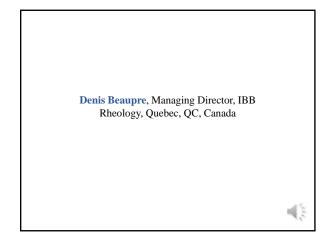
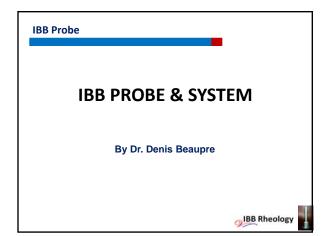
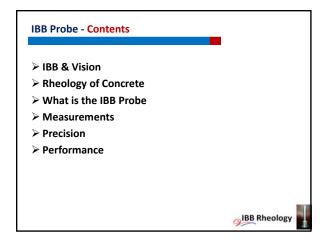


Quality Control and Robustness of SCC, Part 2

ACI Spring 2012 Convention March 18 – 21, Dallas, TX







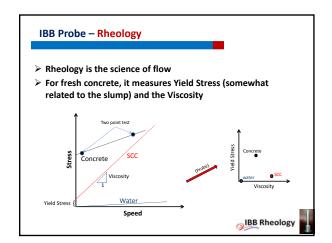
IBB Probe - Vision

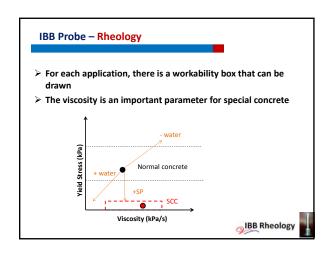
IBB Vision is:

"by 2020, all new ready-mix trucks will be have a IBB Rheological probe as a standard equipment"

IBB Probe

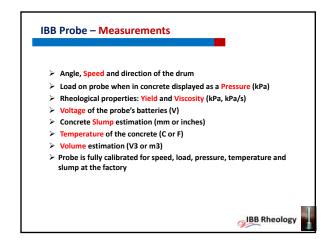
Display

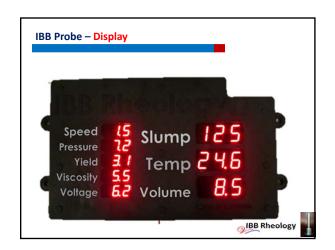


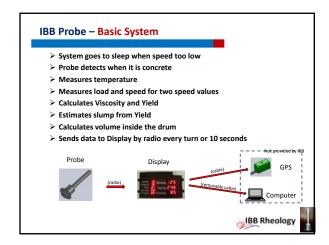


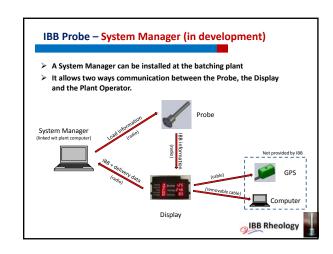
> The IBB Probe is a sensor that allow to assess some concrete properties (Slump, Temperature) inside the drum of a ready-mix truck, automatically, without sampling and on a continuous basis > Properly used, it also give rheological properties

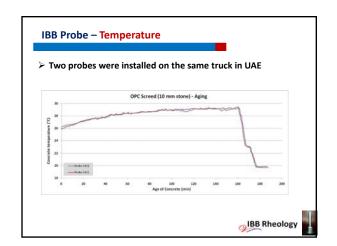


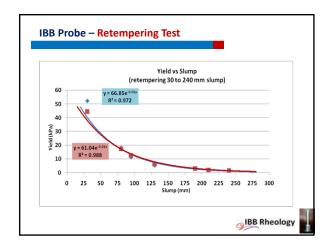


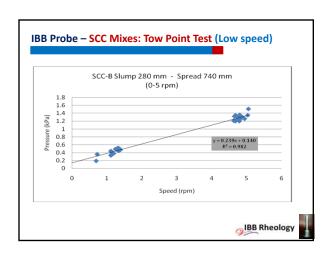


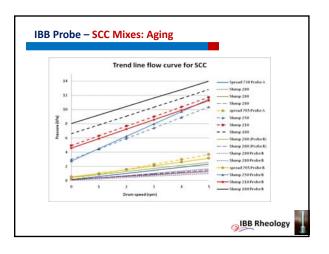


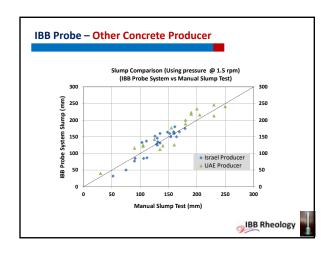


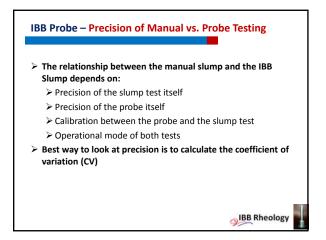


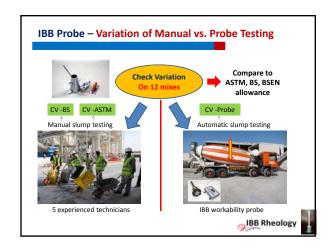


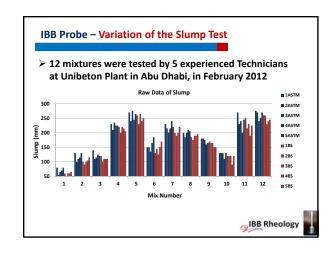


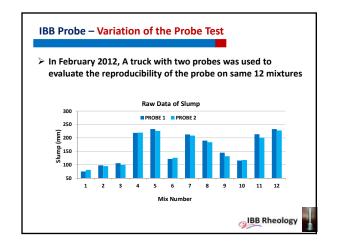


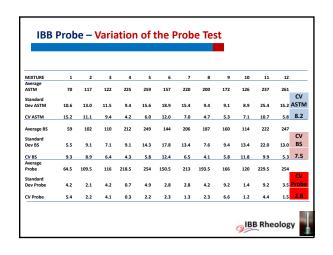


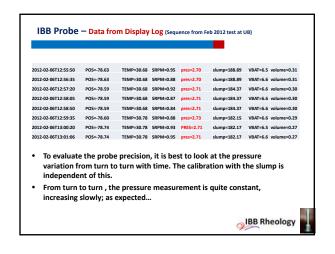


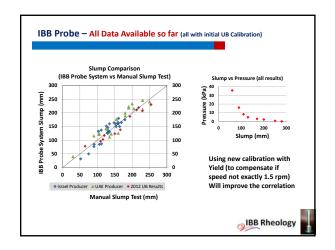












IBB Probe - Correlation Between Slump and Probe

- > Calibration is done at a given speed when using pressure
- Fif speed is not exactly what is has been calibrated with, it will cause some error
- > The use of the yield will eliminate the need to be exactly at the calibrated speed
- > The new software will use this concept



IBB Probe - Performance

- ➤ The Probe stay general clean inside the drum
- > Wear measurement indicate a potential life of 30-50 thousand cubic meter



IBB Probe - Conclusions

- > After 3 years of development and many versions of the IBB probe, the system is a good tool to evaluate automatically and continuously the fresh properties inside a ready-mix truck
- >The system is easy to install, gives direct measurements and does not depend on the amount of concrete inside the truck
- >A good thing to install on all new trucks

