



“If I would study any old, lost art, let us say, I must make myself the artisan of it...”

**Volume 38, Number 4**

Frank Lukes, Editor  
**Website:** [www.worldatlatl.org](http://www.worldatlatl.org)

**FALL 2025**

**The Atlatl? A Really Complex Weapon ! —Part 3**  
**What About the Dart?**  
**By Christian Lepers**

Since 2013, Christian Lepers has been a member of the TraceoLab team at the University of Liège, Belgium, where he specialises in flint knapping and the experimental use of prehistoric weapons. Christian’s contributions directly support the PhD and postdoctoral research conducted within the team.

Beyond the academia, Christian has been dedicated to spear throwing since 1994 and is an active member of CETREP, a group of experimental archaeologists within the Research Society of Wallonia. Christian also participates in archery and spear throwing as part of the European Championship of Prehistoric Weapons, an event where he served as secretary from 1999 to 2022.

Following the description of the atlatl’s throw during the propulsion phase, let’s examine the dart and its behavior. The darts used in the experiments are very similar to those excavated in North America and close to the standards of projectiles used for competitions in the US or Europe.



Fig. 1. The flexing of the dart during the propulsion phase. a, first convex flexing of the dart at the end of the linear phase. b, second concave flexing of the dart when the hook of the spear-thrower rises (beginning of the elliptical phase). c, Third convex bend caused by the descent of the hook at the end of the elliptical phase. d, dart too flexible at the moment of spear-thrower separation, its very high spine (14.5 cm) causes a “bend delay” (adapted from Lepers et al., 2024).

<b>CONTENTS:</b>	<b>PAGE</b>	<b>CONTENTS:</b>	<b>PAGE</b>
WAA Event Calendar 2025.....	5-6	Minutes from 2025 Annual meeting Chimney Point, Vt.....	10-11
2025 Election Results.....	6	Initial Plans and Information for 2026 WAA Annual Meeting....	12
Elkhorn Primitive Skills Gathering.....	6		
2025 ISAC Standings.....	7-9		
30th Northeastern Open Atlatl Championship.....	9-10		

### Analysis of the behavior of the dart

Observation of the video sequences shows that during the propulsion phase, the dart undergoes several flexions. The first occurs at the end of the linear propulsion phase just before the spear-thrower begins to rotate. At this point, the thrower's torso leans forward, the shoulders rotate, and the hand begins its upward forward movement. This convex bend<sup>1</sup> is visible in the central part of the dart and results from the upward component of the hand's movement because the dart is held by the hook and the fingers (Fig. 1a). With a very (too?) flexible dart that bends when placed on the spear-thrower, this first bend goes unnoticed.

When the atlatl begins to rotate, the dart is only in contact with the atlatl hook. During the first part of the elliptical phase, when the spear-thrower begins to rotate, the dart is only in contact with the spear-thrower hook. At this point, it undergoes a second flexion that differs from the previous one in its concave appearance (U-shaped) and its location near the heel of the dart (Fig. 1b).

Shortly before the spear-thrower hook reaches its maximum altitude, this second bend disappears and is replaced by a third convex bend (n-shaped), which also begins near the heel (Fig. 1c).

Concave or u-shaped flexion: flexion in which the centre of the dart is lower than its extremities. Convex or n-shaped flexion: flexion during which the centre of the dart is higher than its extremities.

When the dart forms an angle close to 90° with the spear-thrower, it separates from the hook and becomes autonomous. It then flies toward the target, continuing to show these alternating concave and convex flexures, which become increasingly attenuated until the projectile straightens out and flies in a direction parallel to its theoretical ballistic trajectory. While the flexing of the dart at the end of propulsion may vary (U-shaped or n-shaped depending on the flexibility of the dart), the flexing at the beginning of the elliptical phase is always concave (Fig. 2).



Fig. 2. U-shaped flexion undergone by the dart during the first part of the elliptical propulsion phase (competition at the Historial de Vendée 2012; a, Ph. Guillonnet; b, F. Brutus).

A careful analysis of the hook's movement helps to understand the origin of the bending forces experienced by the dart. At each moment of its movement, the elliptical motion of the hook can be broken down into two perpendicular vectors (Fig. 3). The horizontal vector of this movement (which we will simplify by equating it to the direction of flight of the dart) represents the component useful for the movement of the projectile, while the vertical vector represents the vertical component of the hook's movements. These vertical movements of the hook do not contribute to the movement of the dart because they have a different direction from the movement of the dart and therefore constitute a loss.

As shown in Fig. 3, during the first part of the rotation, the vertical displacement is very significant, as it results from the vertical movements of the hook (initial rotation) and the hand. This “parasitic” vertical displacement pulls the heel of the dart upwards and creates the U-shaped bend that is systematically observed in the first part of the elliptical phase.

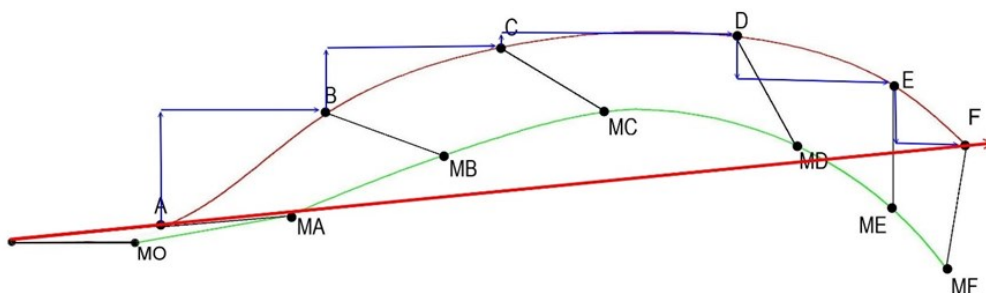


Fig. 3. Decomposition of the elliptical displacement of the hook into two vertical and horizontal components at various points along the trajectory of the hook and the heel of the dart. The hook's longer trajectory than that of the hand causes significant acceleration of the hook but also causes the dart to bend under the vertical component of the hook's elliptical movement. The red line indicates the desired “ideal” movement for the dart (adapted from Lepers et al., 2024).

In the second part of the elliptical trajectory, the upward thrust of the hook decreases. The arm (having passed the shooter's shoulder) begins to descend, the vertical component of the hook's movement decreases and its horizontal movement becomes dominant, the dart tends to straighten up. At the end of the elliptical phase, when the forearm extends, pulling the dart downward (Fig. 1c), the dart's hook begins a downward movement (in addition to its horizontal displacement) that creates the third bend (in n). As shown in the photos in Fig. 1 and Fig. 3 the vertical and horizontal vector decompositions of the elliptical phase, the flexions undergone by the dart during propulsion can be explained by the addition of the vertical movements of the arm, forearm, and spear-thrower, which give the hook (and the dart's heel) an upward direction during the first half of the elliptical phase and a downward direction during the second half.

