



THE ATLATL

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

Volume 31, Number 4

Frank Lukes, Editor

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Website: www.worldatlatl.org

Atlatl Weights Found in Montana: An Atlatlist's Perspective

By Troy C. Helmick

Editor Note: It's happened again!! The creative pool for your old editor ran dry for this edition of the Newsletter. I decided to pay tribute to Troy Hemick (the notice of his passing appeared in the April 2018 edition of *The Atlatl*). Troy's article originally appeared in the July 2001 edition of *The Atlatl*. Some of the references in the article are dated. However, the information in Troy's article is very interesting.

INTRODUCTION

The compound weapon system (throwing board [launcher] and dart) called the atlatl has been used on nearly every continent. Archaeological evidence suggest that this system was in use more than 9,000 years ago in North America and much earlier in Europe. While the advent of the bow and arrow effectively replaced the atlatl, it is still used in Australia, Mexico, the Arctic, and areas of Asia. Despite the fact that the atlatl system was used for thousands of years in North America, few complete systems have been recovered. More common are the shaped, ground, drilled or inscribed stone artifacts that may have been atlatl components. Due to uncertainty regarding the use or purpose of these objects, they have generally been classified and described according to their shape or appearance. Terms such as boatstone, birdstone, bannerstone, fetish, good luck charm or problematical object have been used to describe these artifacts. Most are now commonly grouped under the term "atlatl weight."

Columbia and lower Frazer River Valleys, one specimen was found in Montana. It was collected by William Holm of Seattle on a gravel bar in the Musselshell River, 8 km west of Roundup, Montana (Fig. 2-1, Table 1). The weight has a bulging, dome-like midsection and a wide longitudinal basal groove. The side and top taper in toward the narrow-upturned ends. Over the upper edge of each end is a series of short whisker-like incised lines. A narrow three-quarter groove runs up the sides and over the top at midsection (Figure 2-1). That type of atlatl weight has been reported no farther west than Montana and the authors thought it might have a more easterly distribution.

Eight years later, Robert Neuman (1967) published data on 60 atlatl weights from 39 locations in the Plains region of Canada and the north-central United States. Neuman divided the 709 artifacts into four classes based primarily on shape and weight. He reported the same atlatl weight from Montana that had been previously listed by Butler and Osborne and stated: "to my

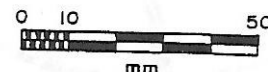
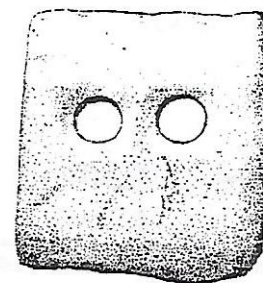


Figure 3. The perforated atlatl weight from the Stark Bison Kills Site (Davis et al. A997). Artifact 2

MONTANA ATLATL WEIGHTS

Forty years ago, B. Robert Butler and Douglas Osborne (1959) examined and described 104 whole and fragmentary probable atlatl weights from Northwestern North America. They classified the stones based on lashing grooves, notches, holes, or scars into three types. While most of the weights came from the lower

