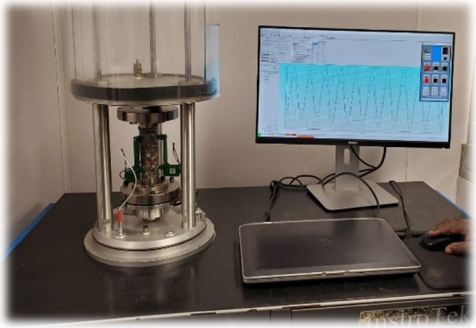
Federal Highway Administration and South Carolina Department of Transportation bring the Mobile Asphalt Technology Center (MATC) to South Carolina

INVITATION TO OPEN HOUSE

You are invited to an Open House on **Wednesday, January 29, 2020, from 9 a.m. to 12 p.m.**, featuring the latest in asphalt mixture testing, materials quality monitoring, and field test equipment and technologies.

Where? Construction/Maintenance assembly room**,** 203 Mt Bethel Garmany Rd, Newberry, SC

Overview of the MATC



Various Asphalt Mixture Performance and Index-based Tests

X-Ray Fluorescence

Pave-IR

MIT- Scan T3

What Is It About? The FHWA's Mobile Asphalt Technology Center (MATC) introduces agency and industry personnel to the state-of-the-art asphalt technology in materials selection, mixture design, field and laboratory testing, and pavement safety and quality. The MATC is visiting South Carolina to introduce new test methods related to the FHWA's Performance Engineered Pavements initiative and other innovative asphalt materials and construction tests relevant to field performance.

What Does It Involve? Demonstration and interactive opportunities of various advanced tests including:

Mixture Tests

- **Dynamic Modulus**
  - A test to determine the stiffness modulus of asphalt mixtures
- **Cyclic Fatigue**
  - A cyclic direct tension test to evaluate the fatigue cracking resistance of asphalt mixtures
- **Stress Sweep Rutting**
  - A test method to determine the permanent deformation characteristics of asphalt mixtures
- **Texas Overlay Test (OT)**
  - A test method to evaluate the cracking resistance of HMA overlays
- **Semi Circular Bending Test (I-FIT)**
  - A simple test to determine the premature cracking potential of asphalt mixtures
- **Ideal Cracking Test (ITC)**
  - A simple and practical test to the determine cracking potential of asphalt mixtures

Material Tests

- **Asphalt Binder Tester (ABT)**
  - An advanced laser technology combined with Artificial Neural Network (ANN) to analyze asphalt binders for Quality Control
- **Handheld X-Ray Fluorescence (XRF)**
  - An advanced spectroscopy technology to analyze construction material composition on asphalt binders, pavement markings, and more

Field Tests

- **Pave IR**
  - A high precision real time thermal profiler to detect thermal segregation during construction
- **Circular Texture Meter (CTM)**
  - A non-contact laser-based field device to non-destructively measure mean profile depth (MPD) of pavement to determine roadway surface macrotexture
- **MIT Scan T3**
  - A precise method to non-destructively determine pavement thicknesses

OPEN HOUSE AGENDA

9:30 - 10:00	Registration and Networking
10:00 - 12:00	Welcome and Presentations (15 minutes each)

- Welcome – FHWA Division Office, Jim Garling
- Agency Perspective on Mixture Performance and Asphalt Construction Issues (and other aspects), SCDOT
- Industry Perspective on Mixture Performance and Asphalt Construction Issues (and other aspects), SCAPA
- MATC Program and FHWA Goals, Leslie McCarthy, FHWA
- MATC Field Visit Details and Technologies, Ram Veeraragavan
- Importance of Safety: In the Lab, At the Plant, Behind the Paver, Brendan Morris
- Importance of Asphalt Specifications Review, Mike Huner
- I-26 Project Overview and Site Visit Logistics, Blythe–Eurovia

12:00 - 12:45	Lunch
12:45 - 1:00	Travel to asphalt plant location (Satterfield Asphalt Plant, Clinton, SC)
1:00 - 3:00	Demonstrations of the index-based & performance tests at the MATC
1:00 - 3:00	Demonstrations of material-related tests at the MATC
1:00 - 3:00	Demonstrations of field-related tests at the MATC

The MATC will be open until 4:30 p.m. If you cannot make it to the session in the morning, you can still check out the equipment and demonstrations until closing.

