

Course Fee

Students	GRES Members	Non Members
Dhs 500	Dhs 2500	Dhs 3000

For registration send this completed form with appropriate fee to GRES

Tel.: (+9714) 29 600 44 Fax: (+9714) 29 600 45 Email: gres@eim.ae

Name : _____ : الاسم

Membership #: _____ : رقم العضوية Position : _____ : الوظيفة

Company: _____ : الشركة

Mob.: _____ : الهاتف: Tel.: _____ : الهاتف

Postal Code: _____ : الرمز البريدي P.O. Box: _____ : ص. ب.

Country: _____ : الدولة City: _____ : المدينة

E-mail: _____ @ _____ : البريد الإلكتروني

Method of Payment طريقة الدفع

Payment in Advance تسدد مقدماً

Bank transfer تحويل بنكي Cheque شيك Cash نقداً

جمعية هندسة الطرق الخليجية - البنك العربي - فرع دبي

Gulf Road Engineering Society, Arab Bank, Dubai Branch

Account No 3001 710 489 500 حساب رقم

IBAN: A E 540090003001710489500

جمعية هندسة الطرق الخليجية
Gulf Road Engineering Society



دورة تدريبية مكثفة

إعادة تدوير و استخدام الإسفلت

Two Days Training Program

Asphalt Pavement Recycling

4 & 5 Febuary 2012, Dubai

www.gres.ae

Introduction

Recycling or reuse of pavement material is a very simple but powerful concept. Recycling of existing pavement materials to produce new pavement materials results in considerable savings of material, money, and energy. At the same time, recycling of existing material also helps to solve disposal problems. Because of the reuse of existing material, pavement geometrics and thickness can also be maintained during construction. In some cases, traffic disruption is less than that for other rehabilitation techniques. The specific benefits of recycling can be summarized as follows:

1. Reduced costs of construction.
2. Conservation of aggregate and binders.
3. Preservation of the existing pavement geometrics.
4. Preservation of the environment.
5. Conservation of energy.
6. Less user delay.

Course Objectives:

This course was prepared to provide the following information on recycling of asphalt pavements: (a) Performance data; (b) Legislation/specification; (c) limits Selection of pavement for recycling; and (d) recycling strategies Economics of recycling Structural design of recycled pavements. The following recycling methods have been included: hot-mix asphalt recycling (both batch and drum plants), asphalt surface recycling, hot-in-place recycling, cold-mix asphalt recycling, and full depth reclamation.

Course Lecturer

Dr. Abo-Hashema has more than 22 years of experience in Pavement and Highway Engineering projects as a result of working in many highway projects in Egypt, USA, and UAE, especially in Feasibility, Planning, Design, Upgrading, and Maintenance studies. He has carried out several professional studies and consultancy works for several local and international agencies in Egypt, USA and UAE. He was working as head of highway section & pavement expert at WS Atkins & Partners Overseas, Al Ain-UAE (Oct. 2008 to June 2009). He was also working as Head of Study & Design team/Pavement Specialist through "Maintenance of Roads and Bridges in Al Ain Region" project, UAE, Phase II & III (Nov. 2003-Oct. 2008). Dr.

Abo-Hashema is working as a Professor of Highway Engineering and Head of Civil Eng. Department at Fayoum University since Oct. 2010. He was working as an Associate Professor of Highway Engineering at the Department of Civil and Environmental Engineering, UAE University (Sept. 2008-Jan. 2011). He worked as a research scholar with the Institute for Advanced Transportation Technology (NIATT), Department of Civil Engineering, University of Idaho, Idaho, USA (2000-2002). He also worked as lecturer/visiting Assistant Professor at the Civil Engineering Department at the University of Idaho, USA (2000-2001). He jointed many universities as visiting/adjunct professor in Egypt, USA, and UAE. Dr. Abo-Hashema obtained his PhD in "Pavement Management System" in 1999 and pursued two years (2000-2002) Post-Doctoral studies at the Department of Civil Engineering, University of Idaho, USA. Dr. Abo-Hashema has cooperated to introduce new and innovative pavement maintenance decision system for flexible pavements. Furthermore, development a new maintenance decision model for flexible pavements is one of his internationally achievements. He has also collaborated in designing a Mechanistic-Empirical design system for flexible pavements in USA & Egypt. He authored more than 50 Technical Investigation Reports in Pavement Maintenance Management Systems through many projects. Dr. Abo-Hashema has over 35 scientific publications in referred technical International/Regional journals and professional International conference proceedings. He supervised many MSc theses in Egypt and UAE. Dr. Abo-Hashema is currently member of professional organizations such as American Society of Civil Engineers (ASCE)-USA, Egyptian Syndicate of Engineers-Egypt, Arab Institute of Operation and Maintenance-KSA, and Gulf Road Engineering Society-UAE. He is certified as Consulting Engineer, Egyptian Syndicate of Engineers-Egypt (2008). Dr. Abo-Hashema taught many training/intensive courses in highway engineering for the industry.

Day 1: Timing: 09:00 – 14:30

Day 2: Timing: 09:00 – 14:30

1. Introduction to Asphalt Pavement Recycling
2. Performance Data of Recycled Mixtures
3. Selection of Pavement for Recycling and Recycling Strategies
4. Economics of Recycling
5. Hot Mix Asphalt Recycling: Batch Plant (Construction Methods and Equipment)
6. Hot Mix Asphalt Recycling: Drum Plant (Construction Methods and Equipment)
7. Hot Mix Asphalt Recycling (Materials and Mix Design)
8. Hot Mix Asphalt Recycling (Case History and QC/QA)

9. Hot In-Place Recycling (HIR) Construction Methods & Equipment
10. Hot In-Place Recycling (Materials and Mix Design)
11. Hot In-Place Recycling (HIR) Case Histories and QC/QA
12. Cold-Mix Asphalt Recycling (Central Plant) Construction Methods and Equipment
13. Cold Mix Asphalt Recycling (In-Place) Construction Methods and Equipment
14. Cold-Mix Asphalt Recycling: Materials and Mix Design
15. Cold-Mix Asphalt Recycling Case Histories and QC/QA
16. Full Depth Reclamation Construction Methods and Equipment
17. Full Depth Reclamation Case Histories and QC/QA
18. Structural Design of Recycled Pavements