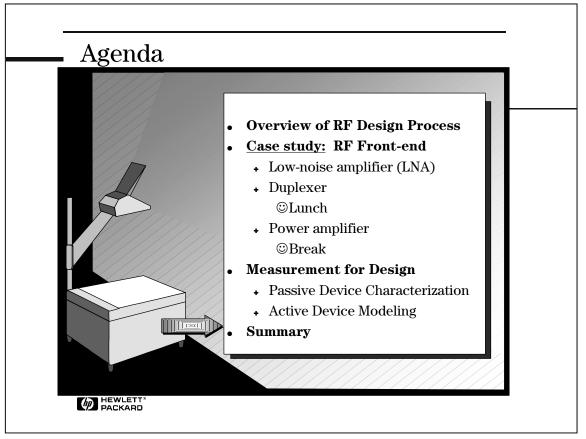
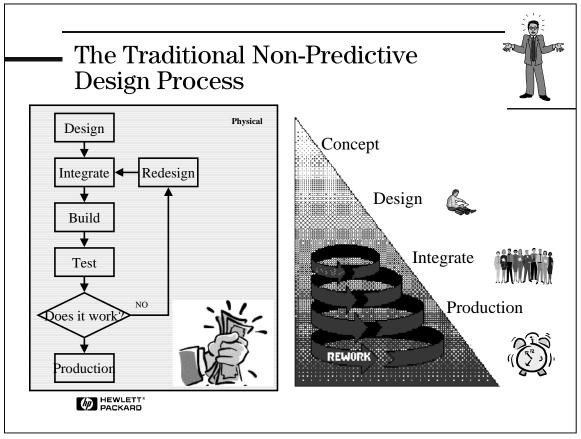


#### **Slide #163**





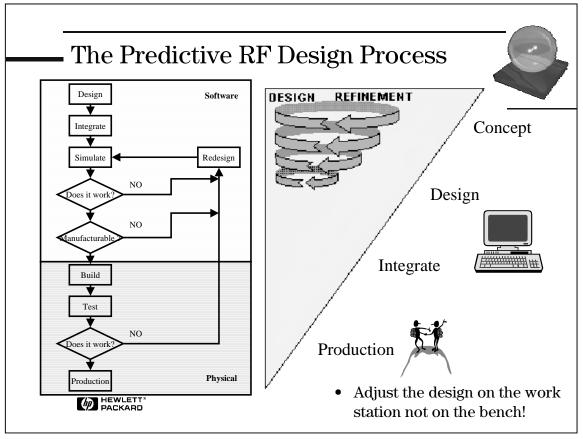
#### **Slide #164**



We started the day discussing the traditional design process. The problem is that this process is non-predictive. You hope that your design works, but in case it doesn't you run multiple physical prototype boards varying some of the components hoping that one works.



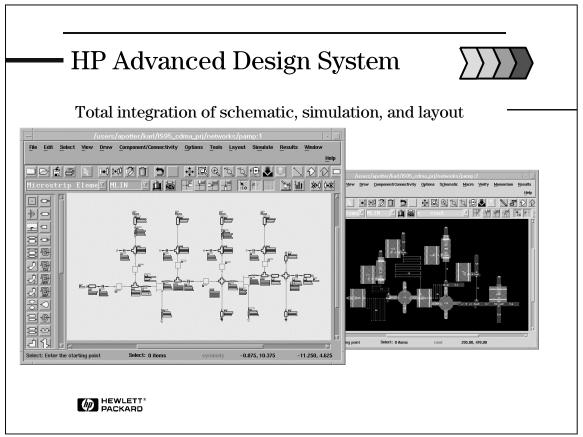
#### **Slide #165**



Next we introduced a new process that uses EDA software to refine the design early in the development process.



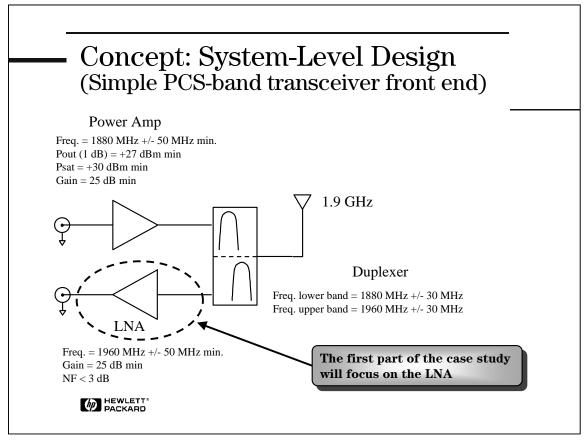
#### **Slide #166**



Modern Predictive RF Design is made possible with the HP Advanced Design System. System level, circuit level, simulation and layout are all provided in an integrated environment and much more.