These "parasitic" movements cannot be eliminated since they are inherent to the elliptical propulsion phase, which is essential for the smooth running of the overall propulsion system. We can console ourselves with the fact that no physical phenomenon offers perfect and total efficiency.

The intensity of the dart's flexing during the elliptical phase depends on a combination of several factors: the energy transmitted to the dart and the distance over which the hook pushes it, the length of the spear-thrower (which influences the height reached by the hook), the shooter's overall propulsion movement, and the characteristics of the dart.

These initial flexures of the dart do not constitute a storage of energy 'in the projectile'. They are the visible expression of the vertical movements (parasites) of the hook and show that the physical effort deployed by the shooter does not fully benefit the movement of the dart towards the target.

As with an arrow, these flexions initiated during propulsion will persist (attenuating more or less rapidly) during the flight of the projectile. They will reduce its speed because the deformations they impose on the projectile increase friction with the air. In practice, the movement and flexing of the dart take place within a cone whose base is located at the point where the spear separates from the spear-thrower. As it flies and its flexing decreases, the flight cone narrows until it corresponds to the theoretical parabolic trajectory of the projectile.

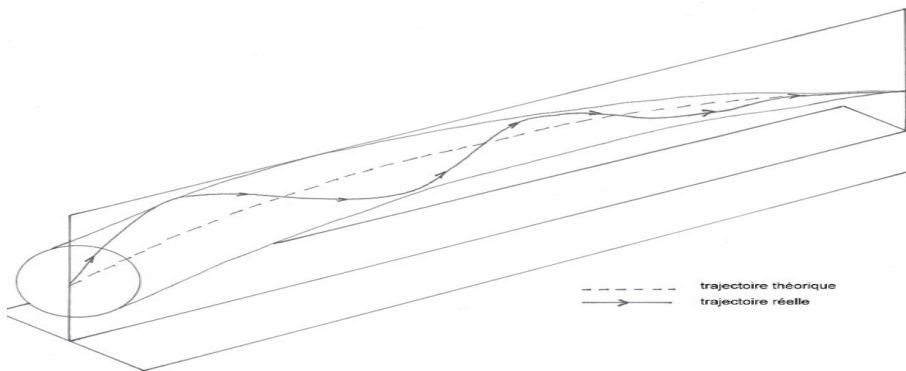


Fig. 4. Flight cone of the dart. The base of its surface will be influenced by the intensity of the spear's flexions (Lepers, 2010).

## 2. Influence of the dart spine

During the experiments that led to this article, the influence of the dart's spine was studied by testing the experimental reference dart and five other darts with similar morphologies (identical fletching (size, position on the shaft, and orientation) but with different spines. One dart had a spine similar to that of the reference dart, two darts were more flexible (higher spine), and two darts were more rigid (lower spine). All of these darts were thrown with the same spear-thrower by a single thrower using the same technique.

Regardless of their specific spine, this experiment confirms the four characteristics of the propulsion phase identified previously (see part 1 (The Atlatl spring 2025)). No significant differences can be noted in the altitude reached by the hook and the hand or in the propulsion times. As might be expected, the spine of the dart has little influence on the propulsion phase, but it influences its flight. Nevertheless, the most flexible darts show a slightly greater propulsion distance than the others. The increased flexion of these darts, and perhaps also a slightly later separation from the hook, may explain these findings. The most flexible dart shows a "flexion delay" when it separates from the hook (Fig. 1d). The second flexion (concave, U-shaped flexion) of the dart was so intense that the downward movement of the hook attenuates it without straightening it completely (without creating the third convex flexion (n-shaped flexion) observed for more rigid projectiles). This third flex appears once the dart has become autonomous, probably caused by the downward movement of the hook and the inherent elasticity of the projectile.

### 2.1. Important characteristics for dart

Like an archer's arrows, the darts used by a given user should ideally have similar characteristics. Your darts should therefore have the same weight, size, and fletching. However, the balance point and spine of the dart (less obvious characteristics) are also essential factors to take into account.

For a projectile to fly correctly, its balance point must be located in front of its geometric center. It can be moved by adjusting the mass of the frame or modifying the shaft. A balance point that is too far forward increases the inertia of the front of the projectile and its flexion in flight. If it is placed too far back, it makes the projectile's flight unstable. For an

arrow, the ideal balance point is located between 35 and 40% of its length from the tip of the projectile. These data can be transposed to darts. The balance of a projectile is defined by measuring its FOC (Front Of Center). The FOC is the percentage of the length of the projectile located between its balance point and its geometric center. A balance point located between 35% and 40% of the length of a projectile corresponds to an FOC of 15% and 10%, respectively. The FOC formula presented below is calculated from the tip of the projectile. Archers are more familiar with a formula that calculates the FOC from the notch of the projectile, but the result is the same.

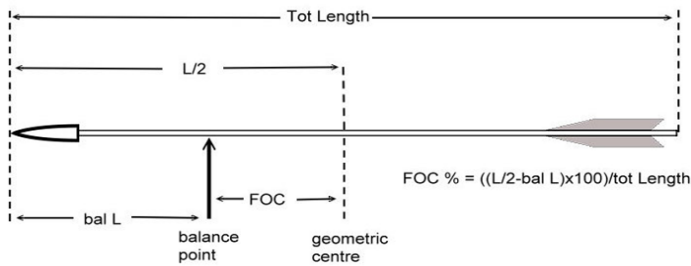


Fig. 5. Calculation of the FOC of a projectile (Lepers et al., 2024).

The spine characterizes the flexibility of the projectile shaft. It is an essential factor to consider for projectiles propelled by their heel (arrows and darts), which undergo varying degrees of flexion during propulsion. This concept, well known to archers, has been extensively studied for arrows. Its importance for darts is recognized by many authors and users, but has not yet been the subject of specific studies and experiments. The spine of a projectile depends on the material of its shaft, its shape, its length, and its diameter. A rigid projectile has a low spine. Conversely, greater flexibility results in a higher spine.

