



**ISCPE2022**  
**The First International Seminar**  
**on**  
**Chemical Process and Environment**  
**14-15 March 2023**  
**University of Biskra, Algeria**



# CERTIFICATE

## OF PARTICIPATION

ID : WT005

This is to certify that

**Abderezak Guemache**

Has participated and presented the paper entitled :

*Heterogeneous phase adsorption of carmine, phenolphthalein and eosin dyes on activated carbon and natural clay, experiments, characterization and physical interpretations*

**in The 1<sup>st</sup> INTERNATIONAL SEMINAR ON CHEMICAL  
PROCESS & ENVIRONMENT**

14-15 March, 2023 University of Biskra, Biskra, Algeria

Co-author(s): Ahmed Bouchelaghem, Mahmoud Drif, Fares Kakoul, Louanes Hamzioui

Presentation type: Oral



Mohamed Khider University,  
BP 145, Biskra, Algeria



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ISCPE2022 Chair

Pr. MERZOUGUI ABDELKRIM

