



TOBI BALOGUN

The Recovery of Aircraft De-icing Fluid through Vacuum Distillation



What is De-icing Fluid?

- Safe take off
- 0.8mm = 25% less lift
- Air Canada uses 750,000 L/season
- Toxicity
- EPA < 100 mg/L
- Problem



Solution

- \$\$ - Cheap
- Reliable
- Easily Produced
- Fast Production Time



Vacuum Distillation

- Separation technique
- Continuous and Batch
- Driving Force --> Heat and Vacuum

- ✓ Cheap- simpler technologies
- ✓ Fast production time- reduced temp
- ✓ Reliable- EPA
- ✓ Easily produced- Savings; new avenues



Finishing remarks

- In the push toward green economy the importance of recovery (low energy intensive) is important to not expel the declining resources left
- Thank you...Audience; Professors; Technologist