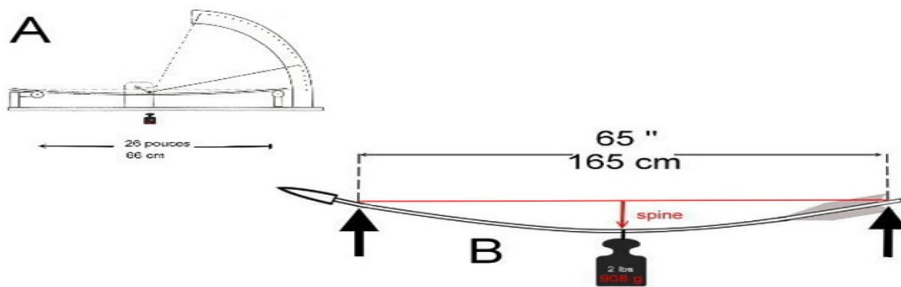


Fig. 6. Principle of spine measurement for a bow (A) and for a dart (B) (adapted from Lepers et al., 2024).

For a projectile consisting of a cylindrical shaft, flexibility is assumed to be identical along its entire length. If the shaft is conical, the spine is measured at the thinnest part (the most flexible). The spine corresponds to the measurement of the deflection of the shaft placed on two supports when weighted with a mass of 2 lb. The distance between the two supports is 26 " (66 cm) for an arrow and 65" (165.1 cm) for a dart (2.5 times the spacing used to measure the spine of an arrow).

### 3. Fly of the dart

After leaving the spear-thrower, a dart flies along a more or less pronounced parabolic trajectory, determined by its own characteristics (mass, FOC, spine, tail surface area, etc.) and the energy received during the propulsion phase. In reality, the dart's movement is not parallel to the theoretical ballistic trajectory; it oscillates, rotating on its axis within a conical volume (Fig. 4). These oscillations, which are well known to users, can have a significant effect on the accuracy of the projectile, but also on its speed, as they cause greater friction during its movement through the air. It is therefore important to adapt the spine of the projectiles to get the best possible performance. The flexing of the dart depends on its spine and the amount of energy it receives during the propulsion phase. It will therefore be necessary to go through phases of trial and error by observing (or filming) the flight of your darts. When one of your projectiles has a correct and effective flight, it can be used as a reference to adapt your other darts (note the characteristics of this type of projectile). The (somewhat depressing) conclusion of these observations is that darts must be adapted to each thrower and that if the shooter decides at some point to change their propulsion device or throwing technique, they will probably also have to change their darts (as archers do when they change their bow) ...

*In the next article, we will see how the shooter can influence the amount of energy transferred to the projectile.*

Disclaimer: for length and clarity, all bibliographical references present in the original paper have been voluntarily omitted. For more information, please contact the author (christian.lepers@yahoo.fr).

—Christian Lepers

## WAA EVENT CALENDAR

### DEADLINES FOR THE NEWSLETTER SUBMISSIONS:

Winter 2026 Edition of the Newsletter — Thursday January 1, 2026

**Please Note:** In these times of uncertainty (weather events, pandemic, etc.) events may be cancelled or rescheduled. If event changes occur, please keep Deb Andrews informed. Also check the website *Event List* for cancellations or changes. In addition, contact information for event leaders can be found to verify the event schedule.

