

Technical Program

Central Library, Boka, Esalem, UHBchlef

Wednesday, December 13th, 2017

08:00 – 08:30 Registration

8:30 – 9:10 Opening Ceremony

Represented of the Organizing Committee, Dr. M. Hadj Meliani
 Represented of the Scientific Committee, Dr. Meriem Ben-Ziane Madjid
 Represented of the Faculty of Exacts Sciences and informatics, Dr. Khaled El-Miloudi
 Represented of the Faculty of Technology, Dr. Abdi Bouaddellah
 Le rector of the University, Pr. Abbassi Abdellah

Plenary Lectures

Chairs : Pr. Tahar Abbess & Pr. Loukarfi Larbi, Hassiba Benbouali University of Chlef

09: 10–09:35 "أهمية الدليل العلمي في التحقيقات"
Cln. Boualem METTAI
 Direction Général du l'Institut National de Criminalistique et de Criminologie de la Gendarmerie Nationale

09: 35–10:00 "Protection des Végétaux & Usage des nouvelles Technologie"
Ing. Boualem MOKHANEK
 Directeur de la Station Régionale de la protection des Végétaux de CHLEF. Adresse : Medjadja -Route de ténès. Email : srpv_chlef@hotmail.com

10:00 – 10:25 Coffee Break

Oral Participants of the Solid Session 1

Keynote for solid Section

Chairs : Pr. Hamou Zahloul & Dr. Zidane Brahim, Hassiba Benbouali university of Chlef

10:25–10:45 **Keynote 1 : "Économie de la connaissance et de l'innovation"**
Dr. Azedine Belalia
 LME, Hassiba Benbouali University of Chlef , Algeria.

10:45–11:00 **Com 1 : Numerical simulation of the femur fracture for different cemented hip femoral prosthesis under forces during stumbling**
Mohammed El SallahZAGANE, Ali. BENOUIS, Abderahmen. SAHLI, Smail. BENBAREK
 LMPM, Department of Mechanical Engineering, University of SidiBel Abbes, Algeria.

11:00–11 :15 **Com 2 : Influence of Fiber Orientation on the Behavior of Composite Pipes Subject to Internal Pressures**
D. Said Lhadj,R. Benzidane,B.Salah
 ENSH , MVRE Laboratory, BLIDA Algeria

- 11:15–11:30 Com 3: **Experimental study of exfoliation corrosion-induced mechanical properties degradation of aluminum alloys.**
A. BRAHAMI, B. BOUCHOUICHA, J.FAJOU
 University of Djilali Liabes, Algeria.
- 11:30–11:45 Com 4: **Experimental And Numerical Simulation of The Deformation Mode And Energy Absorption Aluminum Alloy Tubing Under Uniaxial Collapse.**
GOUMGHAR. Amirouche, ZEROUKI.Marzak, OULD OUALI Mohand,Ouzeriat Ali
 University of Tizi-Ouzou, Algeria.
- 11:45–12:00 Com 5: **Influence of normal load on the tribological and thermal behaviors of copper- fiber glass composite**
Abdeldjalil BENFOUGHAL, NaciraSASSANE, LatifaALIMI Nouredine BOUGHDIR, Nihe IHAMZAOU
 Laboratoire de Génie Chimique (LGC), Blida, Algeria.
- 12:00–12:15 Com 6: **Theoretical study of structural and electronic properties of Al_xTl_{1-x}P ternary alloys**
R. BELACEL ,M. MERABET, F. ZAMI
 Université Djillali Liabes de Sidi Bel-Abbes 22000 Algérie.
- 12:15–12:30 Com 7: : **Characterization of PLC and Ludersbands on 304L TRIP steel**
Tassaditcherfi, Lydia Laaribi, Taousamrane, ,Madjid Almansba, Band Rabehferhoum
 University of Mouloud Mammeri, Tiziouzou, Algeria
- 12:30–12:45 Com 8: **Numerical investigation of the geometry influence on the aerodynamic fields of the free turbulent jets**
Bouhamidi Y.
 Controls, Testing, Measurement and Simulation Mechanical laboratory , University of Chlef, Chlef, Algeria