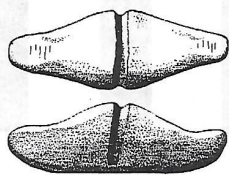


Figure 1. Dorsal and Lateral Views of Artifact 1

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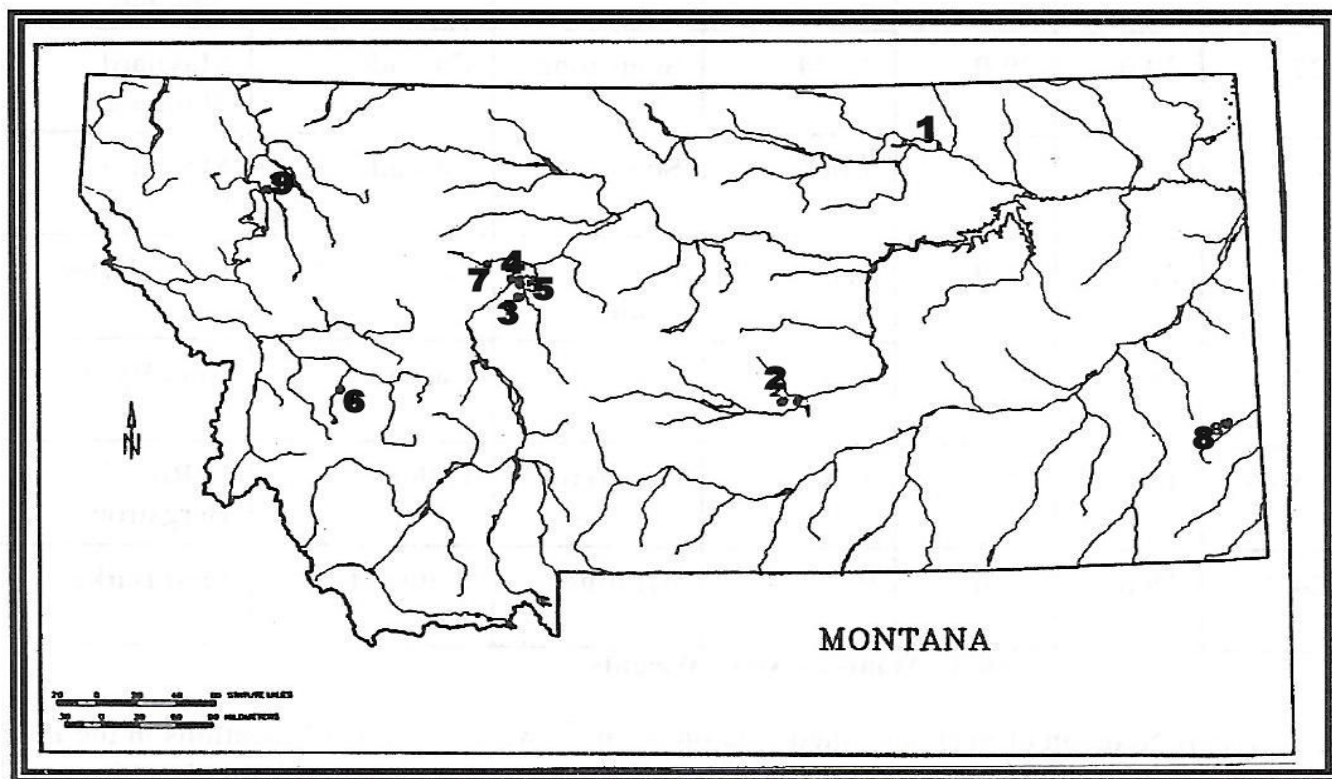


Figure 2.

Artifact Number	Length (mm)	Width (mm)	Height (mm)	Weight (gr)	Elevation (m)	Material	Location (County)	Found By
1	83.0	30.0T	26.0	79.0	975	Limestone	Mus-selshell	William Holm
2	52.0	---	60.0	---	1,025	Unknown	Cascade	Joseph Cramer and Oscar Lewis
3	30.0	15.5	11.5	9.0	1,112	Catlinite	Cascade	Maynard Shumate
4	51.0	22.5	20.0	29.0	1,024	Soapstone	Cascade	Maynard Shumate
5	---	---	---	---	1,006	Soapstone	Cascade	Maynard Shumate
6	78.6	25.1	27.0	77.9	1,433	Black Shale	Granite	Frank Krieg
7	78.1	24.1	18.5	48.9	1,067	Concretion	Cascade	John Byrd
8	42.0	16.4	12.1	15.5	1,067	Concretion	Fallon	LeRoy Bergstrom
9	96.5	24.2	18.6	77.6	914	Argillite	Flathead	Fred Barker

Table 1. Montana Atlatl Weights

knowledge only one atlatl weight has been reported from Montana."

Neuman said the weight was almost an exact replica of one from the Boundary Mound site in North Dakota and placed it in his Class II. The age of the Class II weights based on radiocarbon dates from the North Dakota site was estimated at A.D. 200. The range of dimensions for Neuman's Class II atlatl weights are: length 45-115 mm, width 15-30 mm, height 12-26 mm, and weight 12.7-93.3 gr. Unknown to Neuman at that time, at least one other possible atlatl weight had been found in Montana. In the 1950's at the site 25 km west of Roundup, Montana, and north of Musselshell River (Figure 2-2), Joseph Cramer and Oscar Lewis recovered an artifact that may be an atlatl weight (Figure 2-2) (Davis et. al. 1997) Two holes had been drilled through his artifact, which appears to be more comparable to artifacts from the Dalles region of Washington and Oregon as described by Butler and Osborne (1959).