### NORTH AMERICA

DATE/STATE	EVENT
2025 Oct 17 Fri   –   2025 Oct 18 Sat   <b>Missouri</b>	<b>Fall gathering</b> -WHEN:   2025 Oct 17 Fri   -   2025 Oct 18 Sat   from 12:00 PM-8:00 PM Standard -WHERE: 544 E.395 road, Fair play Missouri 65649   -WHO: Jaime brass   <a href="tel:641-373-4855">641-373-4855</a>   <a href="mailto:jaimе.brass4855@gmsil.com">jaimе.brass4855@gmsil.com</a>
2025 Oct 17 Fri   –   2025 Oct 19 Sun   <b>New York</b>	<b>Among the Hills Shoot</b> -WHEN:   2025 Oct 17 Fri   -   2025 Oct 19 Sun   -WHERE: 33 Fair Street, Nunda New York   -WHO: Douglas Bassett   <a href="tel:585-313-7111">585-313-7111</a>   <a href="mailto:dglsbassett@gmail.com">dglsbassett@gmail.com</a> ISAC & locals. Contact: text Douglas Bassett (585) 313-7111 to confirm details and your attendance.
2025 Oct 18 Sat   <b>Ohio</b>	<b>Almost Over Event</b> -WHEN:   2025 Oct 18 Sat   from 9:00 AM-12:00 PM EST -WHERE: 2041 Reynolds Ave., Albany Ohio 45710   -WHO: Debbie Andrews   <a href="tel:740-541-4036">740-541-4036</a>   <a href="mailto:deb_andrews@frontier.com">deb_andrews@frontier.com</a> ISAC and Ohio Locals. 10 am – noon or thereabouts. Contact Deb Andrews for more information, ( <a href="mailto:deb_andrews@frontier.com">deb_andrews@frontier.com</a> ) 740-541-4036.
2025 Oct 18 Sat   –   2025 Oct 19 Sun   <b>Wisconsin</b>	<b>WAS Fall Gathering</b> -WHEN:   2025 Oct 18 Sat   -   2025 Oct 19 Sun   from 10:00 AM-6:30 PM Central -WHERE: N 3019 Hwy 67 Dundee Sportsman’s Club, Dundee Wisconsin 53010   United States -WHO: Lenny Riemersma   <a href="tel:9209170335">9209170335</a>   <a href="mailto:wisatlatl@gmail.com">wisatlatl@gmail.com</a>
2025 Oct 18 Sat   <b>Montana</b>	<b>Crafted Wild hosts ISAC</b> -WHEN:   2025 Oct 18 Sat   from 12:30 PM-6:00 PM Mountain Time -WHERE: 1427 Burr Ridge Rd, Victor Montana 59875   -WHO: Danielle Gundlach-Cassley   <a href="tel:6503024305">6503024305</a>   <a href="mailto:hello@craftedwildmt.com">hello@craftedwildmt.com</a> Crafted Wild is hosting another ISAC. Junior, Youth and Adult entries are welcome as well as curious spectators. Parking is limited so please carpool if possible. Event is free but donations are appreciated. RSVP not required but appreciated. Winter tournaments will be bare bones. Spring, Summer and Fall tournaments may include additional skills and vendor opportunities. Please visit our website “ <a href="https://www.craftedwildmt.com/events">https://www.craftedwildmt.com/events</a> ” for more information.
2025 Oct 24 Fri   –   2025 Oct 25 Sat   <b>Ohio</b>	<b>Ohio ROAR Days</b> -WHEN:   2025 Oct 24 Fri   -   2025 Oct 25 Sat   -WHERE: 27331 SR 278, McArthur Ohio 45651   -WHO: Ray Strishek   <a href="tel:740-331-4351">740-331-4351</a>   <a href="mailto:ohioatlatl@hotmail.com">ohioatlatl@hotmail.com</a> Hope School House, Zaleski State Forest/Lake Hope State Park, located at 27331 SR 278, McArthur, OH 45651. The Ohio Atlatl Association will provide instruction, and host competitions, including the ISAC and Ohio Locals. Set-up will occur Friday, October 25 after noon, with ISAC and Ohio local competitions, and all-day Saturday, the 26th, from 9 am to 4 pm. Further information is available from Ray Strishek ( <a href="mailto:ohioatlatl@hotmail.com">ohioatlatl@hotmail.com</a> , 740-331-4351) or Steve Barnett ( <a href="mailto:barnz@juno.com">barnz@juno.com</a> , 740-698-6553).
2025 Oct 25 Sat   –   2025 Oct 26 Sun   <b>Wisconsin</b>	<b>Helvetia Haven</b> -WHEN:   2025 Oct 25 Sat   -   2025 Oct 26 Sun   -WHERE: N9430 cty rd e, Ogdensburg Wisconsin 54962   -WHO: Ben Struzynski   <a href="tel:7154451650">7154451650</a>   <a href="mailto:atlatlchamp@gmail.com">atlatlchamp@gmail.com</a> Please contact Ben Struzynski if you plan to attend 715 445 1650
2025 Oct 31 Fri   –   2025 Nov 01 Sat   <b>New York</b>	<b>Indoor Shoot</b> -WHEN:   2025 Oct 31 Fri   -   2025 Nov 01 Sat   from – -WHERE: 455 S. Cascade Dr., Springville New York   -WHO: Douglas Bassett   <a href="tel:585-313-7111">585-313-7111</a>   <a href="mailto:dglsbassett@gmail.com">dglsbassett@gmail.com</a> ISAC and locals. Range Fee \$10. Fri: 2 pm to 3 pm or so; Sat: 10 am to 11 am or so. 455 S. Cascade Dr south of the Springville Exit off the 219. Contact: <b>RSVP</b> to Douglas Bassett (585) 313-7111; <a href="mailto:dglsbassett@gmail.com">dglsbassett@gmail.com</a>
2025 Nov 01 Sat   –   2025 Nov 02 Sun   <b>California</b>	<b>NAMAKAN ranch</b> -WHEN:   2025 Nov 01 Sat   -   2025 Nov 02 Sun   from 9:00 AM-12:00 PM Pacific -WHERE: 27352 fahey rd, Gustine California 95322   -WHO: David Eagleton   <a href="tel:2097107533">2097107533</a>   <a href="mailto:tonofeagles@yahoo.com">tonofeagles@yahoo.com</a> Isac event, 3-d course, clout, running rabbits we will provide snacks and lunch.
2025 Nov 01 Sat   –   2025 Nov 02 Sun   <b>Wisconsin</b>	<b>Helvetia Haven</b> -WHEN:   2025 Nov 01 Sat   -   2025 Nov 02 Sun   -WHERE: N9430 cty rd e, Ogdensburg Wisconsin 54962   -WHO: Ben Struzynski   <a href="tel:7154451650">7154451650</a>   <a href="mailto:atlatlchamp@gmail.com">atlatlchamp@gmail.com</a> Please contact Ben Struzynski if you plan to attend 715 445 1650
2025 Nov 15 Sat   <b>Montana 2</b>	<b>Crafted Wild hosts ISAC</b> -WHEN:   2025 Nov 15 Sat   from 12:30 PM-6:00 PM Mountain Time -WHERE: 1427 Burr Ridge Rd, Victor Montana 59875   -WHO: Danielle Gundlach-Cassley   <a href="tel:6503024305">6503024305</a>   <a href="mailto:hello@craftedwildmt.com">hello@craftedwildmt.com</a> Crafted Wild is hosting another ISAC. Junior, Youth and Adult entries are welcome as well as curious spectators. Parking is limited so please carpool if possible. Event is free but donations are appreciated. RSVP not required but appreciated. Winter tournaments will be bare bones. Spring, Summer and Fall tournaments may include additional skills and vendor opportunities. Please visit our website “ <a href="https://www.craftedwildmt.com/events">https://www.craftedwildmt.com/events</a> ” for more information.

DATE/STATE	EVENT
2025 Nov 21 Fri   –  2025 Nov 22 Sat  <b>New York</b>	<b>Indoor Shoot</b> -WHEN:  2025 Nov 21 Fri - 2025 Nov 22 Sat  from – -WHERE: 455 S. Cascade Dr., Springville New York   -WHO: Douglas Bassett   <a href="tel:585-313-7111">585-313-7111</a>   <a href="mailto:dglsbassett@gmail.com">dglsbassett@gmail.com</a> ISAC and locals. Range Fee \$10. Fri: 2 pm to 3 pm or so; Sat: 10 am to 11 am or so. 455 S. Cascade Dr south of the Springville Exit off the 219. Contact: <b>RSVP</b> to Douglas Bassett (585) 313-7111; <a href="mailto:dglsbassett@gmail.com">dglsbassett@gmail.com</a>

## EUROPE

DATE/STATE	EVENT
2025 Oct 18 Sat –  2025 Oct 19 Sun  <b>Landes – Aquitaine France</b>	<b>Brassempouy ISAC</b> -WHEN:  2025 Oct 18 Sat - 2025 Oct 19 Sun  from 5:00 PM-5:45 PM -WHERE: Rue du musée, Brassempouy Landes – Aquitaine 40330   France -WHO: Christophe CHARTIER   <a href="tel:0695348958">0695348958</a>   <a href="mailto:reservations@prehistoire-brassempouy.fr">reservations@prehistoire-brassempouy.fr</a>

---

## 2025 ELECTION RESULTS

By Lori Majorsky

The following candidates were elected to the World Atlatl Association Board of Directors. Their terms will start on January 1, 2026 and will run to December 31, 2028:

- Montana Barnes
- Dawn Kneib
- John Whittaker
- Jeremy Wilkens

Congratulations to these elected board members. Thanks to all who ran for WAA offices.