12:45 – 14:00 Lunch

- 14:00–14:15 Com 9: **Analysis of the thick beams**
Lemya Hanifi Hachemi Amar, ZAOU Fatima Zohra, Abdelhakim Kaci, Abdelouahed Tounsi
 University, of Saïda, Algeria
- 14:15–14:30 Com 10: **Nanoindentation Applied to the Study of Metallic Materials**
Habibi Samir, Ould Chikh Bahri, Zaim Abdenour
 University, of Mascara, Algeria
- 14:30–14:45 Com 11: **Caractérisation d'un cordon de soudure par FSW dans le cas des matériaux Polymères**
Hachellaf Kaddour1, Meddah H.Miloud1, Ould Chikh El Bahri1, Lounis Abdellah1
 Laboratoire LSTE, Université Mustapha Stambouli de Mascara, Algérie
- 14:45–15:00 Com 12: **Effect of the Orientation of the Fibers on J-Integral of Repaired Cracks in Notched AA7075-T6 Structures Subjected to Uniaxial Tensile Stresses**
Y. Chahraoui, M. Khodja, H. Fekirini
 University of Sidi-Bel Abbas, Algeria
- 15:00–15:15 Com 13: **First-principles calculation of structural and volume thermal expansion of CuGaTe₂ ternary chalcopyrite solar cell materials**
R.Mahdjoubi, Y.Megdoud, S.Cheddadi, H.Meradji, S.Ghemid
 Université Badji Mokhtar, 23000 Annaba, B.P. 12, Algeria
- 15:15–15:30 Com 14: **Ab initio calculations of the structural, electronic and thermoelectric properties of II-IV-V ternary chalcopyrite**
N. Si Ziani, H. Bouhani-Benziane, M. Baira, A E K. Belfedal, M. Sahnoun
 Université Mustapha Stambouli, Mascara, Algeria

15:30 – 16:00 Coffee Break

Oral Participants of the Fluid Session 2

Keynote for Fluid Session 2

Chairs : Pr. Meriem Benziane Madjid & Pr. Hocine Abdelkader

- 10:25–10:45
- 10:45–11:00 Com 1 : **Modeling and simulation of the water hammer phenomenon in drinking water networks**
D. Said Lhadj, B.Salah
 National High School for Hydraulics (ENSH),MVRE Laboratory,BLIDA Algerie.
- 11:00–11:15 Com 2 : **Pressure Loss Analysis for Flow within a Curved-Wall Convergent**
M. Mechalikh, A. Benhamou, P.Maspeyrot
 University of Hassiba Benbouali Chlef. Algeria
- 11:15–11:30 Com 3 : **FIRE ANALYSIS OF AN OPEN CAR PARK BUILDING STRUCTURE**
G. Habbar, P. Piloto A. Benarous
 University of Hassiba Benbouali Chlef. Algeria.
- 11:30–11:45 Com 4 : **Simulation of a Non-Premixed Flame using the OpenFoam Solver**
C. Bensalem, M. Alliche, A. Benarous
 University of Hassiba Benbouali Chlef. Algeria
- 11:45–12:00 Com 5 : **Non-Newtonian fluid flows through a backward facing step**
Houari Ameer, Djamel Sahel, Youcef Kamla
 Department of Technology, Institute of Science and Technology, Naâma, Algeria
- 12:00–12:15 Com 6 : **The effects of thermal buoyancy strength and inclination angle on steady flow and heat transfer of incompressible fluid around a heated square cylinder.**
Laidoudi Housseem, Bouzit Mahamed
 University of Oran , Algeria
- 12:15–12:30 Com 7 : **Free vibration of sandwich FGM beams**
M. Bouamama, A. Elmeiche, K. Refassi, A. Megueni
 University of SidiBel Abbes Algeria.
- 12:30–12:45 Com 8 : **Elaboration and characterization of thin films of ZrO₂: Ni-doped using the Dip-coating technique.**
S. MOKRANE, B.Benrabah2, B.ABIDRI
 University, DjillaliLiabes de Sidi Bel-Abbes, Algeria

