IPRO 353: Sensor Systems in the Transportation Industry



Team Members

- Dr. Joseph Stetter-Professor of Chemistry
- Andrei Boitor-EE, Sophomore
- Kevin Lauzze-ChE, Junior
- Ryan Pendleton-MBB, Sophomore
- Beth Volberding-ChE, Junior

Challenges

- Too Large
- Too Expensive
- Not Stable
- Didn't Work
- Parts Hard to Find



Goals > Progress

- Create Business Plan-Finished with Room for Improvement
- Construct Working Prototype-Completed
- Begin Patent Application
 Process-Discolsure Submitted

Business Plan

- Background
- Product Summary
 - Detects Chlorine Gas
 - Mounts on Tank Car
 - Non-AccidentalRelease
 - 2 Chemical Sensors
 - Modular Battery Pack
 - Telemetry Option

- Industry and Market
 - Potential Outreach
 - Market Size
 - Present Value
- Customer
 - Initial-Sponsor
 - Secondary

Business Plan

- Competition
 - None Known
 - Patent/Ownership
 - Market Entrants (None Thus Far)
- Future Developments
 - Market Expansion
 - Different Applications

- Timing
 - Best Time for Entry
- Opportunity
 - Uncertainty
 - Marketing Strategy
- Recommendations for Future Teams

Business Plan Conclusions

- Viable Product
- Device NeedsWork
- Safety Device
- More Research Necessary



IPRO 353: Sensor Systems in the Transportation Industry Thank You for Attending