---

## Elkhorn Primitive Skills Gathering



Brendan MacCorgarry takes Utah State Atlatl Championship

BOULDER, UT – August 2, 2025 – The 2025 Utah State Atlatl Championship, held at the beginning of August during the Elkhorn Primitive Skills Gathering, was a powerful reminder of how ancient skills can thrive in a modern world. The competition showcased the atlatl, a spear-throwing tool that predates the bow and arrow, and culminated in a victory for Brendan MacCorgarry of Maricopa, CA .

For Brendan, these skills are more than just hobbies—they are a link to what it means to be human. "Things like this are important because they help us remember how to be human," he stated. His other passions, including freediving, spearfishing, farming, and making food, all reflect a deep-seated connection to the land and self-sufficiency.

About Elkhorn Primitive Skills Gathering:

Elkhorn is an annual week-long, education-based earth skills gathering held at Sugarloaf Valley Farms in Boulder, UT. Its mission is to connect people to the land and community by fostering sustainable living practices and preserving ancestral knowledge through hands-on classes and shared experiences. For more information, please visit [www.elkhorngathering.com](http://www.elkhorngathering.com).



Contact for Elkhorn:  
Kelly Magleby

## International Standard Accuracy Contest (ISAC) Scores

### 2025 ISAC Results for Men (Scores of 70 and Above)

PLAC E	TIE PLAC EMENT	SCORE	NAME		CITY OF RESIDENCE	STATE/ COUNTRY	DATE OF THROW	CONTEST
1		97xx	Kevin	Ashley	Estill Springs	TN	6/7/2025	Old Stone Fort, Manchester, TN
2		97	Marlin	Bassett	Warsaw	NY	9/6/2025	Among the Hills, Nunda, NY
3		96xx	Ben	Struzynski	Hortonville	WI	9/18/2025	Chimney Point, Addison, VT
4		94xxx	Douglas	Bassett	Warsaw	NY	8/24/2025	Eastern Seaboard, Letchworth, NY
5		93xxx	Matthieu	Lacoste	Le Mas d'Azil	FRANCE	8/10/2025	Le Mas d'Azil, FRANCE
6		92xxx	Mike	Glenn	Lucasville	OH	7/18/2025	Steve's House, Pomeroy, OH
7		92xx	Ray	Strischek	Athens	OH	10/11/2025	Debbie's House, Albany, OH
8		92x	Cyrille	Huc	Le Mas d'Azil	FRANCE	8/24/2025	Bougon, FRANCE
9		90	Ryan	Grohsmeier	Addison	NY	5/10/2025	Among the Hills, Nunda, NY
10		89x	Gerhard	Wiesler	Puch bei Weiz	AUSTRIA	8/17/2025	Puch bei Weiz, AUSTRIA
11		89	Jordan	Ashley	Winchester	TN	10/4/2025	Old Stone Fort, Manchester, TN
12		89	Luis Angel	Breton	Valganon	SPAIN	5/3/2025	Valganon, SPAIN
13		89	Antonio	Fernandez Aguilera	Benahadux	SPAIN	9/28/2025	Benahadux, SPAIN
14		88xx	Ken	Faucher	Dover	NH	7/18/2025	Moultonborough, NH
15		88x	Ciprian	Paul Coanta	Molledo	SPAIN	8/30/2025	Puente Viesgo, SPAIN
16		88	Ansgar	Lukas	Munich	GERMANY	6/1/2025	Gleisdorf, AUSTRIA
17		88	Greg	Maurer	Vergennes	VT	2/16/2025	Silver Springs, FL
18		88	Owen	Wilkins	Orange	CA	9/6/2025	Orange, CA
19		87x	Carter	Ashley	Estill Springs	TN	6/6/2025	Old Stone Fort, Manchester, TN
20		87	Cedric	Claustre	Escalquens	FRANCE	5/17/2025	Loudenvielle, FRANCE
21		87	Jim	Fisher	Grand Island	NY	5/11/2025	Among the Hills, Nunda, NY
22		87	Jurgen	Junkmanns	Erfstadt	GERMANY	4/20/2025	Vassieux-en-Vercors, FRANCE
23		86x	Steve	Barnett	Pomeroy	OH	6/14/2025	Meadowcroft, Avella, PA
24		86	Steve	Hall	Louisville	KY	9/28/2025	Tim's House, Indianapolis, IN
25		86	Pete	Piraino	Nunda	NY	9/26/2025	Among the Hills, Nunda, NY
26		85xx	Gary	Fogelman	Turbotville	PA	8/22/2025	Eastern Seaboard, Letchworth, NY
27		84xx	Randy	Whaley	Leon	WV	10/4/2025	The Plains, OH, Mound Fest
28		84x	Asier	Lopez DeAlda	Murua	SPAIN	8/9/2025	Le Mas d'Azil, FRANCE
29		84	James	Turner	Spokane	WA	5/26/2025	Between the Rivers, Valley, WA
30		83xx	Jim	Gnapp	Ladysmith	BC	5/29/2025	Between the Rivers, Valley, WA
31		83x	Joachim	Martz	Engen	GERMANY	8/17/2025	Puch bei Weiz, AUSTRIA
32		83	Charles	Swanson	Knoxville	TN	10/4/2025	Old Stone Fort, Manchester, TN
33		82x	Eric	Botté	Druelle	FRANCE	4/20/2025	Vassieux-en-Vercors, FRANCE
34		82x	Dave	Patterson	Ashland	MO	6/7/2025	Graham Cave State Park, MO
35		82	Andrew	Donovan	Avella	PA	6/15/2025	Meadowcroft, Avella, PA
36		82	Juan	Guirado Garcia	Benahadux	SPAIN	9/28/2025	Benahadux, SPAIN
37		82	Tim	Hall	Indianapolis	IN	6/15/2025	Meadowcroft, Avella, PA
38		81x	Barnes	Barnes	Florence	MT	5/27/2025	Between the Rivers, Valley, WA
39		81	Andy	Majorsky	Derry	PA	9/18/2025	Chimney Point, Addison, VT
40		80x	Valentin	Ducrot	Arignac	FRANCE	9/13/2025	Tarascon sur Ariege, FRANCE
41		80	Ryan	Moore	Sandpoint	ID	2/21/2025	Wintercount, Florence, AZ
42		80	Mike	Waters	Greenwood	NY	8/24/2025	Eastern Seaboard, Letchworth, NY
43		79xxx	Jerry	Nevins	Jefferson City	MO	9/20/2025	Graham Cave, MO