A few atlatl weights have been found and reported in Montana since 1967, all of which fit most closely into Neuman's Class I. the dimensions for Neuman's Class I atlatl weights are length 14-94 mm, width 14-33 mm, height 12-27 mm, and weight 11.3-79.2 gr. The age range of Class I artifacts, based on radiocarbon date and associations with excavations that yielded diagnostic artifacts, is A.D. 500 to 2500 B.C.

In 1974, Maynard Shumate (1974) reported three atlatl weights from West-Central Montana, found in a localized area between Cascade and Ulm (Figures 2-3,4,5). One of Shumate's weights was made of Catlinite from quarries in Minnesota (Figure 4-3); it is the smallest of the atlatl weights, yet found in Montana and is also the most ornate, with incised lines that must be decorative rather than functional; Another atlatl weight reported by Shumate is made of sandstone (Figure 4-4) and the last, a fragmentary atlatl weight, was made of soapstone or steatite.

Thirteen years later, two more atlatl weights were reported in Montana (Sims 1987). One weight was found 4 km west of Fort Shaw by John Byrd of Canyon Ferry, Montana. The other was found west of the Continental Divide, 16 km north of Phillipsburg, Montana by Frank "Bud" Krieg (Figures 2-6,7). The Byrd artifact (Figure 5-7) was found 20 km west of the Shumate sites. The Krieg artifact (Figure 5-6) is the first atlatl weight reported west of the Continental Divide in Montana. It weighs 77.9 gr, 1.1 gr less than the first reported Montana atlatl weight from the Musselshell River gravel bar.

Additional Montana Atlatl Weights

The area of known distribution of atlatl weights in Montana

is now greatly expanded with the addition of two previously unreported artifacts found 775 km apart. One was found east of the Continental Divide in Southeastern Montana and the other west of the Continental Divide in Northwestern Montana (Figures 2-8 and 2-9). The atlatl weight from eastern Montana (Figure 6.8) was found by LeRoy Bergstrom of Belgrade, Montana more than 25 years ago. The artifact was found in Fallon County on the surface of a prominent hill, 5 km south of Baker Mountain, Montana (Figure 2-8).

The artifact (Figure 6.8) is made of a dark brown concretion which normally forms in Southeastern Montana. It is 42 mm long, 16.4 mm wide, 12.1 mm high and weighs 15.5 gr. In plan view it is rectangular with rounded ends and has been shaped by grinding on most surfaces. In cross section, it is planoconvex with a slight concavity of the plane surface along the long axis. A narrow, shallow groove encircles the convex surface, perpendicular to the long axis near the midpoint. It is the second reported Montana atlatl weight made from concretion.

The Western Montana atlatl weight (Figure 6.9) was found 50 years ago by Fred Barker of Bigfork. It was the second atlatl weight report from Montana west of the Continental Divide and is the only reported sub-surface recovery. The artifact was found in the root mass of a tree during the removal of stumps from a field 6 km northwest of Bigfork, Montana (Figure 2-9). The artifact was made of Maroon-colored Precambrian argillite which displays parallel bands of lighter and darker colors. It is 96.5 mm long, 24.2 mm wide, 18.6 mm high and weighs 77.6 gr (only 0.3 gr less than the Krieg artifact). In plan view, it is rectangular with rounded ends and had been incised across the convex surface, perpendicular to the longitudinal axis. The size, type, and material of the artifact may be more typical of atlatl weights reported in Washington, Oregon, and Idaho (Butler and Osborne 1959, Butler, 1965).

Table 1 and Figure 2 list the nine atlatl weights reportedly found in Montana. The two weights recently reported by LeRoy Bergstrom and Fred Barker expand the known area of distribution of atlatl weights west to east, from border to border in Montana. The limited number of artifacts provides interesting and informative data. The variation in materials and types of the Montana atlatl weights indicates the existence of migration and trade routes far outside the collection area during the time when atlatl weights were made and used.

