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<td>09h00-10h30</td>
<td>Opening address by the Rector Pr : <strong>Mohamed-Tahar ABADLIA</strong></td>
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<td>History of the Faculty of Hydrocarbons and Chemistry / The Dean of the Faculty Pr : <strong>HABI Idir</strong></td>
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<td>Address by the representative of the Ministry of Higher Education</td>
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<td>10h00 - 10h30</td>
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<td>Plenary presentation by <strong>Pr. C. DERAIL /University of Pau et pays de l’Adour (UPPA)</strong></td>
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<td>11h30 – 12h00</td>
<td>Plenary presentation by <strong>Pr. Bassem S. Nabawy</strong> Professor of petrophysics and core analyses, Department of Geophysical Sciences, National research center, Egypt.</td>
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<td>12h00 – 12h30</td>
<td>Plenary presentation by <strong>Mr. Ilhane DIB</strong> Member of the International Gas Union.</td>
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**GEOSCIENCES**

08 April 2019  
CENTRAL LIBRARY, ROOM 1  

SESSION CHAIR: Pr SAADAOUl Moussa; Pr CHAOUCHI Rabeh

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<td>Pr CHAOUCHI,R</td>
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<td>14h20-14h40</td>
<td>Ms. BELKACEMI.A</td>
<td>Stratigraphic sequential analysis and oil interest of the upper Silurian - lower Devonian (F6 reservoir) of Southeastern Algerian Sahara: case of Hassi Mazoula field and its bordering regions (Illizi basin).</td>
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<td>14h40-15h00</td>
<td>Dr LOUMI.K</td>
<td>Cartographie du massif d’Aït Douala : un demi dôme ou un dôme métamorphique extensif et bassins sédimentaires associés.</td>
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<td>15h00-15h20</td>
<td>Dr ZELLOUF.K</td>
<td>A Model of mapping and measuring processes of hydric erosion in coastal mediteranean zone; case study: the lower isser the isser oued valley Algeria</td>
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<td>15h20-15h40</td>
<td>Dr BAOUCHE.R</td>
<td>Petrophysical Characterization of Lower Triassic Formation of Southern Hassi R’Mel and Permeability Prediction with Fuzzy Logic Analysis. Algeria.</td>
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<td>Ms. KENANE.S</td>
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<td>Ms. SETTAOUL.C</td>
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<td>Pr AITOUCHE.M</td>
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<td>Mr. ALI KHOUDJA Sid Ahmed</td>
<td>Les différents régimes diagénétiques du réservoir Dévonien dans le bassin de Berkine</td>
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<td>Mr. AKBI Hicham</td>
<td>3D Geological modeling of compartmentalized reservoirs case study Berkine Basin</td>
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<td>Ms. YSBAA Saadia</td>
<td>Contribution of GIS in mapping of the mineral resources of the eastern part of Algeria, applications, data processing and interpretation</td>
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<td>Ms. BOUKHEMIA Fatma Zohra</td>
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<td>Ms. YEMMEL HAYET</td>
<td>Etude biostratigraphique et statistique des bioassociations de Foraminifère de la limite Plaisancien-Astien de la région de Koléa (Sahel Ouest Algérois)</td>
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<td>Ms. BELKACEMI AMEL</td>
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Ms. HALIMA SAADIA ZANOUDA  
Petrological and Geochemical characteristics of the Triassic Ophites of Sidi el-Hemessi (Souk Ahras, Algeria)

Mr. TIOUGUIOUINE Rachid  
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Ms. OUIBRAHIM Zohra  
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### 9 April 2019  
10h30-11h00

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<td>Mr. ELBEGUE AREF AABDERRAHMANE</td>
<td>Contributions and limits of ancient aero-geophysical surveys to solve modern geological mapping problems.</td>
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<td>Mr. CHAIB Oussama</td>
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<td>Ms. CHERANA Amina</td>
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<td>Mr. GUEZEI Abdelali</td>
<td>The use of poststack model-based inversion and RNA (MLFN) for the estimation of acoustic impedance and porosity. Application sur le basin de berkine</td>
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Aero-geophysique data processing and analysis for uranium potential evaluation in the zone of Tinfelki (Hoggar).