PLAC E	TIE PLACE MENT	SCORE	NAME		CITY OF RESIDENCE	STATE/ COUNTRY	DATE OF THROW	CONTEST
44		79xx	Mike	Caldwell	Cleveland	OH	9/14/2025	Pawpaw Fest, Albany, OH
45		79xx	John	Whittaker	Grinnell	IA	9/28/2025	Bois d'Arc, Danville, MO
46		79x	Chris	Dawson	St Sauvan	FRANCE	8/30/2025	Puente Viesgo, SPAIN
47		78x	Christian	Carrière	Montauban	FRANCE	8/2/2025	La Chapelle aux Saints, FRANCE
48		78x	Cedric	Claustre	Escalquens	FRANCE	9/14/2025	Tarascon sur Ariege, FRANCE
49		78	Flavien	Beauquel	Fagnieres	FRANCE	9/21/2025	Zonhover, BELGIUM
50		78	Mike	Goot	Colville	WA	5/25/2025	Between the Rivers, Valley, WA
51		76xx	Tom	Tobin	Moultonborough	NH	9/19/2025	Chimney Point, Addison, VT
52		76x	Antoine	Boulangier	Unknown	FRANCE	8/10/2025	Le Mas d'Azil, FRANCE
53		76	Laurent	Bernat	Fleurac	FRANCE	8/2/2025	La Chapelle aux Saints, FRANCE
54		76	Claude	Castan	Toulouse	FRANCE	8/9/2025	Le Mas d'Azil, FRANCE
55		76	Steve	Gatesy	Millbury	MA	9/20/2025	Chimney Point, Addison, VT
56		76	Juan Luis	Navarro Perez	Benahadux	SPAIN	9/28/2025	Benahadux, SPAIN
57		75	Alain	Lacoste	Toulouse	FRANCE	8/9/2025	Le Mas d'Azil, FRANCE
58		74x	Glenn	Fretwell	Jordan Valley	OR	8/30/2025	Jordan Valley, OR
59		74x	Scott	Van Arsdale	Otego	NY	8/22/2025	Eastern Seaboard, Letchworth, NY
60		74	Pierre	Fenié	Montauban	FRANCE	9/13/2025	Tarascon sur Ariege, FRANCE
61		73x	Kevin	Verhulst	Ottumwa	IA	5/16/2025	Osage Knap-in, Columbia, MO
62		73	Julian	Saenz-Lopez	Gamellan	SPAIN	9/13/2025	Tarascon sur Ariege, FRANCE
63		72	Don	Roberts	Toronto	OH	6/14/2025	Meadowcroft, Avella, PA
64		71	Jacques	Bohere	Tarascon	FRANCE	8/9/2025	Le Mas d'Azil, FRANCE
65		71	Emmanuel	Demoulin	Foix	FRANCE	9/14/2025	Tarascon sur Ariege, FRANCE
66		70	Austin	Fisher	Grand Island	NY	8/22/2025	Eastern Seaboard, Letchworth, NY

### 2025 ISAC Results for Women (Scores of 50 and Above)

PLACE	TIE PLACE MENT	SCORE	NAME		CITY OF RESIDENCE	STATE/ COUNTRY	DATE OF THROW	CONTEST
1		82x	Sue	Mercer	Attica	NY	5/11/2025	Among the Hills, Nunda, NY
2		81x	Martha	Blair	Nunda	NY	8/16/2025	Among the Hills, Nunda, NY
3		80	Dawn	Kneib (formerly Wagner)	St Charles	MO	6/7/2025	Graham Cave State Park, MO
4		77	Vicky	McConnell	Jordan Valley	OR	8/31/2025	Jordan Valley, OR
5		75	Ludivine	Franceschi	Quinson	FRANCE	8/2/2025	La Chapelle aux Saints, FRANCE
6	*	69	Sue	Piraino	Nunda	NY	5/23/2025	Among the Hills, Nunda, NY
7	*	69	Maren	Petersen	Erfstadt	GERM	8/9/2025	Le Mas d'Azil, FRANCE
8	*	65	Lori	Majorsky	Derry	PA	8/29/2025	Coshocton, OH
9	*	65	Nisa	Holbrook	Charleston	WV	10/4/2025	The Plains, OH, Mound Fest
10	*	62x	Emilie	Huc-Claustre	Escalquens	FRANCE	9/13/2025	Tarascon sur Ariege, FRANCE
11	*	62x	Alex	Grohsmeyer	Addison	NY	8/22/2025	Eastern Seaboard, Letchworth, NY
12		61	JoAnne	Fogelman	Turbotville	PA	8/23/2025	Eastern Seaboard, Letchworth, NY
13		61	Anita	Lukes	West Lafayette	OH	9/27/2025	Tim's House, Indianapolis, IN
14		58	Maria	Villotti	Dormont	PA	6/14/2025	Meadowcroft, Avella, PA

## 2025 ISAC Results for Women (Scores of 50 and Above)

PLACE	TIE PLACE MENT	SCORE	NAME		CITY OF RESIDENCE	STATE/COUNTRY	DATE OF THROW	CONTEST
15		57	Maria Isabel	Avila Parra	Benahadux	SPAIN	9/28/2025	Benahadux, SPAIN
16		56	Kerry	Opel	York	PA	6/14/2025	Meadowcroft, Avella, PA
17		55	Annie	Bernauer	Victor	MT	6/21/2025	Crafted Wild, Victor, MT
18		55	Marlen	Mischler	Tauffelen	SWITZ	8/3/2025	Archeopark Boario Terme, ITALY
19		55	Sondra	Riviere	Tautavel	FRANCE	9/14/2025	Tarascon sur Ariege, FRANCE
20		54	Chris	Cox	Hunt	NY	7/12/2025	Among the Hills, Nunda, NY
21		54	Jennie	Flint	Dalton	NY	4/20/2025	Among the Hills, Nunda, NY
22		54	Karen	Storks	Viersen	GERM	9/21/2025	Zonhover, BELGIUM
23		53	Danielle	Gundlach-Cassley	Victor	MT	7/19/2025	Crafted Wild, Victor, MT
24		53	Margie	Takoch	Wintersville	OH	8/29/2025	Coshocton, OH
25		52	Ambre	De Juan	Chaniers	FRANCE	8/24/2025	Bougon, FRANCE
26		52	Amandine	Devie	Fagnieres	FRANCE	9/21/2025	Zonhover, BELGIUM
27		50	France	Fenié	Montauban	FRANCE	8/10/2025	Le Mas d'Azil, FRANCE
28		50	Rosie	Homer	Alexandria	NH	9/20/2025	Chimney Point, Addison, VT

