



ASPHALT | INNOVATE | ENLIGHTEN | IMPLEMENT

AIEI NEWSLETTER | APRIL 2024

QUARTER ONE



The “Development and Deployment of Innovative Asphalt Pavement Technologies” program, commonly referred to as the AIEI Program, is a five-year cooperative agreement with FHWA (9/23–9/28). The purpose of this program is to address the ongoing challenges faced by the transportation community to adopt new technologies and reduce the time to implement them in business practices, specifications, and construction methods relating design, production, testing, control, construction, and investigation of asphalt pavements. This project also supports the overall goals of advancing 21st-century solutions and improving performance and safety to keep America moving forward.

The goals of the program under 23 U.S.C. 503(c)(3)(B) are:

- (i) the deployment of new, cost-effective designs, materials, recycled materials, and practices to extend pavement life and performance and to improve user satisfaction;

WHO IS ON THE AIEI TEAM?

The University of Nevada, Reno (UNR) has assembled a diverse project team of experienced research and professional engineers, marketing and communication professionals, and management experts with the expertise and knowledge required to successfully execute the project. The team comprises members from UNR, National Center for Asphalt Technology (NCAT), Asphalt Institute (AI), Virginia Transportation Research Council (VTRC), and Asphalt Testing Solutions & Engineering (ATS). The team members have world-class technical experience in all project innovation areas and extensive expertise in marketing, implementation, and project management.

Elie Hajj

UNR Professor | Program Manager & Principal Investigator

Roger Evans

UNR Engineering Research | Project Manager

Travis Walbeck

NCAT Training Manager / Engineer | Training & Marketing Manager

Mark Buncher

Asphalt Institute Director of Engineering | Work Plan Coordinator

Jhony Habbouche

VTRC Senior Research Scientist | Work Plan Coordinator

Adam Hand

UNR Professor | Work Plan Coordinator

Nam Tran

NCAT Associate Director | Work Plan Coordinator

Vinnie Gammons

NCAT Training Coordinator | Planning Coordinator

Mike Anderson

Asphalt Institute Director of Research and Laboratory Services | SME, Senior Engineer

Gaylon Baumgardner

Paragon Technical Services Senior Vice President | SME, Senior Engineer

Chait Bhat

Asphalt Institute Sustainability Engineer | SME

Ilker Boz

VTRC Research Scientist | SME

Stacey Diefenderfer

VTRC Associate Principal Research Scientist | SME

Harikrishnan Nair

VTRC Associate Director | SME

Randy West

NCAT Director | SME, Senior Engineer

Fan Yin

NCAT Assistant Director | SME

Molly Berry

ATS Marketing & Business Development | Marketing Generalist

Austin Phillips

Auburn University Samuel Ginn College of Engineering, Office of Communications and Marketing Director | Marketing and Communications Specialist

Kristy McLean

UNR Engineering Research | Technical Editor

Lindsay Rohlfson

L. DeSign | Graphic Designer

A.1.1 Technical Assistance to Stakeholders in Understanding the Characterization of Innovative Binders for Use in Flexible Pavements

Objective: z t o p p o n l t z y z p
l r p y t p l y o z o n p : w p z l t o
t y s p y o p l y a y r q s z z z p w
n s l l n p t p s p s t n l w z p t p q
t y y z l t p r n y o p t s y s p R s l w
Binder Specification

A" ' " %se of High Polymer Modified Asphalt (HiMA) Binders and Mixtures Gap Analysis

Objective: o p y t q l y o q z s l p t p
q z t x w p x p y l m p l n t z y w p z y w p l y p o
m O l y o w x l t z y q z p q S t

B.1.1 High RAP Mixtures Workshop Including Reclaimed Binder Availability (RBA)

Objective: O p p w z l l p q s p l
l n t n p p z z y s z l p o s l y o w p
M q z x o p t r y l y o n z y o n l
p p p n s l y r p z v s z q z l p o
s l s l p t x w p x p y p o z l p t y p p p o
t y t x w p x p y t y r p o n p o M z t x z p
n l n t y r p t l y n p q s r s x p

E3. EMOs and APRT Pavement Recycling Technologies (APRT) Implementation Workshop

Objective: O p p w z l l p q s p

UPCOMING PRESENTATIONS BY TEAM MEMBERS

Elie Hajj

2024 NRRA Conference
April 30 | Shoreview, MN

Implementation, FHWA efforts, Nevada experience

www.dot.state.mn.us/mnroad/nrra/pavement-workshop/archive/2024.html

Jhony Habbouche

Nevada Transportation Conference (NTC)
May 7 | Las Vegas, NV

Modified (HP) Asphalt Concrete Overlays

www.nevadatransportationconference.com

Derek Nener-Plante, Tim Aschenbrener, & Elie Hajj

Balanced Mix Design Workshop
May 22-23 | Tumwater, WA

*MONIPAP BZVSE ZTYRZLOTS
XWPXPYLTZY*

Mike Anderson

Asphalt Pavement & Materials TFG Meeting
June 13 | Raleigh, NC

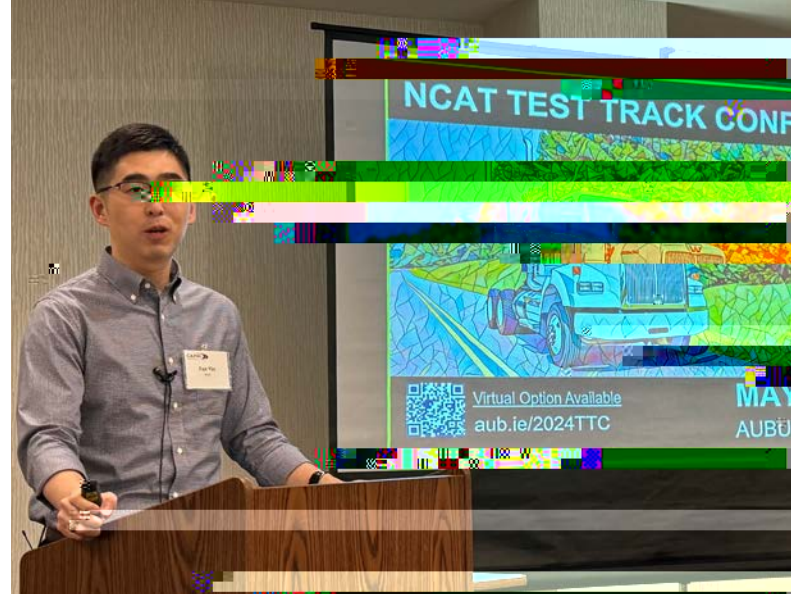
*slwMt yop rt yr l yo yp xpdl p px pl p
N lnt yE z pyt lwn sl yr p z sp R p l yo
Specifications*

Elie Hajj

2024 Nevada Asphalt Conference
October 30 | Las Vegas, NV

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www.nvltap.com/2024-nevada-asphalt-conference



FAN YIN, PH.D.

For other cooperative agreements materials, information or technical assistance, please visit:

<https://www.fhwa.dot.gov/pavement/asphalt/coopmaterials/>

<https://www.unr.edu/wrsc/tools/asphalt>

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