Mr. ALIOUANE Leila
Clay volume estimation in tight sand unconventional reservoirs from

Mr. BOUCHAOUI ILYES
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Mr. SNOUCI MOHAMED
The role of magnetic and radiometric anomalies in hydrocarbon identification: two cases studies

Mr. BENALLAOUA SOFIANE
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**Process Engineering and Environment / Environment Health and Safety**

08 April 2019  
CENTRAL LIBRARY, ROOM 2  

SESSION CHAIR: Pr O. KADDOUR AND Pr N. NASRALLAH

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<td>DAHOU Meriem</td>
<td>Upgrading low density polyethylene waste into grease</td>
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<td>METATLA Hassina</td>
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<td>BEDDA Kahina</td>
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<td>BEN BOUABDALLAH Amina</td>
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## Process Engineering and Environment / Environment Health and Safety

09 April 2019  
CENTRAL LIBRARY, ROOM 2

**SESSION CHAIR:** Pr. M. NABIEV AND Pr. H. MIMOUNE

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<td>Adsorption capacities of low-cost sorbents for wastewater treatment</td>
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<td>OUADAH Amina</td>
<td>Novel copolymer based sulfonated polystyrene and diphenyl ethylbenzimidazolium as electrolyte for fuel cell application</td>
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<td>QSPR-ANN Estimation models for critical pressure and critical volume of pure hydrocarbons using MLR and MLP-ANN methods</td>
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<td>BOUKOBERINE Yamina</td>
<td>Photo catalytic oxidative desulfurization of the kerosene Jet A-1 and Gasoil fuels using the W, Ce and Ru noble transition metals supported on γ-Al_{2}O_{3}-ZnO and γ-Al_{2}O_{3}-SiO_{2} catalysts</td>
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**Process Engineering and Environment / Environment Health and Safety**

**08 April 2019**

**16h00 – 16h30**

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<td>Microbial contamination of stored diesel fuel</td>
<td>BENSEBIA Ouahida</td>
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<td>Heavy metals removal from chemical effluent by Coagulation and Flocculation Processes using the CCD method</td>
<td>DEMIM Soraya</td>
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<td>Efficient removal of organic pollutant by Zn-Al-LDH materials synthetized by the co-precipitation method</td>
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<td>NOVEL ACTIVATED CARBON DERIVED FROM LUFFA CYLINDRICA AS A PHOTOCATALYSIS PRECURSOR</td>
<td>BOUMAD Souad</td>
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<td>Vanadium-catalyzed extractive oxidesulfurization of commercial diesel in ionic liquid with combined oxidizing Agents</td>
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<td>Thermal cracking of polyethylene waste to obtain a synthetic oil</td>
<td>DAHOU Meriem</td>
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<td>Increasing the treatment capacity of the Algiers refinery by installing a crude pre-distillation column at the topping unit</td>
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<td>Extraction and quantitative determination of Co (II) and W (VI) using crown ether 6-hydroxy-DB-9-C-6) when present simultaneously</td>
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<td>Characterization of polyacrylamides or modified polyacrylamides for enhanced oil recovery</td>
<td>BOUNABI Leila</td>
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<td>Extractive distillation of ethanol-water mixture using ionic liquids</td>
<td>GUELLA Fadia</td>
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<td>Thermal cracking of polyethylene waste to obtain a synthetic oil</td>
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**9 April 2019**

**10h30-11h00**

**Process Engineering and Environment / Environment Health and Safety**

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<td>CHEIKH Sabrina</td>
<td>Biobased antioxidant additive for Diesel fuel: Synthesis and Mechanism of action</td>
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<td>Salting effect on the liquid-liquid equilibrium of the ternary system (water + acetic acid + dichloromethane)</td>
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<td>LABADLIA Fatma Zohra</td>
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<td>QSPR-ANN and QSPR-MLR estimation models for normal boiling point temperature and critical temperature of pure hydrocarbons and petroleum fractions</td>
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<td>AGA Sara</td>
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## ORAL SESSION

### ELECTRICAL ENGINEERING IN THE OIL INDUSTRY

08 APRIL 2019
CENTRAL LIBRARY, ROOM 4

SESSION CHAIR: Pr Bouchra NADJI, Dr Omar BENDJEGHABA

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<td>Mr Sefsaf Hemza</td>
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<td>Ms Bounoua Wahiba</td>
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<td>16h00-16h30</td>
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<td><strong>Coffee Break + Poster Session</strong></td>
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### POSTER SESSION

