

**PIF 05-09**  
August Safety Meeting  
9 August 2005

The meeting commenced at 1900 hours discussing new licenses, achievements, up and coming plans for the Aero Club.

The briefing was presented by Mr. Joe Calderone, NWS Forecaster and Aviation Focal Point Manager, on the Thunderstorms and severe weather flying; the presentation included the following information and is available for review in power point form on the Cessna computer.

1. Thunderstorm formation
  - a. Ingredients: unstable, moist air, and a lifting action
  - b. Stages: developing, mature, dissipating
2. Types of Thunderstorms
  - a. Single cell, multicell cluster, multicell line (squall), and supercell
3. Lightening:
  - a. Types: cloud-cloud, cloud-ground, cloud-air, cloud-aircraft
  - b. 50,000 degrees F
  - c. Distance 5 seconds=1 mile
  - d. Can cause: static for communications, electromagnetic fields (impair electrical equipment i.e NAV/COM) and Direct strike damage=physical
4. Hail-warm weather event
5. Wind
  - a. Downdrafts (microbursts) very damaging underneath T-storms, 50+ knots
  - b. Horizontal winds exceed 50 knots
6. **Don't let "get-there"-itis put you in a spot you can't get out of!!**

The presentation concluded with many questions and the meeting was adjourned at 2000.