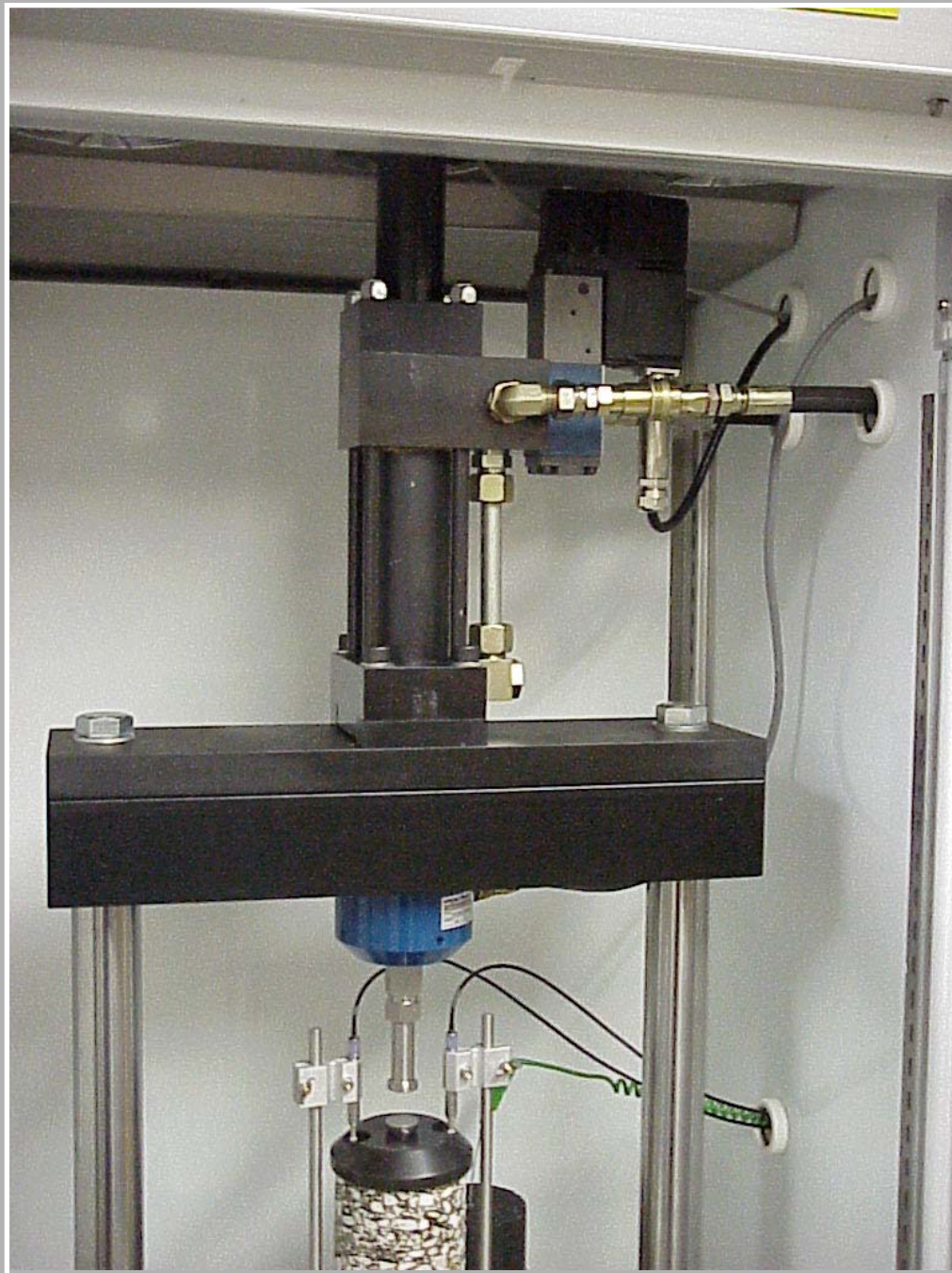


SPT issues

- Changing test protocol
- Testing Accuracy (research v practical v QC)
- Lag in measurement signal
- Lab samples (4"dia-6") v field cores (6"dia-2")
- Measure fatigue (70 microns) v rutting (.25 in.)











Iowa test differences

- Molded 4”dia-6” specimens (no coring)
- No end treatment for low friction
- Proposed changes:
 - Repeat high frequency (test for damage)
 - Different test for low/mod/high temp
(binder/mix unconfined/mix confined)

Iowa future direction

- Develop/Study test procedure (05-06)
- Build database of Iowa HMA mixtures (06+)
- Establish master curves for MEPDG (07)
- Study standard values for mix design (08 ?)
- Expand program to QC??? (10 ?)