12:45 – 14:00 Lunch

- 14:00–14:15 Com 9 : **Laminar Free Convection Heat Transfer in a square cavity with heat source of different lengths**
Abderrahmane AISSA1, R FARES3, A MEDDEBER 1, HABIBI Samir
 University of Mascara, , Algeria.
- 14:15–14:30 Com 10 : **Simulation Numérique De L'écoulement Autour D'une Hélice Série "B" B4-75**
F. Bouregba, M. Belkadi, M. Aounallah
 Laboratoire-Hydrodynamique Naval(LAHN) USTO MB, BP 1505 El M'naouer, USTO, Oran Algeria

- 14:30–14 :45 Com 11: **3-D modeling of heat transfer in Friction stir welding**
Z. Harchouche, M. Zemri, A. Zerrouki
 University of Sidi-Bel-Abbes, Algeria
- 14:45–15:00 Com 12: **Dynamics and Thermal Study of a Fire-Induced Ceiling Jet**
K. Nechab, P. Piloto, A. Benarous
 University of Chlef, Algeria
- 15 :00–15 :15 Com 13: **Prediction of Reliability Analysis of Composite Tubular Structure Under Hygro-Thermo-Mechanical Loading**
A. Maizia, Abdelkader Hocine, Hocine Dehmous, and David Chapelle
 University of Chlef, Algeria
- 15 :15– 15 :30 Com 14: **Etude comparative des performances de deux types d'agitateurs mécaniques (bipale et ancre)**
Y. KAMLA, H. AMEUR, A. HADJEB, D. SAHEL
 University of Chlef, Algeria

15:30 – 16:00 Coffee Break

16:00 17:00 Poster Presentation Solid session 1

- Post :1 **Analyse de flambement des plaques isotropes**
KLOUCHE Faiza, HANIFI HACHEMI AMAR Lemya , SAHRAOUI Amel, TOUNSI Abdelouahed
 University of Mostaganem, Algeria
- Post :2 **Identification Approaches for Steel Strip Surface defects in Hot Rolling Process**
Z. Mentouri, A. Moussaoui, D. Boudjehem, A. Boudiaf, S. Ziani
 University of, Guelma, Algeria
- Post :3 **Modélisation par Abaqus du comportement d'un composite Epoxy/ SIC Endommagé par des fissures matricielles inclinées**
Y. Chahraoui, M. Khodja, B. Serier, H. Fekirini
 University of SidiBel Abbes, Algeria
- Post :4 **Study of the effect of the concepts of mechanics of rupture on the damage of materials welded on X70**
A .Deliou, B. Bouchouicha, k. Belkaid
 University of SidiBelabbes, Algeria
- Post :5 **Free vibration analysis of carbon nanotube-reinforced composite plates resting on elastic foundation**
Ahmed Bakora, Fouad Bourada, Mamia Benchohra, Mamia Ahouel, Abdelouhed Tounsi
 University of Sidi Bel Abbes Algeria
- Post :6 **Contribution à l'étude de vibration des structures plaques en FGM sur fondations élastiques en utilisant une nouvelle fonction de cisaillement.**
Zine Abdallah, Mahmoudi Abdelkader, Sekkal Mohamed, Fahsi Bouazza, Benyoucef Samir, Tounsi Abdelouahed
 Centre Universitaire Ahmed Zabana Relizane, Algeria
- Post :7 **Classification in an infrared image of material with defects**
K. Gherfi, Y. Laib dit Leksir, H. Bendjama, M. Tria, D. Idiou, L. Cherradand R. Boulkroune.
 Research Center in Industrial Technologies, Algeria
- Post :8 **Surveillance des machines tournantes par analyse vibratoire**
A, Deliou, B. Bouchouicha, K. Belkaid, I. Atoui, B. Oudjani
 Université of Sidi Belabbes, Algérie
- Post :9 **Free vibration analysis of chiral double-walled carbon nanotube embedded in an elastic medium using non-local elasticity theory**
K. RAKRAK, M. ZIDOUR, A. CHEMI, H. AYAT
 University of Tiaret, Algeria

