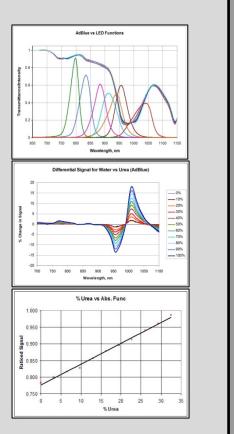
A New Low-Cost Measurement Platform for Urea Quality Monitoring Poster P-8

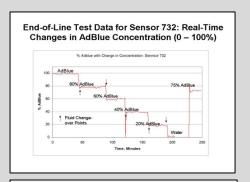
Bill Linden, President/COO and **John Coates,** Chief Technical Officer **Sentelligence, Inc., Noblesville, IN**

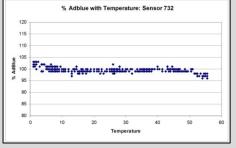
- Versatile sensor platform for in-line spectral measurement of fluids
 - Spectral methods correlate to concentration and material ID
 - Benefit reliable and low cost
 - Platform adapted as a real-time, in-line Urea Quality for SCR
- 4 QW
- 18 month development
- Input from major OE
- Validated in OE test lab



Specifications defined for Urea Quality based on input from endusers and vehicle/Engine OEs

- 1. Provides positive ID for AdBlue (32.5% urea) and water
- Provides a calibrated output as %Urea at normal temperatures
- 3. Differentiates AdBlue from contaminants and wrong fluids...Coolant and Fuel.
- 4. Detect the incidence of an empty fluid line
- 5. Provide a positive ID for AdBlue at temperatures up to 65°C
- Designed for operating pressures including hard frost









 Platform can be expanded to include other relevant emissions control and compliance measurements