Tuning Your Atlatl

Home 2003 Events Album Awards Revival

luning your Atlat

Dean Pritchard

Officers How-to ISAC

Annual Mtg

interesting conclusions about the spearthrower:

Having built many atlatts of various designs for several years, I have reached som

- dozen identical atlatls and every one of them will handle differently. Every atlatl seems to acquire a soul once it is finished. You can build a half
- Any rigid atlatl will work well and will accommodate almost any design. A tree branch or a hammer handle with a properly positioned spur, for example, will
- elasticity will have to be adjusted (tuned) to allow synchronization of the atlat An atlatl with any amount of elasticity will produce a whole new challenge. The with the dart.

same reason that a pole vaulter uses a flexible fiberglass pole instead of the old rig design. The athlete can gain extra lift by virtue of the release of stored (latent) energy within the pole itself. You are probably asking yourself "so why even bother with a flexible atlat!?" For the

darts can meet this requirement. be the same weight and spine. Fortunately, most modern aluminum and fiberglass travel with greater efficiency (in terms of distance, but not necessarily in accuracy). A synchronized flexible atlatl will basically do the same thing and allow the dart to The major drawback to this style of atlatl is the requirement that all of the darts mus

spear thrower. This process is time-consuming but it will allow you to maximize you throwing ability. Tuning will also help diminish the misfires often associated with positioned (see note). paddle type atlatl design and the assumption that the atlatl spur is properly for long dart flights. The procedure listed below is based on the "energy-reactive" modern thin walled aluminum darts and the heavy acceleration power curve require Atlatl tuning is a necessary process if you expect optimal performance from your

spined for stiffness. The dart, at this point, is also building up latent energy. Your atlatl, if properly designed, will flex and absorb most of this energy. Therefore, at or for a few milliseconds. This arch or bow can be extreme if the dart is not properly being accelerated by the spear thrower. This phenomenon will cause the dart to are that the pointed end of the dart will momentarily remain stationary as the other end leaves the atlatt, with a series of de-flexing and re-flexing. The law of physics implications First, let me set up this discussion by mentioning that your dart will flex wildly as it