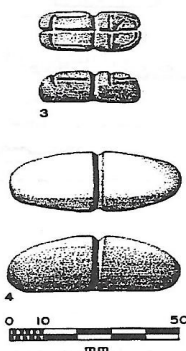


Figure 4. Dorsal and lateral views of artifacts 3 and 4

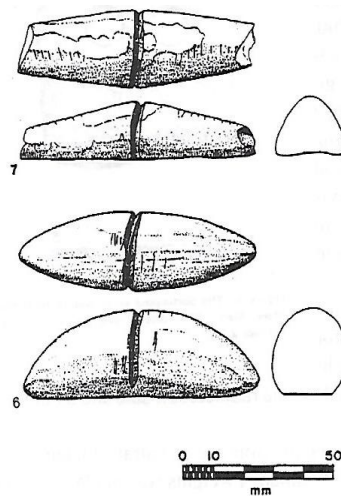


Figure 5. Dorsal and lateral views of artifacts 6 and 7

The Function of the Atlatl and Atlatl Weight

As the weapon of choice for thousands of years, the atlatl system was and is used successfully in a wide variety of configurations. For example, the Eskimos use a rigid throwing

board approximately 33 cm long to launch darts that are 105 cm in length. In contrast, hunters in New Guinea and Australia are using rigid throwing boards as long as 120 cm to throw darts as long as 340 cm (Stodiek 1994). With the wide variety of atlatl configurations that have been found around the world, the flexible throwing stick and attached atlatl weight may be a uniquely North American adaptation (Tate 1986). The function of the atlatl weight has not been clearly determined. Proposed explanations for the function of the atlatl weights include:

1. It serves as a counter-balance to allow hunters to hold the atlatl in ready position for long periods of time without tiring.
2. The added weight increases the velocity and distance of the thrown dart.
3. It forces the shaft of the throwing stick to flex and store energy
4. It decreases the speed of the throwing stick spur and reduces the compression of the flexible dart.
5. It synchronizes the flex of the throwing stick with the flex of the dart for a more efficient launch.
6. It is a silencer.
7. It is a fetish or good luck charm.
8. It contributes to a smoother, more controlled, and powerful launch and improves the accuracy of the system.

Several anthropologists and archaeologists have conducted research with the atlatl to determine the function and performance of the system, both with and without the "atlatl weight." Difficulty experienced by these researchers have included equipment problems and operator proficiency shortfalls. As a result, some of their findings have been confusing and contradictory.

A resurgence of interest in the atlatl has occurred in the past decade and a new culture of recreational and competitive atlatlists has developed, i.e. The World Atlatl Association. Members of the new culture are reinventing the atlatl and continuing the research in both scientific and practical contexts. The scientific context generally seeks answers in terms of mathematics, physics, and computer models (e.g., Perkins 1993; Engvall 1995). The practical research evaluates system design,

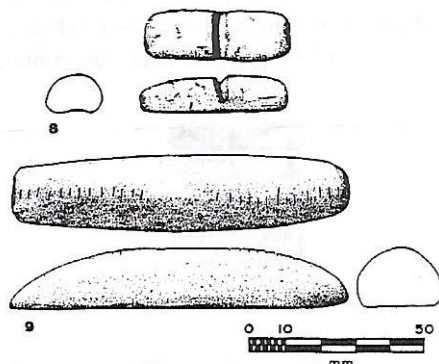


Figure 6. Dorsal and lateral views of artifacts 8 and 9.

weight effects, throwing technique, and a variety of other factors that might have been manipulated by prehistoric atlatlists (e.g. Raymond 1986; Strischek 1996). The distinction between scientific and practical research is not always clear. The data gathered in both contexts are often beneficial to other research.

Regardless of the context, a common thread links all atlatl research, in many cases, with confusing or contradictory

results. Take the following case in point. Wayne Brian of Mesa, Arizona, designed an atlatl system for long-distance throwing and *The Guinness Book of World Records* reported his world record throw (Tate 1992, 1995). Brian used a very flexible throwing stick with a 15-gr weight to establish the world record and accomplish his longest throw of 221.6 m. he stated that the proper placement of

the weight on his throwing stick significantly increased the distance he could throw a dart (Brian, personal communication 1997). The current world record distance for an atlatl

throwing dart is 258.6 m held

by David Engvall of St. Joseph Missouri. Engvall used a computer program to design his high-tech atlatl for the record throw (Engvall 1955; Forsberg 1996). He experimented with several configurations of atlatl weights, but due to inconsistent results, did not use a weight for his world record throw (Engvall, personal communication, 1997). Similar conflicting findings have resulted from other research.