- Post :10 **Étude Expérimentale de l'Usinabilité de l'acier 42 Cr Mo4 avec des Outils en Carbure revêtu et non revêtu.**
B. Hamadi, L. Boulanouar, M.A. Yaltese, H. Bekouche
 University of Annaba, Algeria
- Post :11 **Optimization of Damage Parameters of the GTN Model for PVC**
H. Khellafi, T. Houari, H.M. Meddah, B. Ould Chikh El Bahri and M. Bendouba
 University of Mascara Algeria
- Post :12 **Etude analytique du comportement mécanique d'un nanotube de carbone type armchair**
Ammar BOULAL, Mohamed MEDANI, Mohamed ZIDOUR, Abdelnour BENZAIIR, Houari HEIRECHE
 University of Tيارت, Algérie
- Post :13 **Détermination des contraintes résiduelles des plaques en matériau composite** **Moussa Abualnour, Kheira Soltani, Fatima Zohra ZAOU**
 University of Mustapha Stambouli à Mascara, Algeria.
- Post :14 **Etude analytique de la flexion des poutres composites avec une fraction volumique variable des fibres**
A. Mouffoki, M. Sid Ahmed Houari, A. Bessaim, A. Tounsi
 University of Sidi Bel Abbes, Algeria
- Post :15 **Etude dynamique des structures à section en matériaux FGM reposant sur des fondations élastiques**
Hafida Driz, Salima Abdelbari, Hayet Saidi, AEK Fekrar, Abdelouahed Tounsi, El Abbes Adda Bedia, Abdelkader Benachour
 Laboratoire (LMH) Matériaux et Hydrologie, Université de Sidi Bel Abbes, Algeria
- Post :16 **Prédiction numérique du champ dynamique d'un diffuseur à jet lobe**
S. Nechad, A. Khelil, Y. Bouhamidi, L. Loukarfi
 University of Chlef, Algeria
- Post :17 **COMPARING THE BUTT WELDING AND WELDING FSW FOR HIGH DENSITY POLYETHYLENE (HDPE)**
Mustapha KAID, Mokhtar ZEMRI
 University of Sidi Bel Abbes, ALGERIA
- Post :18 **Finite Element Computed of Frictional Contact Model of an Elastic Sphere Under Combined Normal and Tangential Loading**
A OUZERIAT, M. Ould Ouali, M. Zerouki, A. Goumghar
 University Mouloud MAMMARI of Tizi-Ouzou, BP 17RP. Algeria..
- Post :19 **Modeling the cyclic behavior of concrete**
A. Alioua, T. Messafer, M.S. Kachi
 University of Tizi-Ouzou, Algeria.
- Post :20 **A New HSDT Theory For Functionally Graded Plates**
M. Benchohra, H. Driz, A.H. Benchohra, M. Ahouel, A. Bakora, M. Bourada, A. Tounsi
 University of Sidi Bel Abbes, Algeria
- Post :21 **Numerical Simulation of Flow Past a Circular Cylinder**
M. BEDROUNI, A. KHELIL, K. LAZEREGUE, M. BRAIKIA, Y. BOUHAMIDI, S. NECHAD, A. BENNIA
 Center Salhi Ahmed of Naâma, Algeria.
- Post :22 **Transverse Shear Effect on the Static Behavior of Functionally Graded Sandwich Plate**
Hamidi Ahmed1, Zidour Mohamed2, Sadoun Mohamed3, Belmahi Samir2
 University of Bechar, Algeria

