

Bonehenge Update by Keith – 26June2011

1) **Mandible tips:** Both mandible (lower jaw) tips require repairs. We are assuming the mandibles extend forward the same distance as the maxillae (upper jaws). With measurements in hand, Karen Hattman carved tip replacements from hard foam. John Russell then made a silicone mold from each piece of foam. After the silicone cured (~6 hours) John cut each mold to pry out the foam. Then casting resin mixed with bone dust was poured into each mold to fabricate final replacement jaw tips. We used stainless allthread pins set in Alumilite casting resin to attach the tips in place. Next step will be to carve out tooth sockets and apply finishing touches.



John creating a silicone mold for a replicate mandible tip.

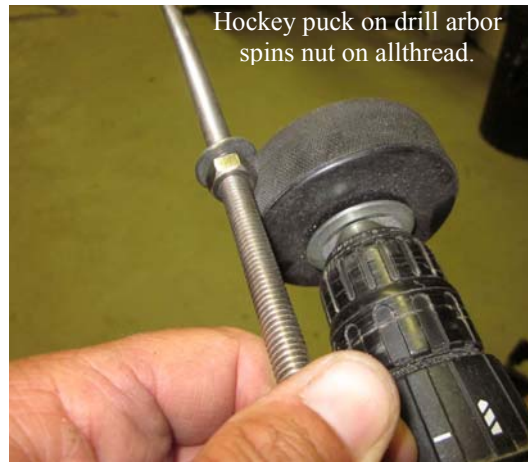


We used casting resin and stainless allthread to attach replicate jaw tip casts to the real bone.



Jaw tip replicates in place awaiting final touches (and teeth).

2) **Hockey puck and polycarbonate rod for tail section:** Try to find a hockey puck in Carteret County! Attaching a hockey puck to a drill arbor provided a very handy way to spin nuts along the allthread that supports the tail section. 2 nuts with washers separate each vertebrae in that section. Thanks to Lee Post in Homer, AK for that idea. In addition to the nuts keeping the vertebrae properly placed, a polycarbonate rod extends through all the vertebrae (and parallel to the allthread) to keep them from twisting on the rod.



Hockey puck on drill arbor spins nut on allthread.



Stainless allthread and polycarbonate rod support tail section.

3) **Cutting and bending pipe:** 4) **Boatbuilding merges with whale building:** Vic Fasolino uses pattern-making techniques used for building boats to create wooden a cradle for temporarily supporting the maxillae (upper jaws).



A large vice loaned by Chris Siegel has been very useful for cutting and bending pipe.