Why Attend? This is a unique opportunity to learn about the new index-based and performance tests that support Balanced Mix Design and Performance Related Specifications, respectively. Information on technologies related to both asphalt mixture design and construction will also be distributed. Additionally, the FHWA MATC also

showcases other new technologies related to QA/QC of materials. Many of these technologies are state-of-the-art and provide information about the asphalt materials related to durability, safety, and sustainability. Check out the MATC website for detailed information on test equipment: https://www.fhwa.dot.gov/pavement/asphalt/trailer/

What to Bring? All attendees are required to wear a safety vest and hard hat. A limited number will be available for those unable to bring their own.

What if I can't Attend the Morning Session Live?:

Attend online at https://connectdot.connectsolutions.com/apt and connect by calling:

Phone: (866) 434-5269, Access Code: 7326411

Who Should I Contact?

Leslie McCarthy, FHWA Federal Program Manager leslie.mccarthy@dot.gov Ph: (202) 981-2875	Brendan Morris, FHWA MATC Project Manager brendan.morris.ctr@dot.gov Ph: (301) 708-1618	Ashley Batson, SCAPA Executive Director abatson@scasphalt.org Ph: (919) 656-5930

Plant Site and Parking

Satterfield Asphalt Plant
Clinton, SC
in
Hanson Materials Quarry
Clinton, SC
Contact Person: Scot Bledsoe
Ph: (864) 942-2421

Open House Location:

https://www.google.com/maps/place/203+Mt+Bethel+Garmany+Rd,+Newberry,+SC+29108/@34.2905093,-81.5981791,553m/data=!3m2!1e3!4b1!4m5!3m4!1s0x8857d419127fd727:0xa073cdd95633cdf5!8m2!3d34.2905049!4d-81.5959904

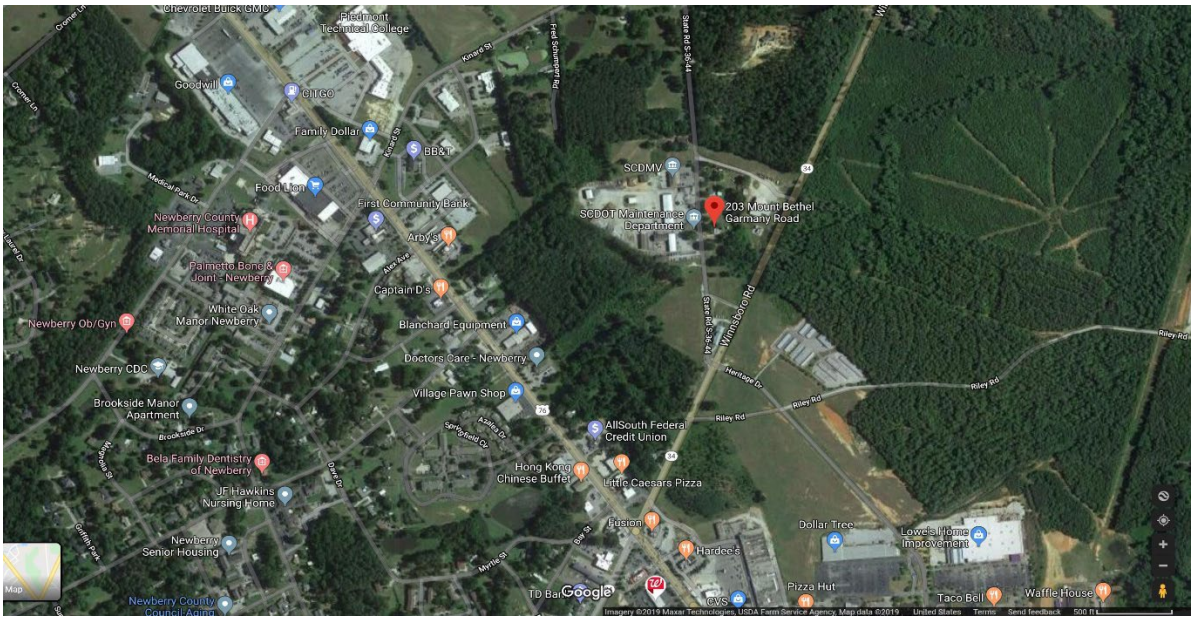


Photo courtesy of GoogleMaps

Asphalt Plant Location:

https://www.google.com/maps/place/Hanson+Clinton+Quarry/@34.5154742,-81.8124921,1448m/data=!3m1!1e3!4m5!3m4!1s0x8857c16e591bd8cb:0x3773671a17cccba2!8m2!3d34.514024!4d-81.808971

Photo courtesy of GoogleMaps