There is no conventional wisdom regarding the function of the atlatl weight. However, most researchers agree

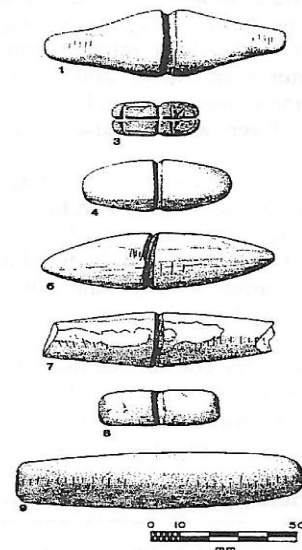


Figure 7. Comparative dorsal views of artifacts 1, 3, 4, 6, 7, 8, and 9.

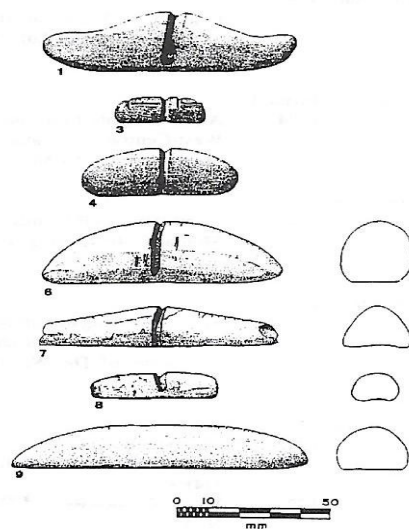


Figure 8. Comparative lateral view of artifacts 1, 3, 4, 6, 7, 8, and 9

that a weight of the proper size, located properly on the throwing stick shaft does stabilize the launch of the dart. When used as the primary hunting weapon, the maximum range that a dart can be thrown is of little concern. Of more concern is the ability to consistently hit a target within an effective range. If the addition of a weight to the shaft of the atlatl launcher improved the accuracy of the system, a hunter would be more successful and could reasonably consider the weight to be a good luck charm.

CONCLUSION

Jim Ray of Belt, Montana is the current Montana Atlatl Champion and winner of multiple titles in contests in other states. Jim uses a rigid throwing stick with an atlatl weight attached and his assessment of the system may best define the purpose of the weight. Jim says that, "If the atlatl does not feel right, it will not work

right." (Ray, personal communication, 1996).

The atlatl weight may under various conditions perform or provide any or all of the proposed functions listed above—for a good luck charm to a flex-synchronizing device. Most important to the atlatlists, *a weight add the right feel to the total atlatl system and improves throwing accuracy.*

Acknowledgments

The author is grateful to LeRoy Bergstrom and Fred Barker for making their personal atlatl weights available for study, to Richard Pettersen for his coordinating skills, and especially to Leslie B. Davis for his assistance and insistence during the development of this paper. My technical illustration of atlatl weights was supported by the Missile Systems of the Americas research project he directs for the Museum of the Rockies.

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2018 EVENT CALENDAR

DEADLINES

Sat. December 1, 2018—Mon. December 31, 2018 Competition Season Closed
 Sat. December 15, 2018—Deadline for January 2019 Newsletter