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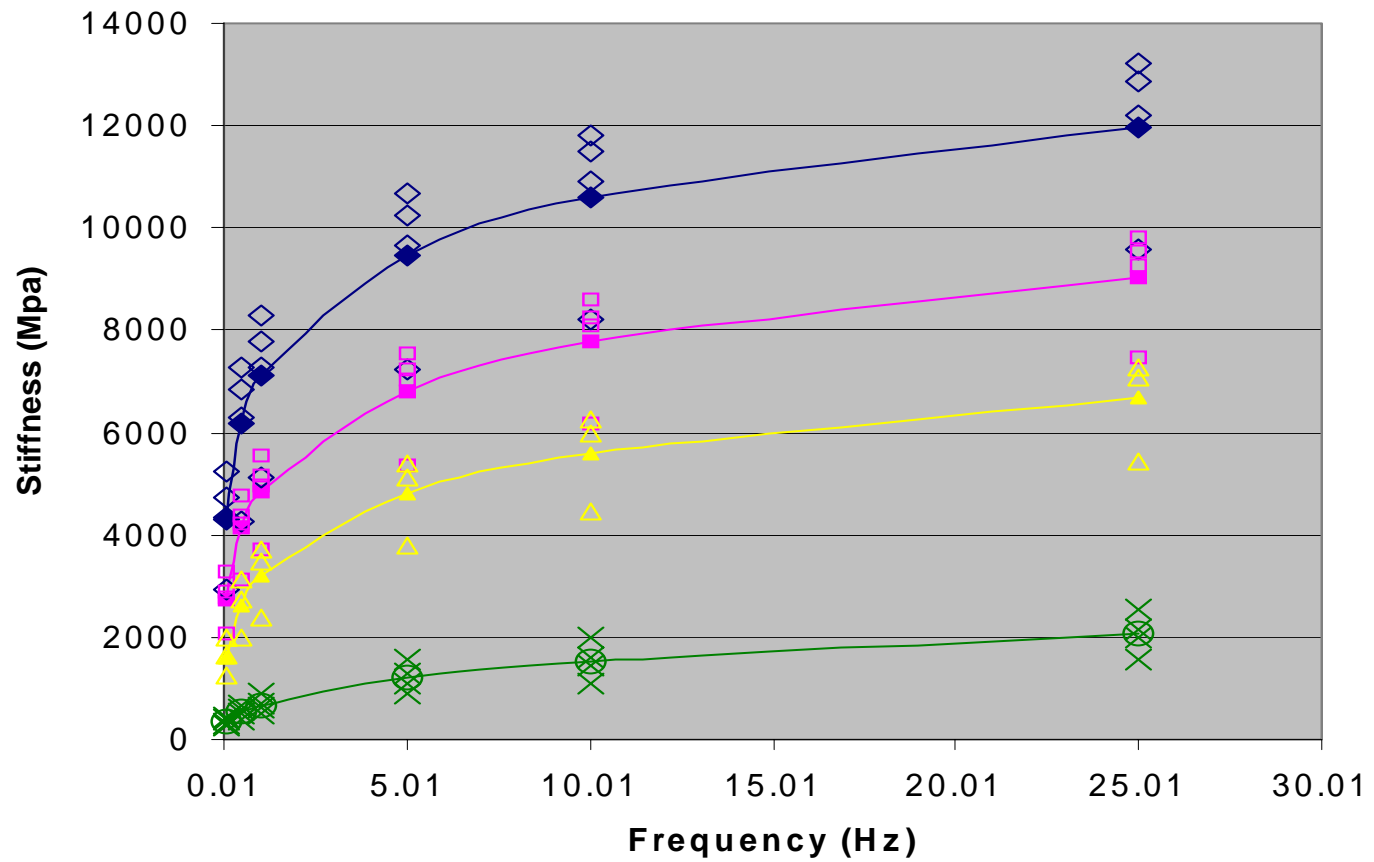
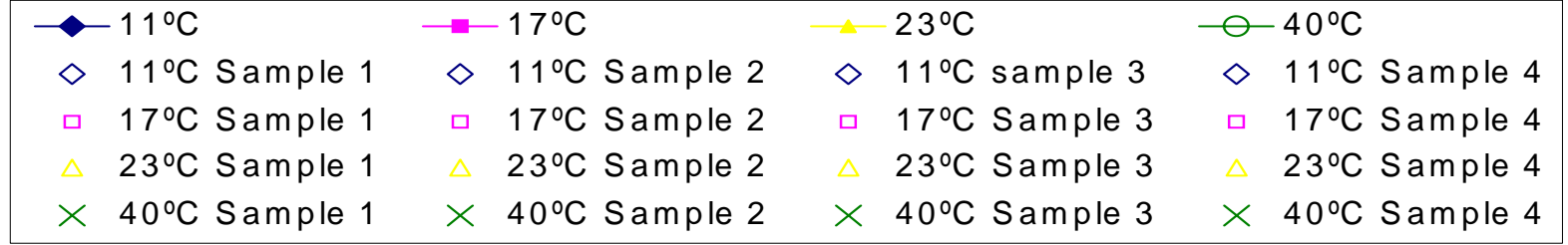
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MnDOT SPT experience

