

# Corvette Talk

- Topic – **What kind of replacement brakes do I need?**
  - Today's speaker: **David Foote (by popular demand!)**
- Future Topics
  - Seven things to not do to your Corvette
  - Are synthetic oil brands really different?
  - How to enter a locked Corvette with a dead battery
  - Is there a Carbon Fiber shortage?

# A Brief History

- Karl Benz patented the first brake pad in 1888
  - It was made out of leather
- Brake pads were more recently made out of Asbestos
  - Discontinued as Asbestos is carcinogenic
- The next generation Pads are called NAO (Non-Asbestos “Organic”)
- Common brake pad types today are;
  - Organic
  - Ceramic
  - Semi-Metallic
  - Metallic



# 3 Common Brake Pad Materials on our Corvettes....

**Organic:** Organic brake pads are made of a mixture of fibers and materials such as rubber, carbon compounds, glass or fiberglass, and Kevlar, are bound together with resin.

Organic pads are quiet

Wear out faster than Ceramic or Semi-metallic

Temperature Range 100F to 600F

**Ceramic:** Ceramic material is similar to pottery ceramics but denser

Pads have fine copper fibers embedded to dissipate heat

Longer life

Less dust

Temperature range 200F to 700F

**Semi-Metallic:** pads are between 30% and 70% metal, including copper, iron, steel, and other composite alloys. Combined with graphite lubricant

Higher dust

More noise

Can take repeated high heat cycles 400F to 1400F

# Conclusions – What Should I Buy??

- Few club members need Racing pads
  - More money spent on pads **does not** mean that your driving needs are better served
  - **You don't need semi-metallic or full metallic**
- **Recommend Ceramic Pads**
  - **Quiet, long life, less dust**
- Organic Pads are lower cost than Ceramic pads and will be fine for low yearly mileage “garage queen” Corvettes



# Questions

