

The PVCC Engineering Club (PEC)

Minutes: March 2, 2005

The meeting started at 12:30.

PVCC Engineering Club President Kenny Neal opened the meeting with announcements, and the club then proceeded to work on projects. Some of the main points he addressed were as follows:

- Mr. Hoover, the man who came in and gave the Club a presentation and demonstration on his miniature aircraft last semester, emailed Kenny concerning specific dimensions and weights of PEC's current miniature airplane project (please see bottom of this document for the full email with those specifics). As of now the motor extracted by PEC members last week from the cell phone is too small to be of use. This week members attempted to extract (a potentially larger) motor from a pager.
- Nathaniel has contacted Sperry marine about the future PEC field trip and will continue to use his connections within.
- PEC member Shelly is currently continuing work on the official PEC logo, this time incorporating photo shop into the design process (a little engineering lingo there). Again, artistic talent is a rarity in the club (save for Shelly at this point), so any help to her would be very much appreciated.
- PEC Advisor Mac Lafferty is currently in process of scheduling the club's field trip to VCU. It looks like a Friday, hopefully in the (very) near future. Keep checking the minutes for updates.

The next PEC meeting will be on Wednesday, March 16th at 12:30 in room 831.

Respectfully Submitted,

D.J. McGill – Secretary, PVCC Engineering Club

Attached Email (from Mr. Hoover to Kenny Neal)

Kenny,

Great to hear that you are building an RC plane!

To answer your questions I suggest that you try to keep the total weight under one ounce.

Then try to get a total wing area of about 60-70 square inches.

That is a wingspan of about 18 inches or so and a width of about 3.5 inches.

The motor and propeller combination that you will use needs to have about 1/2 the total thrust of the weight of the plane for it to fly. So if you end up with a weight of 24 grams (what I usually get) your motor they claim you will need to produce about 12 grams of thrust. I never measure that, but use trial and error. You may be able to make a thrust stand up to test it. I also try to build in some airfoil, but that is not too critical.

I refer you to the Ezone thread in RCGroups.com with a wealth of information on these planes and how to build them.

<http://www.rcgroups.com/forums/showthread.php?t=84771>

Check this thread and the Indoor and Micro forum in Ezone to see what has been built and actually has flown (you will be amazed).

I am anxious to hear more of your progress. I will be happy to help in any way I can. I can't wait to see your creation fly. I have built a couple new ones since I saw you. One is an old time closed fuselage RC called the Viking. It flies, but a lot faster than my stick and tissue creations.

Happy building and flying!

Al