## 2025 ISAC Results for Youth (Scores of 40 and Above)

PLACE	TIE PLACE MENT	SCORE	NAME		CITY OF RESIDENCE	STATE/COUNTRY	DATE OF THROW	CONTEST	AGE
1		65	Zuhaitz	Larranaga	Murua	SPAIN	8/10/2025	Le Mas d'Azil, FRANCE	9
2		61x	Talon	Ashley	Estill Springs	TN	6/7/2025	Old Stone Fort, Manchester, TN	14
3		57	Preston	Fretwell	Mount Vernon	OR	8/30/2025	Jordan Valley, OR	16
4		49x	Tom	Lukas	Munich	GERMANY	8/3/2025	Archeopark Boario Terme, ITALY	14
5		47	Avery	Kempfer	Mayville	WI	5/17/2025	New London, WI	13
6		46	Ada	Bernauer	Victor	MT	8/9/2025	Sweathouse Creek, Victor, MT	13
7		42	Diego	Fernandez	San Felice de Buelan	SPAIN	7/12/2025	Essenteria, SPAIN	13
8		41	Lexuri	Larranaga	Murua	SPAIN	8/10/2025	Le Mas d'Azil, FRANCE	12

# 30<sup>th</sup> Northeastern Open Atlatl Championship

## Chimney Point SHS – Addison, VT

By Douglas Bassett

This year also hosted the World Atlatl Association Annual Meeting 18-21 September 2025. Eleven different events were conducted over the four-day event.



Opening Ceremony (September 20, 2025)

The **Northeastern Open Atlatl Championship** was conducted on Saturday and consisted of two parts (accuracy & distance). Accuracy points were made on 6 homemade targets thrown at 10 & 15 meters. Distance points were added to accuracy points based on ½ the longest distance of the 2 primitive darts that were thrown in meters. Forty contestants participated from 9 states (VT, NY, NH, CT, MA, RI, PA, VA & WI)

Girls: 1) 51.5 Ava Stetzel (VT), 2) 33 Lucy Rainville (VT), 3) 31 Ava Nolf (CT)

Boys: 1) 28 Theo Rainville (VT), 2) 14 Cedric Thouin (VT), 3) 8.5 Connor Tabor (NY)

Women: 1) 94 Sue Mercer (NY), 2) 73.5 Lilian Clark (VT), 3) 71 Emily Yonke (WI)

Men: 1) 130.5 Marlin Bassett (NY), 2) 129.5 Douglas Bassett (NY), 3) 128.5 Ben Struzynski (WI)

**ISACs** were held on all four days. 30 people from eight states made 74 entries on 17 flights

**ISACs** were held on all four days. 30 people from eight states made 74 entries on 17 flights

Youth: 1) 15 Ava Nolf (CT), 2) 15 Ava Stetzel (VT), 3) 7 Lucy Rainville (VT)

Women Sue Mercer (NY), 2) 62 Lori Majorsky (PA), 3) 50 Rosie Homer (NH)

Men: 1) 96-2X Ben Struzynski (WI), 2) 94-2X Marlin Bassett (NY), 3) 90-X Douglas Bassett (NY)

The **US Open** was held Fri-Sat. Same rules as ISAC, but target is the long distance 122cm colored archery target. 18 people from 7 states made 32 entries on 8 flights. Top 5 qualifiers (highest scores in each division) competed at the close of events on Saturday for trophies.

Youth: 1) 11 Ava Stetzel (VT), 2) 7 Ava Nolf (VT), 3) 6 Ansley Montgomery (VT)

Women: 1) 53-X Sue Mercer (NY), 2) 43 Lori Majorsky (PA), 3) 33 Emily Yonke (WI)

Men: 1) 77 Marlin Bassett (NY), 2) 75 Douglas Bassett (NY), 3) 74 Ben Struzynski (WI)

Eight other local events took place mostly on Friday

**Tight Grouping** consisted of the added tape measures around three darts hitting a target at 10 & 15 meters. 13 people participated. First Place: 1.02m Ben Struzynski, Honorable Mention: 1.14m Marlin Bassett, 3<sup>rd</sup> Place: 1.28m Douglas Bassett.

**Closest to Pin** consisted of the closest point to a stake of five thrown darts. ISAC sores of 75+ threw from about 35m, 50-74 threw from 30m, <50 threw from 25m. 12 people participated. First Place: 15cm Douglas Bassett, Honorable Mention: 25 cm Marlin Bassett, 3<sup>rd</sup> Place: 45cm Emily Yonke.

**10 & 15 Meters** consisted of the total scores of 5 darts thrown at 10m and 15m on various types of targets. 12 people participated. First Place: 54-X Greg Maurer, Honorable Mention: 51 Andy Majorsky, 3<sup>rd</sup> Place: 39 Marlin Bassett.

**Card Game** consisted of a target display of 52 cards. Each player threw until five cards were hit for the value of their poker hand. 10 people participated. First Place: 2 pair (Queens over 10s) Tom Tobin, Honorable Mention: 2 pair (9s over 5s) Lori Majorsky, 3<sup>rd</sup> Place 1 pair (Aces) Emily Yonke.

**Down Hill** consisted of 5 throws at an ISAC target flat on the ground from a hill about 15' higher and about 25m away. 10 people participated. First Place: 25 Ben Struzynski, Honorable Mention: 24 Marlin Bassett, 3<sup>rd</sup> Place: 20 Lori Majorsky.

**I-Ching** consisted of a target: 8-ring – 27cm diameter, 6-ring out to 61cm diameter and 4-ring out to 73cm diameter. Four darts thrown from 15m and 20m and then repeated for a total of 16 throws and potential score of 128. 5 people participated. First Place: 94 Ben Struzynski, Honorable Mention: 92 Douglas Bassett, 3<sup>rd</sup> Place: 90 Ken Faucher.

The **Ohio** is thrown on the long distance 122cm colored archery target. There are seven divisions of which the four participants threw 3 darts from 5 distances. Novice women and men 10, 12, 15, 17, 20 meters and Masters 15,17, 20, 22, 25 meters. First Place: 91 Ben Struzynski, Honorable Mention: 81 Marlin Bassett, 3<sup>rd</sup> Place: 66 Greg Maurer.

The **Mini** follows the same rules as the ISAC but target is the 37cm colored archery target. 4 people participated. First Place: 27 Douglas Bassett, Honorable Mention: 16 Ken Faucher, 3<sup>rd</sup> Place: 13 Scott VanArsdale.

