Engineer's Hooahah

- Erlenmeyer Flask
  - LB Paul Rabben: clean?
  - LB Available from Pyrex
    - Wide mouth, 29 mm opening: 250, 500, 1L, 2, 4, 6
    - Screw top or heavy rim
    - 1L - 292 mm high, 198 mm diameter
    - What volume do I need? Answer:
  - No aluminium! DANGER! - use steel (non-galvanized)
  - Use tin foil too

- No copper

- Purchase bowl? OR build?
  - LB Glass?
  - Cast Iron - Good, but will also
    - Contaminated levels are too low to make a difference
  - Silver - more expensive, but very good
  - Brass - wears well
Stainless - good Kugel (bed) head (tuner) (accessoires)
- cork for seal
- three-pk - ceramic bowl into brass/silver Ferule to stainless
- wood for bowl - use burrwood
- pipe makers supply - meerschaum vs. stainless (duddle)

Flasks
- 250 for single 0. 500
- 1,000 for multi.
- Fisher Scientific, VWR
- 600s/Kontes - custom piece
- Interasian - tubes - braze to brass (look up?)
- Tig/A/Friction fit.

Measuring dimensions - Mya Heath

Here
- Mouthpiece 0.24"
- Entry 0.29"

Stem
- Bottom - bow 0.15"
- Bottom - pad (min) 0.13"
- Top - interface 0.15"

Parte: (Screwed into Venice)
- N 1.25"

Cowl (collar) 0.56".

Bowl
- Bottom - inner 0.78"
- Bottom - outer 1.14"
- Top - inner 2.00"
- Top - angle 8°
- Depth 0.85"
- Hole diam 0.15"
Bowl Design

* Stainless or cast iron? Can either be worked easily?
* Use new unrilled edge in bowl?

Dimensions - "Pedrick"
- Neck Dia: 2.5"
- Base Dim: 1.5"
- Bowl Depth: 1.25"
- Total Height: 2.75"

1.25"

2.5"

- Perhaps put curve on inside free shape?

- Drill out - leave bottom rough - multiple drill 1/2" hole at bottom?

- Sealing - use Crisco & Paraffin
Tube Design

- Bolt on stainless petri dish for seal catch
- Thermocouple & airflow orifice
- 2 3/16 in. 1/8" hole for 1/4" 1/4" hole

Materials:
- Brass, stainless, welded

Tubing widths:
- \( R^2 = x/r^2 = 2r^2 \)
- \( R = \sqrt{2r} \)
- \( R = 0.353, r = 0.25 \)
- \( R = 0.5, r = 0.353 \)
 Cone

Pyreal Dimension
- Weight: 8.622 in
- Weight:
- Mould min: 4.1 in
- Mould max: 2.0 in
- Lip max: 2.35 in
- Lip min: 2.09 in
- Base max: 4.8 in

Weld

Ring: 30.0 cm
String

Sink and
Parts Required

V. Pipe: 28" nom. schedule 40 Stainless Pipe Z04

M. Master - Case

- 12" Cast Gray Iron 2 1/2" dia. - $20.00 x 29 - 30.79
- 24" Hose, 3/4" I.D. x 1/2" F. & M. - $25.15 x 12 - $301.80 - 19.32
- 7 80" Iron M/C for HTH, w. Fittings

Material Dimensions

Large Pipe - .316 55
  OD = 1.099"
  ID = .879"
  WT = .04"

Small Pipe - .304 55
  OD = .606"
  ID = .422"
  WT = .130"

Clear Pipe
  OD = .1875
  IP = .760
  WT = .060

Tap Repair
  $0.00 - 227-7187

Order of Tools
- Order Iron - make bowl
- Create test bed - aluminum plate
- Create adapter from large pipe to horse
- Create handle & adapter
- Test in water
- C8 pipe - thread for flow meter
- Test with clean
- Finish plug finish
- Attach pipe & seal
- Finish base