- Post :23 **Etude Thermique d'un Multi jet Tourbillonnaire Impactant en mode Confiné**
M. Braikia, A. Khelil, L. Loukarfi, W. Medouar, Y.Bouhamidi
 University, Hassiba BenBouali of Chlef, Algeria.
- Post :24 **Analyse expérimentale et analytique d'un palier hydrodynamique**
MayaSaeed AbdullahABDELWAHAB, MiloudTAHAR ABBES
 University of Chlef, Algeria
- Post :25 **Mixing Sequences Influence on Mechanicals Strengths in Flexion of Self-Consolidating Concrete Reinforced with Various Kinds of Fibers: Corrugated Steel Fibers, Polypropylene Fibers and Metal chips.**
S. Chaib, R. Lassoued
 University of Constantine, Algeria
- Post :26 **First-Principles Study of the Structural and Electronic Properties of (GaSb)_n/(AlSb)_mSuperlattices**
O. Cheref, S. Benalia, D. Rached
 University of SidiBel-Abbe, Algeria
- Post :27 **Evaluation of Fracture Parameters Using a Virtual Strain Gage approach in SENT Specimen**
F. Khelil,a ,S. Zengah, F. Benaoum,N. Benhamena, M.khaldi
 University Mustapha Stambouli, Mascara, Algeria
- Post :28 **Etude du renforcement des voiles couplés hybrides par un matériau composite**
L. Madouni, M. Ould Ouali, A. Kris, A. Ouzeriat, N.E. Hannachi
 University Mouloud MAMMERRI of Tizi-Ouzou, Algeria
- Post :29 **Etude numérique de l'interaction des jets tourbillonnaires impactants**
Youcef Bouhamidi, Ali Khelil, Mohamed Braikia, Said Nechad ,Jarbi loukarfi
 University of Chlef, Algeria
- Post :30 **Multi Resolution Analysis Applied to Digital Image Compression of Surface Defect of Rolled Steel-Strip**
AdelBoudiaf1, Amine Dahane2, Boulkroune Soufiane1.Rachid Zaghoudi1,Zohier Mentouri1,Samira.teleb1,Ziani Sliman
 University of Sciences and Technology, Oran, Algeria.
- Post :31 **Effet des parametres geometriques sur l'absorption de l'impact d'un panneau orthogrid**
Hamamousse K, Sereir Z, Benzidane R
 University of Sciences and Technology, Oran, Algeria.
- Post :32 **Flambement thermique des plaques non homogène en utilisant unenouvelle théorie de déformation**
Taleb Ouahiba ,Mouffoki Abderrahman, Mahmoudi Abdelkader, FahsiBouazza Benyoucef Samir1 Tounsi Abdelouahed
 Laboratoire des Matériaux et Hydrologie, University of de Sidi Bel Abbes, Algeria.
- Post :33 **Analyse du comportement mécanique des plaques épaisses en matériaux à gradient de propriétés sous un chargement thermique**
A. Bessaim, A. Mouffoki, Tarek Houari, M. Sid Ahmed Houari, A. Tounsi
 University of Sidi Bel Abbes, Algeria
- Post :34 **The behavior static of sandwich plates with FG faces**
Hafida Driz, Mamia Benchohra, Yamina Chahraoui, Ahmed Bakora, Abdelouahed, Tounsi,El Abbes Adda Bedia, Abdelkader Benachour
 University of Sidi Bel Abbes, Algeria
- Post :35 **Analysis of reinforced concrete beams reinforced by composite materials**
F. Benaoum, F. Khelil, Z. Sereir, A. Bennegadi, A. Benhamena
 LPQ3M laboratory, facult of Science and Technologies, University Mustapha Stambouli, Mascara, Algeria.

Post :36 **Etude Expérimentale et Numérique de l'effet de Chargement Uniaxiale sur le Comportement du Bourrelet (Joint de soudure) en PEHD**

A. BELAZIZ, M. MAZARI

Université Sidi Bel Abbés, Algérie.

Post :37 **Simulation numérique du retard de propagation des fissures d'une structure fissurée et réparée**

A. BELAZIZ, M. MAZARI

Université Sidi Bel Abbés, Algérie

16:00 17:00 Poster Presentation Fluid Session 2

Post :36 **Simulation of the temperature variation in a solid material in the absence and in the presence of the defect**

Sofiane BOLKROUNE, Adel BOUDIAF, Mohamed CHAOUR, Mounira BOUREBIA

Research Center in Industrial Technologies CRTI, Algeria

Post :37 **Ab-initio study of electrical and thermal transport properties of single filled of ternary Skutterudites**

Z.Benhalima, A.Bekhti-Siad, H.Bouhani-Benziane, O.Sahnoun, N.Si Ziani, M.Sahnoun

University of Mascara, Algeria

Post :38 **A Comparative Study between Numerical Compressible Schemes: Application to Boundary Layer Separation Prediction**

R. Dehane, A. Benarous, A. Liazid

SONATRACH/GLIZ, New Projects Department, Arzew, Algeria

Post :39 **Numerical investigation of hydrodynamic nanofluid convective flow in a porous enclosure**

FARES Redouane, Abderrahmane AISSA, A MEDDEBER AID abdekrim

University of Sciences et de la Technologie - Oran, Algeria

Post :40 **Towards a thermal characterization of a firefighters protective clothing**