---

## Minutes from 2025 WAA Annual Meeting Chimney Point State Historic Site, VT

### September 20, 2025

CALL TO ORDER:

Anita Lukes, as the officer present, called the 38<sup>th</sup> Annual Meeting of the World Atlatl Association to order. There were 20 members in attendance

Anita reviewed reports from the following:

**Secretary's Report: Deb Andrews--** the 2024 Annual Meeting Minutes were reviewed and approved as written

**Treasurer's Report: Anita Lukes--** the Fiscal Year Report for 7/1/2024 to 6/30/2025

Beginning Balance      \$4558

Ending Balance \$6941

Memberships brought in \$4500

Greatest expenses were for Top Ten Awards, Website costs, and Newsletter Printing

The net surplus of approximately \$1600 is about \$1000 artificially high due to membership fees paid by check from the previous year not being deposited until this fiscal year. The Treasurer's Report for 2025-2026 should be much more accurate

## **Annual Meeting Committee Report**

Members: Len Riemersma, Gary Nolf, Ron Mertz

The committee selected sites for 2025, 2026, and 2027 over this last year.

2025: East Region--Chimney Point Historical Site, Addison, VT

2026: West Region--Victor, WY, hosted by Danielle Gundlach-Cassley and her company Crafted Wild.

2027: Central Region—Cahokia Mounds, hosted by Missouri Atlatl

## **ISAC Committee Report**

Members: John Whittaker, Deb Andrews, Dave Patterson

John Whittaker reported that he has retired from Grinnell College and moved to California. The importance of this is that ISAC scoresheets should, preferentially, be sent by email: still [whittake@grinnell.edu](mailto:whittake@grinnell.edu) (no “r” at the end of whittake)

If impossible to send by email, ISAC score sheets should be sent to

**John Whittaker at 1034 Sir William Ct, Chico, CA, 95926** postmarked no later than 30 days after the contest.

Secondly, Jerry Nevins and Dave Patterson introduced the Junior ISAC with shorter ranges, i.e, 10 and 15 meters. This year there were 39 scores submitted with most scores coming from 2 sites, Victor, MT and Valley, WA. There was a Junior score submitted from Columbus, OH and 2 (same youth) from events in Spain.

John proposes that “high score” compilations be posted under “Junior Short Range ISACs” limited to age 10 and under with scores of 30 and over (so far there are 8 out of 39 that would qualify. John also suggests that once scoring at this level, they should move to normal range competition.

He also suggests that, at this level, no trophies/plaques other than perhaps paper certificates be awarded.

## **Nominating Committee**

Members: Ron Mertz, Margie Takoch, Lenny Riesmersma

## **Election Results**

Election Manager: Lori Majorsky

*For elections, see article elsewhere in the newsletter*

**Newsletter Editor Report:** Frank Lukes will be stepping down from the editor’s position 12/31/2025

**UNFINISHED BUSINESS: none**

## **NEW BUSINESS**

Summary of Bylaw Changes approved by 2/3 vote of members present

In the near future, the newly revised Bylaws will be downloadable from the website. Below is a summary of changes made:

Criteria and a pathway for removing an Officer or Board Member for failing to perform duties, pay dues, and/or for illegal, or unethical behavior was added to the Bylaws.

An allowance was made for at least 1 but no more than 4 of the twelve existing Board of Directors to be non-US residents

President and Vice President terms were extended from 2 to 3 years.

Presidents and Vice Presidents are to be elected in different years; Secretaries and Treasurers are to be elected in different years

Provisions were made for virtual Board meetings, i.e., Zoom or something similar.

Junior ISAC awards and recognition

Awards: A motion was made and seconded to award Juniors paper certificates, not plaques/tropies and encourage but not mandate that they move upward to the normal ISAC distances.

Publication of names, e.g., newsletter, website: Regarding publishing 10 year old and younger Juniors who score 30 or better in the newsletter and/or the website was discussed. Concerns were expressed about publishing names and their city/states, particularly on the website where anyone could access. The Atlatl newsletter is only accessible by members. The consensus of those present was to gather viewpoints of parents and those hosting the events in Victor, MT and Valley, WA as well as any other interested WAA members and revisit, at the latest, at the next Annual Meeting.

A motion to adjourn was moved and seconded and unanimously accepted.

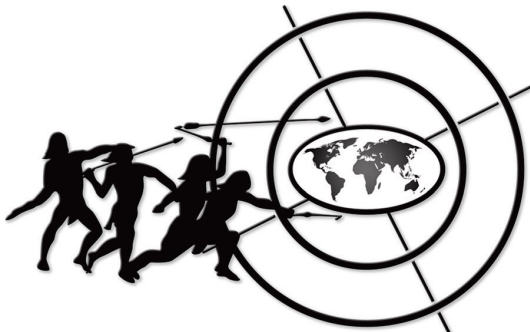
**Frank Lukes**

**3809 Broadview Road**

**West Lafayette, IN 47906**

**Phone: (317) 242-9984 (Cell — Leave Message)**

**Or Email: [theatlatl@gmail.com](mailto:theatlatl@gmail.com)**



**The WORLD ATLATL ASSOCIATION, Inc.**

**The date that your membership expires follows your name in the address above.**

## **INITIAL PLANS AND INFORMATION FOR THE 2026 WORLD ATLATL ASSOCIATION ANNUAL MEETING**

- **Dates** for the Annual Meeting will be July 24 to 26, 2026
- **Contact Person:** Danielle Gundach-Cassley (Phone— 650-302-4305)
- **Location** is 1427 Burr Ridge Road; Victor, Montana 59875 (Located approximately 40 miles south of Missoula, Montana). Crafted Wild is hosting the event and attendees are required to sign their liability waiver.
- The amount of on-site camping is being determined based on insurance and county permissions. Attendees will need to register in advance to camp on-site. There are a number of options for lodging off-site and a list will be provided in future newsletters.
- Danielle is researching shuttle options for attendees flying in or staying at hotels. Parking at the meeting site should be adequate, but carpooling is encouraged.
- Crafted Wild has a friend who is a tribal elder who will give a history of the area. She is also open to sharing some non-atlatl native games and stories with the group in the evenings.
- Suggestions of atlatl contests for the meeting are welcome.
- Schedules/agendas from past meetings will be helpful to plan a schedule for this annual meeting.
- The member meeting is likely to be outdoors under a large canvas shelter. The weather in July tends to be hot and the shade from the shelter will be welcome (as well as shelter from rain showers).
- Danielle is working on a catered meal (she is working with some of her school families). The potluck/BBQ dishes will provide a beautiful cost efficient meal for attendees. The proceeds from the meal will also go toward scholarships for kids programs.