**ELECTRICAL ENGINEERING IN THE OIL INDUSTRY**

**08 April 2019**

**16h00 – 16h30**

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL ENGINEERING IN THE OIL INDUSTRY</strong></td>
<td></td>
</tr>
<tr>
<td>Dual Randomized Space Vector Modulation for Inverter-fed Induction Motor Drives</td>
<td>BOUDOUDA AIMAD</td>
</tr>
<tr>
<td>Implementation fuzzy logic control using Dspic microcontroller. Application for drive process control</td>
<td>FEKKAR H</td>
</tr>
<tr>
<td>Modeling the molecular weight of polypropylene during the photothermal aging using artificial neural network</td>
<td>MAOUZ HADJIRA</td>
</tr>
<tr>
<td>Stand alone PV system for desalination unit in arid areas: case study with storage energy</td>
<td>TIGRINE ZAHIA</td>
</tr>
<tr>
<td>Non-singular terminalsliding mode control for aerial manipulator</td>
<td>RIACHE SAMAH</td>
</tr>
<tr>
<td>Rotor Speed and Flux Estimation of a Doubly-fed Induction Machine Using Extended Kalman Filter</td>
<td>BOUSSOUFA AHMAD</td>
</tr>
<tr>
<td>Electronic, Magnetic properties of Os2ZrSn Heusler alloys: An FP-LAPW study</td>
<td>BOUGHENA AMINA</td>
</tr>
<tr>
<td>Transient stability analysis of industrial power system including the integration of induction Generators</td>
<td>DJALTI RIAD</td>
</tr>
<tr>
<td>Fault detection in LTI systems.</td>
<td>DEROUICHE SABAH</td>
</tr>
</tbody>
</table>
## ELECTRICAL ENGINEERING IN THE OIL INDUSTRY

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>Study and Simulation of PV array under matlab/simulink</td>
<td>HESSAS LAMIA</td>
</tr>
<tr>
<td>Improving the availability of a photovoltaic inverter</td>
<td>KHELIFI FATEH</td>
</tr>
<tr>
<td>Two strategic approaches of heat exchanger automatic control in a nuclear power</td>
<td>MENDIL CHAFIAA</td>
</tr>
<tr>
<td>Study and realization of a sun follower for a photovoltaic system</td>
<td>TADJER SID AHMED</td>
</tr>
<tr>
<td>Previsionel Analysis Of The Safety Operation For The Eha Actuator Of A A380 Aircraft Our Goal</td>
<td>DERMOUCHE REDA</td>
</tr>
<tr>
<td>Active Power based MRAC System for Stator Resistance and Rotor Speed Estimation in AC-Motor drives</td>
<td>AHRICHE AIMAD</td>
</tr>
<tr>
<td>Automation and supervision of the ZCINA LPG extraction section</td>
<td>KHATER FATMA</td>
</tr>
<tr>
<td>Simulation of the Voltage Breakdown of Power Transformer Insulating Oil</td>
<td>BOUCHETOB ELAID</td>
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</tbody>
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### ORAL SESSION

**EXPLOITATION AND TRANSPORT OF HYDROCARBONS**

**08 April 2019**  
CENTRAL LIBRARY, ROOM 3

**SESSION CHAIR**: Pr. M. GACEB, Pr. A. BENBRIK

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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>14h00-14h20</td>
<td>SAHNOUNE Khaled</td>
<td>Simulation de l’écoulement dans une turboforeuse</td>
</tr>
<tr>
<td>14h20-14h40</td>
<td>ARABI Abderaouf</td>
<td>Pressure drop fluctuation analysis for different sub-regime of intermittent flow</td>
</tr>
<tr>
<td>14h40-15h00</td>
<td>ATMANI Taous doria</td>
<td>Study of nanocrystalline TiN/CrN multilayer coatings obtained by the reactive magnetron sputtering technique</td>
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<tr>
<td>15h00-15h20</td>
<td>MEZIANE Akila</td>
<td>Wells effects on vortex breakdown under rigid and/or free surface conditions of isothermal flow</td>
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<tr>
<td>15h20-15h40</td>
<td>YOUCEFJ Sarra</td>
<td>Transport of viscous fluids in a centrifugal pump</td>
</tr>
<tr>
<td>15h40-16h00</td>
<td>CHEMAA Khaled</td>
<td>Tribological behaviors of Ti-W-N thin film for diesel engines applications</td>
</tr>
<tr>
<td>16h00-16h30</td>
<td><strong>Coffee Break + Poster Session</strong></td>
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</table>
### The 8th International Symposium On Hydrocarbons And Chemistry ’Ishc8’: Boumerdes, 8 - 10 APRIL 2019

**SESSION CHAIR:** Pr. M. GACEB, Pr. A. BENBRIK

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>16h30-16h50</td>
<td>ARBAOUI Mohamed</td>
<td>Degradation of mechanical contacts in a Saharan environment</td>
</tr>
<tr>
<td>16h50-17h10</td>
<td>KHOUMARI samira</td>
<td>Analyse de l’état de déformation et de contrainte d’un pipeline en interaction avec le sol</td>
</tr>
<tr>
<td>17h10-17h30</td>
<td>CHEBOUBA Billal Nazim</td>
<td>Multi-objective Pipeline Network Reliability Optimization by Particle Swarm Optimization</td>
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# ORAL SESSION