S. Dahamni, A. Benarous

University of chlef, chlef Algeria

Post :41 **Aerodynamic Shape Optimization of NACA0012 Profile using MMO Method**

Abd Ellatif AMOR, Ramzi MDOUKI, Ahmed BETTAHAR

University of chlef, chlef Algeria

Post :42 **A novel and simple HSDT for thermal buckling response of functionally graded sandwich plates**

B. ELMOSSOUESS, M. BACHIR BOUIADJRA, S.KEBDANI

University of ORAN, Algeria

Post :43 **Critical buckling load of chiral double-walled carbon nanotube using non-local theory elasticity**

A .Chemi, K.Rakrak, M. Zidour, H .Heireche

Université de Sidi Bel Abbés, Algérie

Post :44 **Numerical Modeling Of Road Stabilization System.**

Amina ABDI, Pr Toufik KARECH, Abdeljalil REMADNA

Université de Moustafa ben Boulaid-Batna, Algeria

Post :45 **Simulation of turbulent flow in an unbaffled stirred tank driven by a curved turbine**

M. Foukrach, M. Bouzit

USTO-MB 1505 EL M'naouar, Oran, Algeria

19:00 Round table at hotel El-Wancharissi

Directed By : **Prof. A. Bettahar, Prof. Larbi Loukarfi & Prof. H. Zahloul**

Objectives : Transfer of Technology : more than 1/4 cycle on the Scientific researches

Thursday, December 14th, 2017

Keynote for solid Session 1

Chairs : Dr. Azedine Belalia, Hassiba Benbouali University of Chlef

08 :30– 09 :00

Oral Participants of the Solid Session 1

09 :00– 09 :15

Com 15 : **Contribution to the development of a new approach for calculating 3D manufacturing tolerances**

F.MESSAOUD, M. RAHOU, F. SEBAA

University of Tlemcen,1300Tlemcen ,Algeria

09 :15– 09 :30

Com 16: **Finite element analysis of the cement behaviour of reconstructed acetabulum after load application**

T. Bousnane, S.Benberak, A.Sahli

University Sidi Bel Abbès, 22000, Algérie.

09 :30– 09 :45

Com 17 : **Analysis of the porosity effect of functionally graded beams (FGM) in vibrational Sollicitations**

H. Fourn, R. Bennai, B. Ayache, H. AIT Atmane

University of SidiBel Abbès, Algeria

09 :45– 10 :00

Com 18: **Development of a New Euler Stress Formula For Buckling Analysis of Rectangular Plate Under a Mechanical Loads**

Fouad.Bourada, Mama. Ahouel, Ahmed. Bakora, Abdelouahed Tounsi

University Center BelhadjBouchaib of AinTemouchent, Algeria

10:00 – 10:30 Coffee Break

10 :30-10 :45

Com 19 : **Propriétés structurales et optiques des couches minces de SnO₂ déposés par spin-coating**

N. Ouafek, F. Boufelgha, H. Dahdouh

Research Center in Industrial Technologies CRTI, P. O. Box 64 Cheraga 16014, Algiers, Algeria

10 :45-11 :00

Com 20 : **Analysis of the plane elasticity problem in a cracked medium by the extended finite element method XFEM**

A. Taghezout, A. Aid, M. Bendouba, Hm.Madah, H.Khalafi

University of Mascara, Algeria

11 :00-11 :15

Com 21 : **Prediction of the mechanical properties of a composite "concrete" by different methods of homogenization (semi-analytical and asymptotic method)**

K. Benyahi1, Y. Bouafia, M.S. Kachi, M. Tebani.

University of Tizi-Ouzou,UMMTO, BP 17 RP15000, Tizi-Ouzou, Algeria

11 :15-11 :30

Com 22 : **L'effet de la forme et l'emplacement des chicane dans un système agité par une turbine de Rushton**

M. Foukrach, M. Bouzit, Y. Kamla, A. Houari,

Mechanical faculty of Engineering, USTO-MB 1505 EL M'naouar, Oran, Algeria

11 :30-11 :45

Com 23 : **Study of the mechanical stability of nano-beams in heterogeneous material**

