SESSION 8 - Ultrasonics and Acoustic Emission
09:00-11:00

Chairmen :

G.Nardoni, I&T Nardoni Institute

G.A.Papadopoulos, NTUA, Athens, Greece

09:00 - 09:30

KNL.8

G. Nardoni, I&T Nardoni Institute, Italy

"Diffraction from weld defects, fundamental parameter in sizing and characterization with Pulse Echo, TOFD and Phased Array"

By: P. Nardoni , D. Nardoni, M. Feroldi , M. Certo , L. Possenti , A. Filosi, S. Quetti

09:30 - 09:45

P.8.1

AL HAJ, Ecole Nationale Supérieure des Mines, SPIN-EMSE, France

"Thermogravimetric experiments coupled with acoustic emission analysis dedicated to high-temperature corrosion studies of metallic alloys"

By: AL HAJ Omar, V.Peres, E.Serris, F.Grosjean, J.Kittel, F.Ropital and M.Cournil

09:45-10:00

P.8.2

A.Bravo, University of Québec at Trois-Rivières, Canada

"Damage characterisation of thermoplastic matrix wood Fiber composite using acoustic emission", By: Alencar Bravo, LotfiToubal,

DemagnaKoffi, FouadErchiqui&Bohuslav V. Kokta

10:00-10:15

P.8.3

L.Svilainis, Kaunas University of Technology, Lithuania

"Ultrasonics system for arbitrary pulse width and position trains application for imaging", By: L.Svilainis, V.Dumbrava, S.Kitov, A.Aleksandrovas,

A.Chaziachmetovas, V.Eidukynas. D.Kybartas, K.Lukoseviciute

10:15-10:30

P.8.4

A.Ghavamian, TWI Persia, Iran

"The application of guided waves for detection of corrosion under pipeline patches", By: A.Ghavamian, A. Tamimi

10:30-10:45

P.8.5

Noam Amir, AcousticEye Ltd., USA

"Non-invasive Tube Inspection using Pulse Reflectometry"

By: Noam Amir

10:45-11:00

P.8.6

M. Mokhles, TWI Persia, Iran

"The use of long range guided wave ultrasonic test for predicting extended pipeline quality"

By: M. Mokhles, Ch. Ghavipancheh, A. Tamimi

11:00-11:30

Coffee-Break

**Wednesday 22 May 2013 SESSION 9 - NDT Systems,
11:30-13:00**

Chairmen :

M.Papadopoulos, DEH, HSNT, Greece

A.Anastasopoulos, Mistras Group Hellas A.B.E.E,
Athens, GREECE

**11:30-12:00
KNL.9**

A.Anastasopoulos, Mistras Group Hellas A.B.E.E, Athens, Greece, "*Integrated inspection scheme for storage tanks maintenance and management*", By: A.Anastasopoulos, N.Tsopelas,I.Ladis, D.Papasalouros, D.Kourousis

**12:00-12:15
P.9.2**

E.Tzianaki, Technological Educational Institute of Crete, Greece "*A laser based pump probe method for characterization of nanostructures*", By: E.Tzianaki, A. Lyras, M. Tatarakis, C. Kosmidis, N. A. Papadogiannis

**12:15-12:30
P.9.3**

C. Stergiopoulos,TEI of Athens, Greece "*Acoustic Emission and Electrical Signal Recordings during Three Point Bending Tests on Cement Mortar Samples*", By:C. Stergiopoulos, I. Stavrakas, G., D. Triantis Hloupis, A. Kyriazopoulos"

**12:30-12:45
P.9.4**

M.L. Kazakevich, State Enterprise "KOLORAN", Institute of Physical Chemistry, National Academy of Science of Ukraine, Ukraine, "*Non-destructive testing of underwater construction*" By: M.L. Kazakevich, V.M. Kazakevich

**12:45-13:00
P.9.4**

P.Kotsanakis, NTUA, Athens, Greece, "*Non-destructive investigation and evaluation of machine elements*", By: P. Kotsanakis , K. Flentzeris, M. Papadopoulos, E. Sideridis, V.N. Kytopoulos and I.N. Prassianakis

13:00-15:00

Lunch

Wednesday 22 May 2013 15:00-17:15 **SESSION 10 - Magnetic and Electro-Magnetic Techniques ,**

