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EDUCATION

Master of Science in Civil Engineering (Highways Engineering) [Sep 2015 – Aug 2021]

Assiut University in Cooperation with the American University in Cairo, Egypt

Thesis Title: Evaluation of Using Low-Cost Nanomaterials on Performance of Asphalt Binder and Mixture.

Advisors: Prof. Dr. Safwan Khader, Professor of Construction Engineering, School of Sciences and Engineering, The American University in Cairo, Egypt.

Topics: Asphalt Performance, Modified Binder, Low-Cost Nanomaterials, Asphalt Mixtures, Pavement Distresses.

Bachelor of Science in Civil Engineering [Sep 2008 – June 2013]

Civil Engineering Dep, Faculty of Engineering, Assiut University, Assiut, Egypt

Final grade: Distinction with honor "86.37%", ranked 6th among 451 students.

Distinction in the graduation project (Special Structures - Reinforced Concrete).

ACADEMIC APPOINTMENTS

Full-Time lecturer Assistant [Oct 2021 – Present]

Civil Engineering Dep, Faculty of Engineering, Assiut University, Assiut, Egypt

Full- Time Teaching Assistant [Jan 2015 – Sep 2021]

Civil Engineering Dep, Faculty of Engineering, Assiut University, Assiut, Egypt

LIST OF PUBLICATIONS

Aboelmagd AY, Khedr S, Moussa GS, Abd Alla E-SM, Enieb M, (2022) "Waste Nanomaterial-Modified Asphalt for Economic and Sustainable Pavement Construction". Innovative Infrastructure Solutions. 7, 144 (2022). <https://doi.org/10.1007/s41062-021-00737-0>

Aboelmagd AY, Moussa GS, Enieb M, Khedr S, Abd Alla E-SM (2021) "Evaluation of Hot Mix Asphalt and Binder Performance Modified With High Content of Nano Silica Fume". JES Journal of Engineering Sciences 49 (No 4):378-399. doi:10.21608/jesaun.2021.70733.1046.

Aboelmagd AY, Enieb M, Moussa GS, Khedr S, Abd Alla E-SM (2021) "Predicted Pavement Performance of Asphalt Paving Modified with High Content of Nanosilica Fume Based on Egyptian Conditions" Proceeding of the 2nd International Conference on Civil Engineering: Recent Applications and Future Challenges (ICCE 2021) 30 October – 2 November, Hurghada, Egypt.

https://conferences.ekb.eg/article_1201.html

TRAINING

Essential Research Skills

[April 2016]

Knowledge Transfer Office, Assiut University, Assiut, Egypt

Superpave

[March 2017]

General Authority for Roads, Bridges and Land Transport, Ministry of Transport, Cairo, Egypt

Nanotechnology Applications in Building and Construction

[March 2019]

Housing and Building National Research Center, Cairo, Egypt

RESEARCH INTERESTS

Economic and Sustainable Pavement, Self-healing Pavement, Modified Asphalt, Porous Asphalt, RAP Asphalt, Pavement Distresses, Nano Technology, Low-cost Nanomaterials, Recycling.

RESEARCH EXPERIENCE

- Scanning the nanostructure particles and evaluating the homogeneity of modified binders using Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy (SEM) devices.
- Investigation of the changes in the chemical bands of the modified asphalts using Fourier Transform Infrared Spectroscopy (FTIR).
- Investigation of physical- rheological properties, temperature susceptibility, aging effect, and economic benefit of the modified binders.
- Utilizing prediction models to estimate the rutting parameter ($G^*/\sin\delta$) for the modified asphalts.
- Evaluation of the stiffness, moisture damage, rutting, and fatigue of the hot asphalt mixtures.
- Prediction of the field pavement performance of the asphalt mixtures using the Mechanistic-Empirical Pavement Design software (AASHTOWare Pavement ME Design).

TEACHING EXPERIENCE

Civil Engineering Dep, Faculty of Engineering, Assiut University, Asyut, Egypt

Courses: Highways and Airports Engineering, Transportation Planning and Traffic Engineering, Railway Engineering.

- Leading the discussion sections of the course throughout the semester
- Supervising final-year student projects
- Grading problem sets

ONLINE COURSES

Egyptian Knowledge Bank (EKP)

Academic writing and publishing standards, Presentation Skills, Research Paper Writing, Tips for a successful research career.

HONOURS AND AWARDS

International Publishing Award, Assiut University, Asyut, Egypt

(2022)

International publishing award for the manuscript of “Waste Nanomaterial-Modified Asphalt for Economic and Sustainable Pavement Construction”. Innovative Infrastructure Solutions. 7, 144 (2022).
<https://doi.org/10.1007/s41062-021-00737-0>

Assiut University Excellence Award and Honor’s Degree, Assiut University, Asyut, Egypt (2013)

A distinction award for excellent students for their academic performance through five years of undergraduate studies in Civil Engineering. Ranked 6th among 451 students.

DIGITAL SKILLS

AASHTOWare / Abaqus / Autodesk Civil 3D/ Microsoft Office / Outlook / Zoom / Autodesk AutoCAD / Structural Analysis and Design Packages ETABS SAP 2000

REFERENCES

Prof. Dr. Safwan Abbas Khader

Professor of Construction Engineering, School of Sciences and Engineering,
The American University in Cairo, New Cairo, Egypt.

Email: safkhedr@aucegypt.edu

Website: <https://www.aucegypt.edu/fac/safwankhedr>

Prof Dr. Sherif Massoud Ahmed El-Badawy

Professor of Highways Engineering, Public Work Engineering Dept., Faculty of Engineering, Mansoura University, Mansoura, Egypt.

Email: sbadawy@mans.edu.eg

Website: <https://scholar.google.com/citations?user=f3X2ifcAAAAJ&hl=ar&oi=sra>

Prof. Dr. Ghada Salah Moussa

Professor of Highways and Airports Engineering, Civil Engineering Department, Faculty of Engineering, Assiut University, Asyut, Egypt.

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