& 2) is not any bette over the 0.25um. For better than the 0.25um ments. If our true in 5.0um column would solve to know more about

to use for your analyses?

Have one of Restek's chromatography seminars presented inhouse. Call your local distributor for information.

WHICH COLUMN

The following chromatograms show a sample containing low boiling compounds analyzed on a 0.25, 1.0, and 5.um column with all other variables held constant. Notice that the 0.25um column does not resolve butanol from benzene (peaks 1 & 2). The 1.0um column provides about 80% resolution of this pair. Note that the retention times of the compounds eluting on the 0.25pm column more than double on the 1.0um column. Now, compare the 5.0um to the 0.25 and 1.0um columns. The resolution between butanol and benzene (peaks 1 & 2) is not any better than the 1.0umcolumn, and the retention times have increased six times over the 0.25um. For this particular sample, the 1.0um column is best. The resolution is better than the 0.25um column and the 5.0um column does not offer any additional improvements. If our true interest was in resolving the compounds prior to butanol (peak 1), then the 5.0um column would be the preferred film thickness.

Film Thickness Effects

A sample containing low boiling components shows the differences in resolution between 0.25, 1.0, and 5.0um columns. The 1.0um offers better resolution than the 0.25um and the 5.0um does not offer any further improvements for compounds eluting after C6.