Mama Ahouel, FouadBourada, Fatima Zohra Zaoui, Abdelouahed Tounsi

- Laboratory of materials and hydrology, University of Djillali Liabes, 22000, Sidi-Bel-Abbes, Algeria
- 11 :45--12 :00 Com 24 : **Treatment and Reuse of Dredged Sediments from the dam Fergoug in Road Construction.**
A. Benaissa, Z. Aloui, Daniel Levacher
 University, of Djillali Liabes, Department of Civil Engineering, Fac.Technology
- 12 :00--12:15 Com 25 : **FINITE ELEMENT ANALYSIS OF STONE COLUMN INSTALLATION**
A.Remadna, S. Benmebarek, A. Abdi
 NMISSE Laboratory, Civil Engineering and Hydraulic Department, Mohamed Khider-Biskra University, Algeria
- 12 :15--12:30 Com 26 : **Numerical analysis of the seismic response of rock fill: pile-supported wharf on sliver rock dike case.**
L. Deghoul, S. Gabi
 Tizi-Ouzou, Algeria
- 12 :30--12:45 Com27: **Introduction du comportement mécanique des structures non homogènes sur une assise élastique**
Nebab Mokhtar 1, Ait atmane Hassen
 University of Chlef, Algeria

12:45 – 14:00 Lunch

- 14:00--14:15 Com 28 :**Improvement of the Interfacial Adhesion Between Fiber and Matrix**
N. Mahmoudi,A. Benaoum
 Laboratoire Génie Industriel et Développement Durable, Centre Universitaire Relizane
- 14:15--12:30 Com 29 **Investigation and correction of errors fabrication**
F. MESSAOUD , M. RAHOU, F. SEBAA
 Université de Tlemcen, Algeria
- 14 :30--12:45 Com 30 : **Crack initiation and propagation in HDPE under tensile loading**
A. Zerrouki, A. Boulouar, M. Mazari, Z. Harchouche
 University of SidiBel Abbes 22000, Algeria
- 14 :45--15:00 Com 31 : **Modèle Expérimental De Réparation Symétrique Par Patch En Carbone/Epoxyde Des Structures Métalliques Fissurées**
N. Deghoul1, L. Errouane1, Z. Sereir1
 University of Oran, Algérie

16:00 – 16:30 Coffee Break

Thursday, December 14th, 2017

Keynote for Fluid Session 2

Pr. Meriem Benziane Madjid & Pr. Hocine Abdelkader

08 :30– 09 00

Oral Participants of the Fluid session 2

- 09 :00– 09 :15 Com 15: **Free Natural Convection In Vertical Annular Cylinder In Porous Medium**
Mohamed Amine MEDEBBER, Abderrahmane AISSA, Fares redouane, Nouredine RETIEL
 Université de Mostaganem, Algeria
- 09 :15– 09 :30 Com 32: **3D FE analysis of the Elliptical Cracks emanating from interface in OrthopedicCement of the THP**
Ali Benouis, Mohammed El Sallah Zagane, Mohamed Cherfi ,AbderahmenSahli , Boualem Serier
 University of Saida, Algeria
- 09 :30– 09 :45 Com 33: **Etude ab-initio des propriétés structurales, électroniques et magnétique des composés semi Heusler de type XYZ (NaCaB et NaCaC) avec la GGA et la TB-mBJ**
BENABBOUN Radjaa, BOURADA Fouad, MESRI Dalila, TADJER Abdelkader
 University, of Djillali Liabes , Algeria
- 09 :45– 10 :00 Com 34: **Experimental and Numerical Studies for the Effect of Aging Adhesive Using for Patch Composite Repair**
M. BEZZERROUKI1, B. BACHIR BOUIADJRA, K. MADANI
 University DjilaliLiabes de Sidi-Bel-Abbès, Algeria
- 10 :15– 10 :30 Com 35: **Contribution to the modeling of the hyperelastic behavior of the arterial wall**
K. AIMENE, M. OULD OUALI
 Université Mouloud MAMMERI de Tizi-Ouzou, Algérie