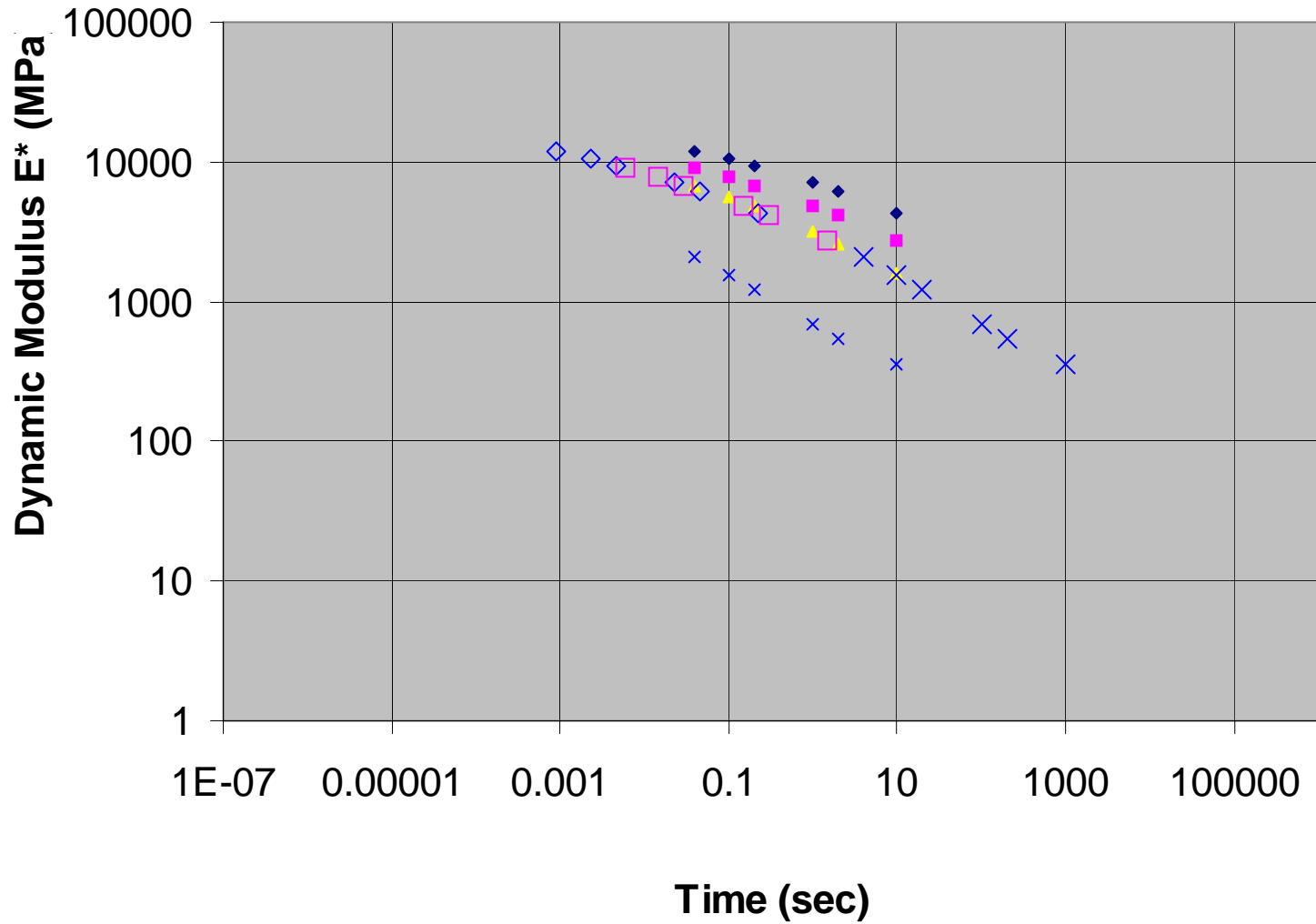
- Use magnetic mount LVDTs
- Problems with signal lag differences
- AASHTO TP 62 Start-up procedure (\$7-10K)

E* Data



US-218 Nashua E* Master Curve

- ◆ 11 C
- 17 C
- ▲ 23 C
- × 40 C
- ◇ 11 C reduced
- 17 C reduced
- × 40 C reduced



E* Variation with Traffic and Binder Grade
(Testing performed at PG high temp (58, 64, or 70) & 10 Hz Frequency)

