from a scientific standpoint what happens from a friction standpoint when the two materials come together.

A From a scientific standpoint, friction is a very, very small portion of the total surface at a given time. It is something not generally recognized.

But if you call total of a brake lining 100 percent, perhaps 100 percent of the total is actually in contact at a given time. So when the rubbing process is going on, very tiny spots called asperities are in contact and those asperities get very hot very quickly and when they do something, they happen from a wear standpoint or plastic flow and the spots move around so that over time -- if you take a period of, say, two seconds, all of the surface of the brake lining is likely to be in contact, but for any one moment, only a very tiny portion of the surface is in contact and they become very, very hot.

Q Exactly how hot? Can you estimate?

A I know it is over -- we have performed a number of studies, and other researchers have