10:00 – 10:30 Coffee Break

- 10 :30– 10 :45 Com 36: **Comparaison Entre La Détermination Analytique Et Numérique Du Facteur D'intensitéDe Contraite Et l'Intégrale J pour CT 75**
A.Bensari, B. Bouchouicha, B. Ould chikh,M. Tirenifi, S. Kouadri,H.M.Meddah
 University, Sidi Belabbes, Algérie
- 10 :45--11:00 Com 37 : **Effect of implant shape on the mechanical behavior of bones under dynamic loading**
W. Bensmain, M. Benlebna, B. Serier
 University of SidiBel Abbes, Algeria
- 11 :00--11:15 Com 38 : **Analyse de la Vibration Libre des Plaques Isotropes Epaissees en Utilisant une Théorie de Déformation de Cisaillement Trigonométrique**
Ahmed BOUKHARI, Mohamed SEKKAL, Taleb Ouahiba, Bouazza FAHSI, Samir BENYOUCEF, Abdeloauhed TOUNSI
 University of Sidi Bel Abbes, Algérie
- 11 :15--11:30 Com 39 : **Dynamic Behavior Analysis of Advanced Composites Structures**
I. Ait Sidhoum, F.Bourada S.Benyoucef, A.Tounsi
 University of Sciences and Technologie d'ORAN , Algérie

- 11 :30--11:45 Com 40 : **The Ewf Method On Hdpe Digital And Experimental Study**
HOUARI TAREK, BENGUEDIAB MOHAMED , HOUARI MOHAMED .S, KHELLAFI HABIB
 University of Mascara, Algérie
- 11 :45--12:00 Com 41: : **Study of the Crack Propagation of a Polyethylene**
S. LIAMANI
 Université of Sidi Bel Abbès, Algérie
- 12 :00--12:15 Com 42 : **Calcul des contraintes d'interface dans un nano-composite (Polymère/nanotube de carbone type zigzag).**
Mohamed MEDANI, Ammar BOULAL, Mohamed ZIDOUR, Abdelnour BENZAIIR, Houari HEIRECHE
 Université of Tiaret, Algeria
- 12 :15--12:30 Com 43 : **A Higher-Order Shear Deformation Theory for Dynamic Behavior Analysis of Advanced Composite Beams**
ZAOUI Fatima Zohra, ISSAD Mohamed Naim, AHOUAL Mamia, ABU ALNOUR Moussa, TOUNSI Abdelouahed, OUINAS Djamel
 Laboratoire de Modélisation Numérique et Expérimentale des Phénomènes Mécaniques (LMNEPM), Université Abdelhamid Ibn-Badis, Mostaganem, Algeria
- 12 :30--12:45 Com 44 : **Development of Methodology of Characterization of a Material by Nanoindentation**
Habibi Samir, Daikh Abdelkader, Aminallah Laid, Aissa Abderrahmane, OuldChikh Bahri
 University, of, Mascara, Algeria

12:45 – 14:00 Lunch

- 14 :00--14:15 Com 45: **L'effet de la forme du patch sur la qualité de la réparation des structures fissurées**
N. Mahmoudi, S. Hcini, A. Benaoum, M. Bouanini, B. Bachir Bouiadja
 Laboratoire Génie Industriel et Développement Durable, Centre Universitaire Relizane
- 14 :15--14:30 Com 46 : **Numerical study of semi-elliptical crack of API X70 pipeline**
Bassam Gamal Nasser MUTHANNA, Madjid MERIEM-BENZIANE ,IbrahimGADI
 LRM, University of Chlef, Esalem City, 02000, Chlef, Algeria
- 14:30--14:45 Com 47: **Efficacy of the Green Inhibitors corrosion in HCl Acid on the Mechanicals Properties of API 5L X52**
SOUDANI Mohamed, M. Hadj Meliani, El-Miloudi Khaled, BOULEDROUA Omar, C.Fares, M.A.Benghalia
 LPTPM, University BenBouali of Chlef,
- 14:45--15:00 Com 48: **Hydrogen Embrittlement Effect on Structural Assessment Integrity of API 5L X52 Pipeline Steel**
O. Bouledroua , M. Hadj Meliani , G. Pluvinage
 LPTPM, University BenBouali of Chlef
- 15:00--15:15 Com 49: **AN APPROACH TO OPTIMIZE GTAW WELDING PARAMETERS BY USING DESIGN OF EXPERIMENTS TO REDUCE THE EFFECT OF STRESS CORROSION**
Belkacem Amine KESSAL, Chahinez FARES
 LPTPM, University BenBouali of Chlef