North America EVENT

DATE/STATE	EVENT
Fri 19 Oct Wisconsin	Muskrat City Rendezvous Fri 19 Oct 2018—Sat 20 Oct 2018 — Muskrat City: Kewaunee , Wisconsin — ISAC Friday evening , Saturday — Contact: Lenny 920-917-0335
Fri 19 Oct Missouri	Missouri Day Atlatl Throw Fri 19 Oct 2018 - Home of Steve and Barb Spencer: Trenton MO 64683 – United States Steve and Barb Spencer barbspencer@cebridge.net Barb 660-359-7597 or Home 660-359-3635 or Steve 660-654-3904 ISAC and other events throw at the Spencer's; please bring your lawn chairs. Contact barbspencer@cebridge.net for
Fri 19 Oct 2018 - Sun 21 Oct 2018 New York	2nd Annual Atlatl, Anvils, and Alpines, Oh, My! Fri 19 Oct 2018 - Sun 21 Oct 2018 10:00 - 20:00 Canisteo River Valley, Addison , NY - Ryan Grohsmeyer rjgt3b@mst.edu 3012473868 ISAC all three days; throwing starts at 17:00 Friday evening, then at 10:00 Saturday and Sunday. Animal Round, Terrace Toss, double- and triple-distance ISAC available, European round, and Anvil Throw on Saturday. Alpine goats provide live commentary throughout the weekend. Any edibles are welcome additions to the lunch table on Saturday. This even takes place at 11050 Co. Rte. 119, Addison NY 14801. Contact Ryan Grohsmeyer at (301)247-3868 or rjgt3b@mst.edu .
Fri 26 Oct Ohio	Ohio ROAR Days Fri 26 Oct 2018 - Sat 27 Oct 2018 at 00:00 - Zaleski State Forest: Zaleski OH Ohio ROAR Days – OAA will provide instruction and conduct atl atl accuracy contests. ISAC and Ohio locals. Friday evening (4:00) for atl atl, all day Saturday. Camping available. Contact Ray Strischek for more information, (ohioatl@hotmai.com) 740-331-4351 or Steve Barnett (barnz@juno.com) 740-698-6553.
Sat 27 Oct Wisconsin	W.A.S. Fall Gathering, Octoberfest Sat 27 Oct 2018 — Dundee Sportsman's Club, Dundee, WI. — ISAC, European, 3-D Targets — Contact Lenny 920-917-0335
Sat 3 Nov Wyoming	Frosty Blanket Atlatl Throw and ISAC Sat 3 Nov 2018—Sun 4 Nov 2018 at Trail's End: Cheyenne, Wyoming 82007-1680 Open to all equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Richard Russell coyoteclow@aol.com — 307-772-0550 for time
Sat 24 Nov Wyoming	Desperate Man Throw Sat 24 Nov 2018—Sun 25 Nov 2018 at Trail's End: Cheyenne, Wyoming 82007-1680 Open to all equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Richard Russell coyoteclow@aol.com — 307-772-0550 for time
Sat 1 Jun 2019	World Atlatl Day 2019 Sat 1 Jun 2019 World Atlatl Day (WAD) was initiated by Linda Brundage and the New York Atlatl Association in 2011. Due to its popularity, the WAA membership attending the 2012 Annual Meeting voted to officially recognize the first Saturday in June of each year as World Atlatl Day

EUROPE

Sat 20 Oct Nouvelle-Aquitaine France	Brasempouy, France Sat 20 Oct 2018 - Sun 21 Oct 2018 at All Day - La Maison de la Dame à Brasempouy: Brasempouy Landes Nouvelle-Aquitaine 40330 – France European event. ISACs Saturday and Sunday. Contact Christophe Chartier christophechartier@gmx.com for more information and location. The map shows La Maison de la Dame à Brasempouy.
Sat 20 Oct Andalusia Spain	Gorafe, Spain Sat 20 Oct 2018 - Sun 21 Oct 2018 at All Day - Parque Megalitico de Gorafe: Gorafe Granada Andalusia 18890 – Spain European event. Contact Miguel Pérez Navarro turismocimgorafe@gmail.com for more information.
Sat 17 Nov Centre-Val de Loire France	Aunay sous Auneau Sat 17 Nov 2018 - Sun 18 Nov 2018 at All Day - Auneau area in France: Auneau Centre-Val de Loire – France European event sponsored by Les Daims d'Auneau. Contact Fabrice Brutus fabrice.brutus@inrap.fr for more information.
Sat 1 Dec Castilla y León Spain	Atapuerca, Spain Sat 1 Dec 2018 - Sun 2 Dec 2018 at All Day - Museo de la Evolucion Humana: Atapuerca Burgos Castilla y León 09002 – Spain European event. Please note that the ISAC season closed on 11/30, so any ISACs thrown during this event will not count for the standings. Please contact Eduardo Cerda Romero eduardo@paleoliticovivo.com for more information.

HIGHLIGHTS OF THE ANNUAL MEETING

By Anita Lukes

Fiscal Year End Report (for Fiscal Year July 1, 2017 through June 30, 2018)

WAA began the year with \$3277.12 on hand and ended the year with \$4508.20.

