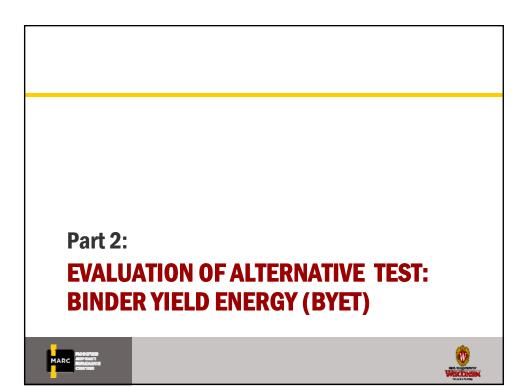


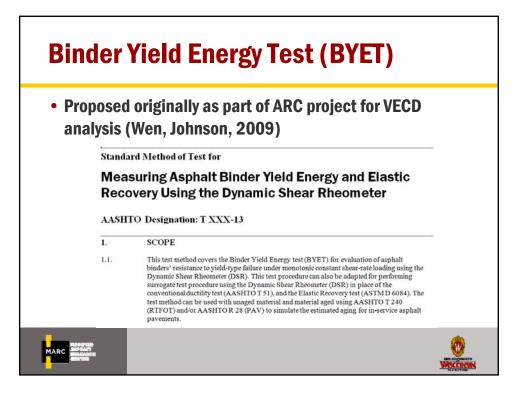
Conclusions of Part 1:

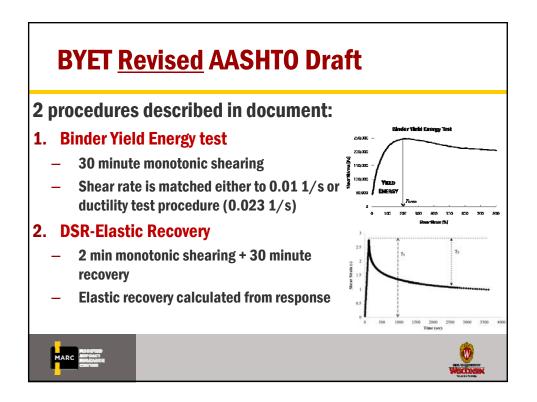
 According to principals of Extensional Rheology, testing asphalt at 4 to 15°C (as in the ductility)_does not cause "fracture".

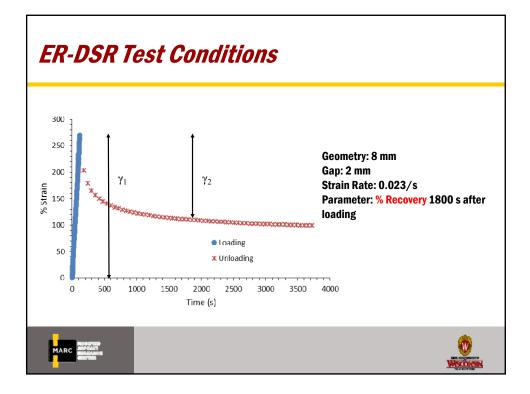
- Failure is through <u>necking</u>.

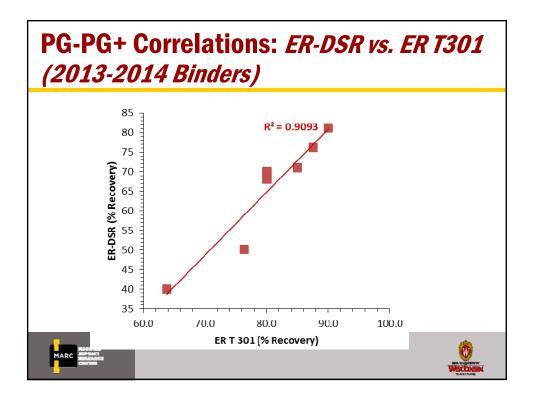
- Asphalt extensional testing (ductility and force ductility) does not satisfy requirements well known to make tests meaningful.
- Special conditions needed to perform meaningful extensional tests on melts and taking into account the necking (change in shape) during testing.