Chairmen :

E.Hristoforou ,NTUA Athens, Greece

K. Kalkanis, NTUA Athens, Greece

- 15:00-15:30
KNL.10 **T.Theodoulidis**,University of Western Macedonia, Greece
"Precision Measurements for Eddy Current NDT Benchmark Problems Involving Airspace Applications"
By: I.Martinos, T.Theodoulidis
- 15:30-15:45
P.10.1 **A. Ktena**,TEI of Chalkida, Greece
"Hysteresis modeling and magnetic non-destructive testing "
By: A.Ktena and E.Hristoforou
- 15:45-16:00
P.10.2 **P. Vourna**, NTUA, Athens, Greece
"Residual Stress Analysis in Non Oriented Electrical Steel sheets by Magnetic Barkhausen Emission Technique"
By: P. Vourna, A. Ktena and E. Hristoforou
- 16:00-16:15
P.10.3 **E.Putilova**,Institute of Engineering Science, Russian Academy of Sciences, Russia
"State Diagnostic of the metal in the different zones of welded large diameter pipes under elastic deformation by tension (compression) and torsion by means of magnetic measurements"
By: Evgeniia A. Putilova, Edward S. Gorkunov, Sergey M. Zadvorkin
- 16:15-16:30
P.10.4 **I.Martinos**, University of Western Macedonia, Greece
"Multi-Frequency Eddy Current Testing for Heat Exchanger Tubes"
By: I.Martinos and T.Theodoulidis
- 16:30-16:45
P.10.5 **E.Cheilakou**, NTUA, Athens, Greece
"Determination of reinforcement and tendon ducts positions on pre-stressed concrete bridges by means of Ground Penetrating Radar (GPR)"
By: E.Cheilakou, P.Theodorakeas, M.Koui, S.Moustakidis, Chr.Zeris
- 16:45-17:00
P.10.6 **C.Voulgaraki**, University of Western Macedonia, Greece
"Study of the SQUID Technique in Eddy Current Inspection of Fastener Hole Cracks"
By: C. Voulgaraki, T.Theodoulidis, N.Poulakis
- 17:00-17:15
P.10.7 **S. Wójtowicz**,Electrotechnical Institute, Pożaryskiego, Poland
"Monitoring of magnetic separation process using impedence tomography measurement system",
By: A.Idziaszek-Gonzalez, W.Kozłowski,H. Malinowski, S.Wójtowicz

17:30-18:30

CLOSING CEREMONY

POSTERS SESSION

Poster Title	
P01	A. Bouloufa , University Ferhat Abbas of Sétif, Algeria "Photoacoustic spectroscopy technique applied for all materials form" By: A. Bouloufa and K. Djessas
P02	P. Chatzifotis , NTUA, Athens, Greece "Magnetoacoustic emission in bulk magnetic steel characterization" By: P. Chatzifotis, P. Vourna, A. Ktena and E. Hristoforou
P03	G. Georgousis , NTUA, Athens, Greece "Damage Evaluation of PVDF with MWCNTs Nanocomposites under Tensile Load by Monitoring their Electrical Behavior" By: G. Georgousis, C. Pandis, A. Kalamiotis, P. Georgiopoulos, A. Kyritsis, E. Kontou, P. Pissis, M. Micusik, K. Czanikova, M. Omastova
P04	V. Jemec , High school Domzale, Slovenia "Ultrasonic testing of hollow axle sets of diesel-engine trains" By: Viktor Jemec, Janez Gorše, Janez Grum
P05	V. Jemec , High school Domzale, Slovenia "Possibilities of automatic inspection on mounted wheel sets (hollow axle) on Slovenian Railway", By: Viktor Jemec, Janez Grum, Janez Gorše
P06	K. Hiliadi , NTUA, Athens, Greece "Stress state determination in boat axes using magnetic techniques" By: K. Hiliadi, P. Vourna, A. Ktena and E. Hristoforou
P07	E. K. Ioakeimidis , NTUA, Athens, Greece "Magnetic characterization in corroded magnetic steels" By: E. K. Ioakeimidis, V. Kytopoulos and E. Hristoforou
P08	N. Karahaliou , NTUA, Athens, Greece "Hardness and stress correlation with Barkhausen noise in railway rails", By: N. Karahaliou, P. Vourna, A. Ktena and E. Hristoforou
P09	G. Kotoula , NTUA, Athens, Greece "Correlation of magnetic properties and ductile to brittle transition temperature in pipelines", By: G. Kotoula, P. Vourna, A. Ktena and E. Hristoforou
P10	C. Sokos , NTUA, Athens, Greece Depth mechanical characterization in magnetic steels using Barkhausen noise By: C. Sokos, P. Vourna, A. Ktena and E. Hristoforou
P11	P. Rafiee , University of Vienna, Austria "Lifetime Estimation of the Wire bonds in Microelectronic Devices Based on Non-Contact Modal Parameter Damage Detection Method", By: P. Rafiee, G. Khatibi
P12	M. J. Fytos , Independent Consultant, Athens, Greece "NDT personnel certification in Aerospace - the standardization work of the Forum of the National Aerospace NDT Boards"