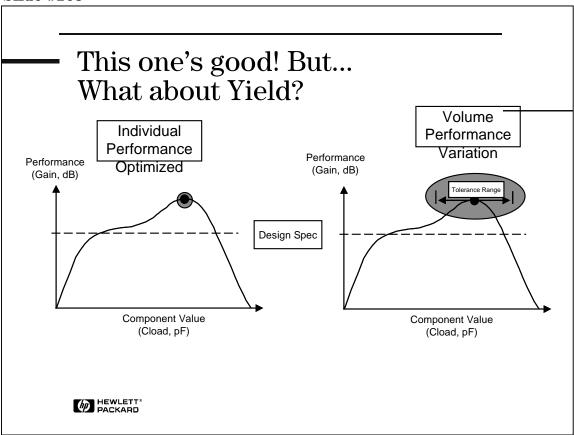
#### **Slide #167**



The first case study focused on an LNA design.



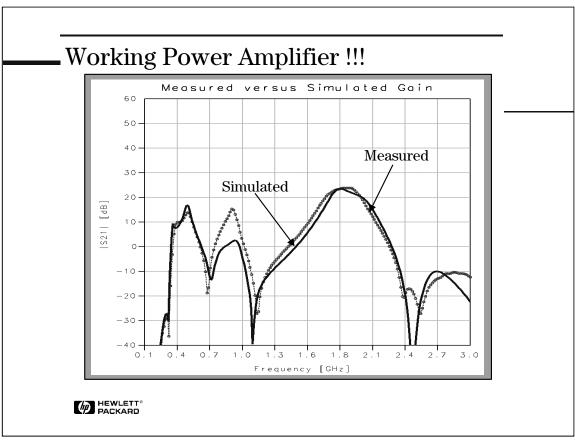
#### **Slide #168**



We then looked at the effects of component tolerances.



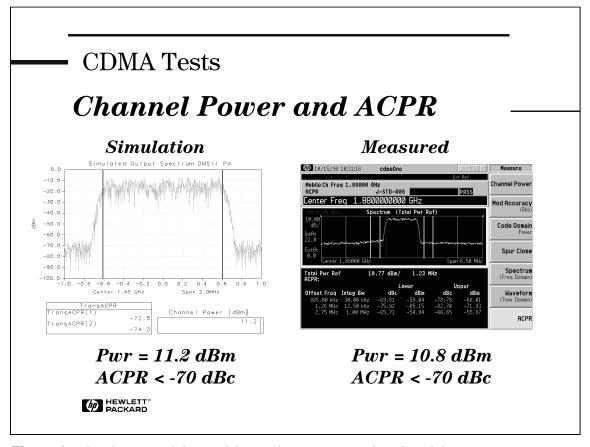
#### **Slide #169**



The second case study covered the design of a power amplifier.



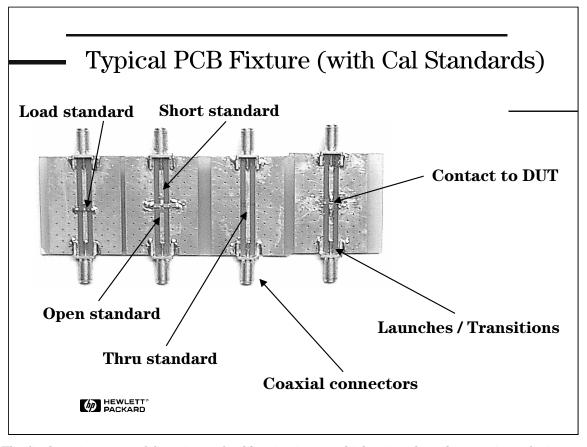
#### **Slide #170**



We simulated and measured the amplifier performance using digital modulation.



#### **Slide #171**

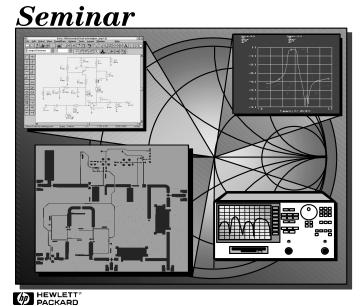


The final section covered fixturing and calibration issues which arise when characterizing devices.



#### **Slide #172**

# Thank You for Attending -HP RF Design and Measurement



Authors:
David Ballo
Joe Civello
Ed Henicle
Sara Meszaros
Andy Potter
Boyd Shaw
My Le Truong