## EXPLOITATION AND TRANSPORT OF HYDROCARBONS

**09 April 2019**

**CENTRAL LIBRARY, ROOM 3**

**SESSION CHAIR** : Pr. A. MELLAK, Pr. A. HADJADJ

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<tr>
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<tbody>
<tr>
<td>8h30-8h50</td>
<td>NAIT AMAR Menad</td>
<td>Oil formation volume factor prediction using soft computing methodology</td>
</tr>
<tr>
<td>8h50-9h10</td>
<td>ZIOUANI Sara</td>
<td>Origin and Solutions of Instabilities in Gas Lift Activated Wells</td>
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<tr>
<td>9h10-9h30</td>
<td>DJEMAI Zahra</td>
<td>Petroleum storage tank analysis based on the presence of uncertain data</td>
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<tr>
<td>9h30-9h50</td>
<td>KARA Benyekhlef</td>
<td>Parameters affecting oil pipeline transient modeling and simulation using Matlab-Simhydraulics</td>
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<tr>
<td>9h50-10h10</td>
<td>FERROUDJI Hicham</td>
<td>CFD method for analysis of parameters affecting pressure drop gradient of drilling fluid in laminar regime with orbital motion of the drill pipe</td>
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<tr>
<td>10h30-11h00</td>
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<td><strong>Coffee Break + Poster Session</strong></td>
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08 April 2019
16h00 – 16h30

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<tr>
<th>Poster Session</th>
<th>Title</th>
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<tbody>
<tr>
<td>Exploitation and Transport of Hydrocarbons</td>
<td>Simulation de la dispersion de gaz dans l’atmosphère suite à la rupture des conduites de haute pression</td>
<td>AMARA Khadidja</td>
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<td></td>
<td>A Numerical Investigation of Natural Convection in an Inclined Square Cavity with Adiabatic Body</td>
<td>BOUANANI Mohammed</td>
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<td>Study of evaporation losses at liquefied natural gas storage tanks (Boil-Off) and eventual recovery of its losses</td>
<td>SID Asma</td>
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<td>Comparative investigation of pressurized corroded pipeline burst pressure taking into account the effect of defects shape and orientation</td>
<td>BENSEGHIER Mohamed el Amine</td>
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<td>Lattice Boltzmann Simulation of Natural Convection with Different Aspect Ratio in an Enclosure Heated From One Vertical Side and Cooled From the Ceiling</td>
<td>SOUALMI Rabiaa</td>
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<td>Numerical Simulation by ABAQUS, of the thermo-mechanical behaviour of X70 Steel welded tubes for hydrocarbon transport</td>
<td>FODILI Benslim</td>
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<td>CFD simulation study of the influence of the flow velocity on the propane combustion temperature in a milli-channel</td>
<td>CHAOUCHE Fatma Zohra</td>
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<td>Effect of Rayleigh number variation on double-diffusive convection under large temperature differences</td>
<td>LAOUTI Amina</td>
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<td>Effect of Operating Conditions on Asphaltene Onset Flocculation in Dead Oil</td>
<td>GHRABI Kheira</td>
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<td>Speaker</td>
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<td>9 April 2019</td>
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<td>10h30-11h00</td>
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<td>Boudour Rafik</td>
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<td>EXPLOITATION AND TRANSPORT OF HYDROCARBONS</td>
<td>Nacef Ali</td>
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<td>Celia Yacine</td>
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<td>Ghriga Mohammed Abdelfetah</td>
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<td>Merad boutheina</td>
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<td>Remli Samira</td>
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<td>Ben Younes Khaled</td>
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<td>Mesboua Noureddine</td>
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<td>Ouarouch Amel</td>
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<td>8th International Symposium on Hydrocarbons and Chemistry, Boumerdes, 8 - 10 APRIL 2019</td>
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### ORAL SESSION

#### ECONOMY AND MARKETING OF HYDROCARBONS

**09 APRIL 2019**  
**CENTRAL LIBRARY, ROOM 4**

**SESSION CHAIR : Pr TAHI RAZIKA**

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<tr>
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<tbody>
<tr>
<td>8h30-9h00</td>
<td>Kamel Malik Bensafta</td>
<td>Macro-Econometric simulation of Oil shocks to Algeria Economy</td>
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<tr>
<td>9h00-9h30</td>
<td>Pr TAHI Razika</td>
<td>Variables quantitatives et variables qualitatives pour la prise de décision dans le secteur de l’énergie</td>
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<tr>
<td>9h30-10h00</td>
<td>Mr Benalia Karim</td>
<td>Optimisation des caractéristiques opérationnelles des gazoducs. Cas : de l’entreprise TRC-SONATRACH</td>
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<tr>
<td>10h30-11h00</td>
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<td><strong>Coffee Break + Poster Session</strong></td>
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<tr>
<td>11h00-12h00</td>
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<td><strong>SUMPOSIUM CLOSING CEREMONY</strong></td>
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<tr>
<td>14h30</td>
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<td><strong>DEPARTURE TO BOUSSAADA CITY</strong></td>
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