

9/23/2009 concrete canoe meeting minutes  
4505SC  
6:40-7:45pm

- Competition is in Ames, IA this year. Still not sure about the date of the event.
- Hull design has been made for us via competition rules
- Still need to do mold design
  - Fiberglass material?
  - 1 ft Styrofoam/plywood sections?
  - Male vs female mold design
    - Male: build the mold so we build the canoe around the mold



- Female: build the outside so we build the canoe inside the mold



- Need to decide mold type by NEXT meeting
- Concrete mix design

- Needs to be decided by November
- What is concrete?
  - Cement
    - Portland cement
    - Hydraulic cement
  - Water
  - Aggregates
    - Minimum of 2 different types of recycled materials
    - Minimum of 50% of aggregates must be recycled
    - 15% of the total dry weight of the canoe must be the aggregates
    - Brainstorming recycled aggregates:
      - Bone
      - Old concrete/asphalt
      - Glass
      - Purchased recycled material
      - Crushed rubber (shredded tires)
      - plastic
  - Admixtures
    - Fibers:
      - Carbon fibers (black fibers)
      - Polypropylene (white fibers)
      - Feather
        - Processed
        - Natural
- Curing process
  - Building in east annex
  - Need to come up with a humidity chamber where we can get close to 100% humidity
  - 28 days for curing the canoe
- Rowing
  - Path for rowing
  - Rowing practice Sunday at noon at Lake McBride.
- Fundraising ideas
  - Foundation account
  - CEE board meeting 9<sup>th</sup> of October to ask for money
  - Selling chili before finals week
  - Letter writing campaign
  - Anymore ideas??
- Questions to ponder for next week
  - Curing chamber
  - Recycled aggregates
  - MOLD DESIGN (Will be choosing one next week)
  - Team name
  - Questions/concerns?