The major sources of income were memberships (\$2940.67) and sale of merchandise (\$847.50). Major expenses included newsletter printing and mailing (\$631.81), awards (\$207.56), web charges (\$362), and merchandise purchases (\$848.29).

AUTHORIZATION OF \$600 FOR THE NEXT FISCAL YEAR FOR WEBSITE COSTS

Any expenditure over \$50 must be approved by the Board of Directors. This year I requested and the Board approved a total of \$600 to be used for website costs. WAA pays \$70 per year for 4 domain names—worldatlatl.org, worldatlatl.net, worldatlatl.com, and worldatlatl.info. We pay for the rights to .net, .com, and .info so that those sites are not used by someone else for a worldatlatl website. We pay \$60 per year to secure the site. In addition to the naming rights, we pay for space on a server each year costing \$165.

The above accounts for \$475. The additional \$125 approved may or may not be needed for additional enhancements to our website.

ELECTRONIC VOTING

The Board approved a motion to have the Executive Committee (Pres, VP, Sec, Treas) decide on a website company/program to add electronic voting to our current methods.

Last year only 13% of our members voted for officers (18 at the meeting and 11 by mail-in ballot against a total of 216 members). This year, again, only 13% of our members voted (32 at the meeting and 3 by mail-in ballot against a total of 268 members). The Board hopes that use of electronic voting plus continued use of mail-in ballots will increase the voting percentage and perhaps allow completion of voting prior to the annual meeting.

SUPPORTING AND CONTRIBUTING MEMBER LEVELS

Our webmaster, Janeen Grohsmeyer, alerted us to the fact that the WAA Bylaws include Supporting and Contributing member categories, but the Board of Directors, who define the level of dues for each member type, had never set an amount for these categories. Based on internet research of amounts that other organizations use for these categories, the Board defined dues for Supporting membership to be 2x the individual dues (\$30), with Contributing members to be 4x the individual dues (\$60).

You will see these new categories on WAA Application in this newsletter. The Board will determine some special gifts for each category and maybe a special designation based on the level, such as Woolly Mammoth Hunters or Saber Tooth Tiger Slayers. If you have some ideas, let us know.

BOARD RECOMMENDATION THAT ALL DART TIPS COME TO A POINT

The Board passed a recommendation/resolution that all dart tips should come to a point as opposed to blunt tips that tend to tear targets.

ELECTION RESULTS

The following individuals were elected: President—Douglas Bassett (NY), Executive Treasurer—Anita Lukes (IN), Board Member—Angelo Robledo (NV).

2019 ANNUAL MEETING SITE

In 2019 the Annual Meeting will be at Letchworth State Park in New York running from August 22 through August 25, 2019 with the Annual Meeting on Saturday, August 24.

The Annual Meeting sites rotate between East Region (defined by the Eastern Time Zone), the Central Region (Central Time Zone plus the states of MI, IN, KY, and TN), and the Western Region (Mountain and Pacific Time Zone states). The Western Region hosts in 2020, and the Central Region in 2021. The actual meet site is recommended by the Annual Meeting Site Committee and approved by the Board.

See you at Letchworth!

WAA ANNUAL MEETING AT GRAHAM CAVE STATE PARK , MISSOURI OCTOBER 4 TO OCTOBER 7, 2018

PICTURES TAKEN BY MARY AND LENNIE RIERSTMA



Throwing an ISAC— Glenn Fretwell, John Whitaker, Andy Majorsky, Bob Kitch, RayDean Mount



Men's US Open Finalists — Steve Spencer, Jerry Nevins, Doug Bassett, Ben Struzynski, Dave Patterson



Women and Youth US Open Finalists — Deb Andrews (scorekeeper), Mary Riersma, Marge Takoch, Anita Lukes, Leilani England (Youth), Dawn Wagner, Lori Majorsky, Sue Mercer



Storm clouds rolling in

GEOGRAPHIC DISTRIBUTION OF MEMBERS

by Anita Lukes

As of 10/2/2018, the World Archery Association (WAA) has 267 members (the count is based on an individual membership or a family membership, e.g., a family membership of 4 counts as 1 for purposes of this report). This includes 54 members who have not paid dues for 2018 (many of which were waiting for a functioning PayPal) and 40 new members for this year. I anticipate that many of these members will be using PayPal in the next few months to update their memberships.