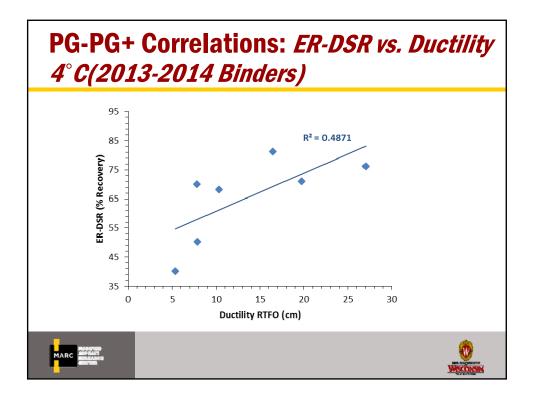


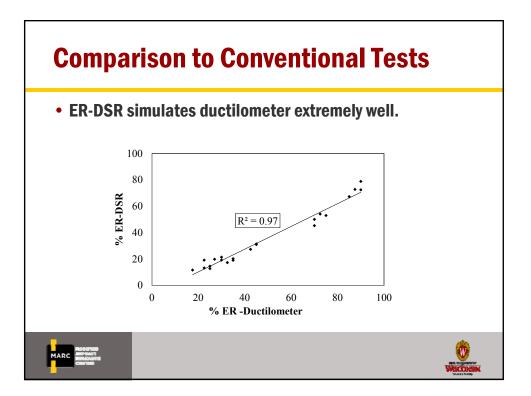


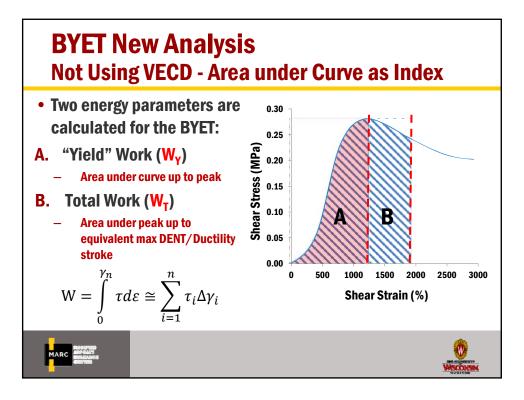


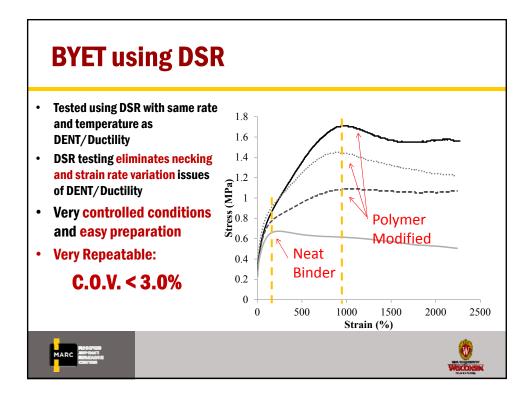


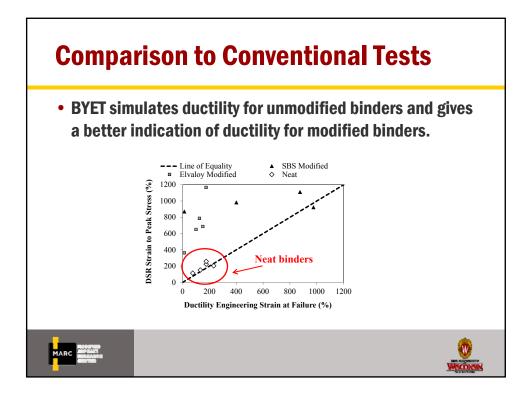


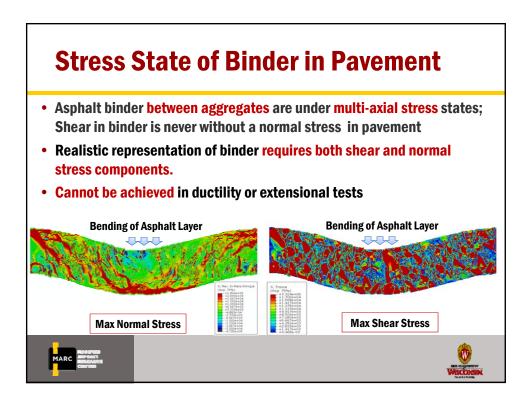


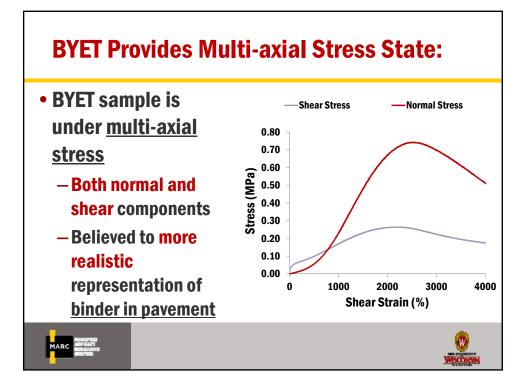


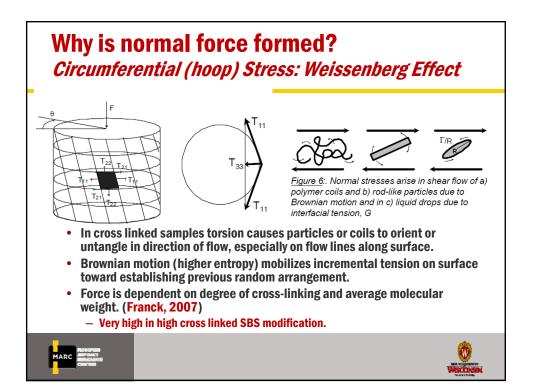


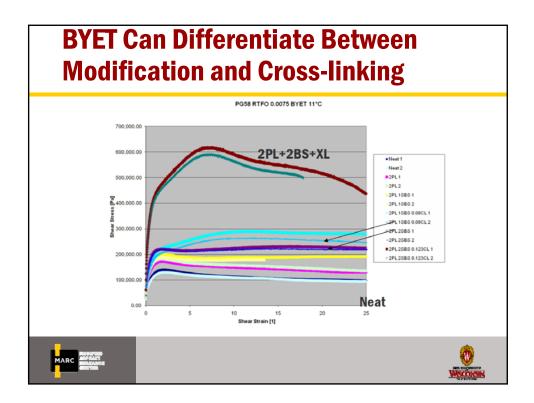


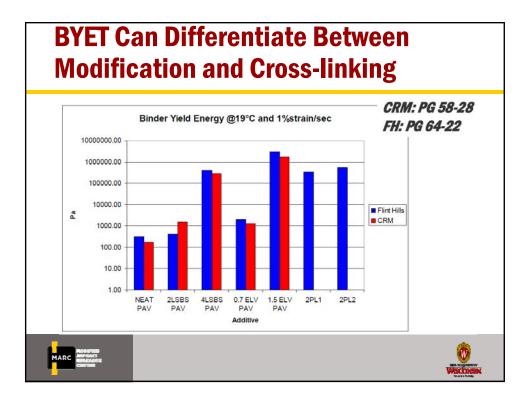


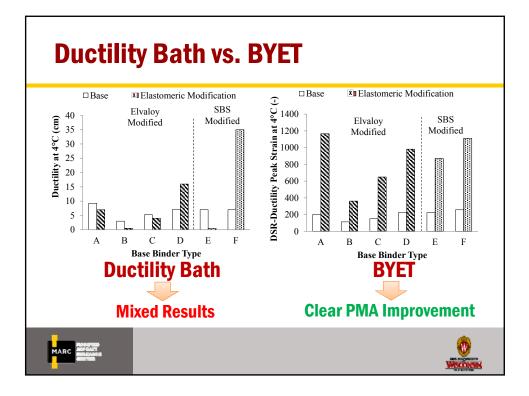


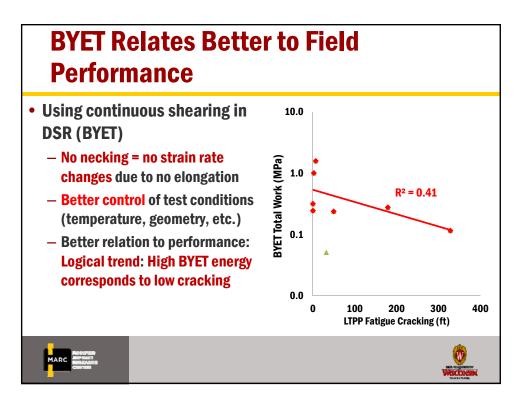














- There are serious problems with extensional tests(Ductility, Force Ductility, and DENT).
- Problems Solved using BYET to replace Ductility:
 - Constant strain rate (fair to all materials)
 - Much better repeatability

MARC

- Good discrimination between binders in terms of performance
- Simple and available device with better control of test conditions (temperature, rate, geometry)