Posters' area will be open during the whole period of the conference

Poster Title	
P13	A.E.Tsovolos , University of Portsmouth, UK <i>"Experimental Monitoring of patch repaired composite structures under curing"</i> By: A.E.Tsovolos, Z.Y.Zhang, K.Kalkanis, G.I.Tsamasphyros, G.N.Kanderakis, K.I. Giannakopoulos, Y. Botsev, M. Tur, I. Kressel, H.N. Dhakal, D.T.G. Katerelos
P14	A.E. Tsovolos , University of Portsmouth, UK <i>"Composite structure repair scheme assessment"</i> By: A. E. Tsovolos, K. I. Giannakopoulos, Z.Y.Zhang, G.I. Tsamasphyros, G. N. Kanderakis, K. Kalkanis,, P.Vouthounis, D.T.G. Katerelos, H.N. Dhakal.
P15	A.Kandaros , University of Piraeus, Greece <i>"Study of the Coefficient of Thermal Expansion of Model Parts Fabricated via Fused Deposition Modeling (FDM) Process"</i> , By: A.Kantaros, A.Bimis, D.Karalekas
P16	Zohreh Omid , Shahid Beheshti University, Tehran, Iran <i>"The study of a Neutron Scatter Removal Algorithm for Nuclear Materials Identification System neutron radiography Imaging"</i> By: Zohreh Omid, Seyed Amir Hossein Feghhi, Hamid Jafari
P17	M. Papadopoulos , Public Power Corporation S.A. (PPC), Greece <i>"The preventive, the prognostic and the interventive maintenance of industrial bearings. The relationship between the damage's diagnostic techniques and the N.D.T. & N.D.I."</i> By: M.Papadopoulos, N. Patiris, E.Sideridis
P18	M. Papadopoulos , Public Power Corporation S.A. (PPC), Greece <i>"The Contemporary Preventive/Prognostic and Interventive maintenance together with the Damages/Failures Diagnosis Technique (N.D.T & N.D.I) applied on the Infrastructures Equipment of Hellenic Electrical Power Station"</i> By: D. Pagoulatos, M. Papadopoulos, S. Kiartzis, E. Sideridis
P19	M. Papadopoulos , Public Power Corporation S.A. (PPC), Greece <i>"Industry Damages/Failures Diagnostic Technique and the Damages in large Pumping Water supplier station for Thermoelectric Power"</i> , By: M.Papadopoulos, S. Kiartzis, E. Sideridis, D.Pagoulatos
P20	S.Sahnoun , Faculty of Sciences, El Jadida, Morocco <i>"Simulation of a defect shape reconstruction for inaccessible surfaces of metals by application of pulsed thermography"</i> , By: A. ELHassnaoui, S.Sahnoun, S.Belattar
P21	S. M. Potirakis , <i>"Laboratory investigation of failure processes in heterogeneous media"</i> By: S. M. Potirakis, D. Mouzakis, D. Dimogianopoulos, S. A. Mitilineos, N.A. Tatlas, M. Rangoussi, K. Eftaxias
P22	H.C. Furtado , Electric Energy Research Center, Cepel, Brasil <i>"Remaining life evaluation of boiler pipes based on the measurement of the oxide layer thickness by ultrasonic testing"</i> By: Bruno R. Cardoso, Franco W. Comeli, Roberta M. de Santana, Heloisa C. Furtado, Luiz H. de Almeida



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