Non-US Members (8 Countries, 4 Continents)

Australia	1	Belgium	2	Spain	3
Canada	4	France	7	Switzerland	3
South Africa	1	Germany	2		

US Members (45 states +DC)

Alaska	2	Indiana	10	Montana	3	South Carolina	1
Alabama	1	Iowa	8	Nebraska	2	Tennessee	4
Arkansas	1	Kansas	3	New Hampshire	3	Texas	6
Arizona	3	Kentucky	2	New Jersey	5	Utah	1
California	12	Louisiana	2	New Mexico	4	Virginia	4
Colorado	12	Maryland	4	New York	7	Vermont	4
Connecticut	3	Massachusetts	3	Nevada	7	Washington	7
DC	1	Maine	2	North Carolina	3	Wisconsin	10
Florida	3	Michigan	5	Ohio	13	West Virginia	5
Georgia	1	Minnesota	4	Oklahoma	1	Wyoming	5
Idaho	5	Missouri	20	Oregon	3		
Illinois	6	Mississippi	2	Pennsylvania	15		

The above totals 251. WAA has 16 additional members who have provided e-mail addresses but not postal addresses for a total of 267.

International Standard Accuracy Contest Scores

(ISAC)

2018 ISAC Results for Men (70 and Above)

PLACE		SCORE	NAME		CITY OF RESIDENCE	STATE/ COUNTRY	DATE OF THROW	CONTEST
1		97xxx	Ben	Struzynski	Ogdensburg	WI	7/21/18	Pine River, WI
2		96xx	Douglas	Bassett	Warsaw	NY	9/14/18	Small Game Derby, Letchworth State Park, NY
3		95xx	Ray	Strischek	Athens	OH	9/2/18	Flint Ridge, OH
4		94	Ryan	Grohsmeier	Addison	NY	9/15/18	Small Game Derby, Letchworth State Park, NY
5		94	Doug	Majorsky	El Cajon	CA	9/17/18	Valley of Fire, NV
6		93xxx	Bob	Kitch	Husum	WA	2/11/18	Winter Count, Florence, AZ
7		93xx	Gary	Fogelman	Turbotville	PA	8/26/18	Easter Seaboard-- Letchworth State Park, NY
8		92xx	James	Turner	Spokane	WA	9/14/18	Rabbitstick, Rexburg, ID
9		93	Kevin	Ashley	Estil Springs	TN	6/1/18	Old Stone Fort St Park, Manchester, TN
10		92xx	Christophe	Jamon	Sanssac L'Eglise	FRANCE	4/1/18	Seyssinet, Pariset, FRANCE
11		92	Jack	Rowe	Sayre	PA	6/3/18	Atlatis-n-Action, Elmira, NY
12		91xx	Cyrille	Huc	Seysses	FRANCE	4/22/18	Limousis, FRANCE
13		91	Scott	Van Arsdale	Otego	NY	7/26/18	Green Flats, Hancock, NY
14		90xxx	Steven	Spencer	Trenton	MO	5/11/18	Trenton, MO
15		90x	Nathan	Rorebeck	Trenton	MO	7/20/18	MOJAM, Marchall, MO
16		89xxx	Andy	Majorsky	Derry	PA	7/27/18	Green Flats, Hancock, NY
17		89	Seth	Rorebeck	Trenton	MO	6/15/18	Trenton, MO
18	*	88xx	Sean	Matney	New Franklin	MO	3/24/18	Jakes Day, Hermann, MO
19	*	88xx	Jordan	Ashley	Estil Springs	TN	6/2/18	Old Stone Fort St Park, Manchester, TN
20		88	Mike	Glenn	Lucasville	OH	9/15/18	Paw Paw Festival, Albany, OH
21		87xx	Greg	Maurer	Vergennes	VT	2/17/18	Silver Springs, FL
22	*	87	Lenny	Riersma	Cascade	WI	9/14/18	Nichols Rendezvous, WI
23	*	87	Jim	Fisher	Grand Island	NY	7/28/18	Green Flats, Hancock, NY
24	*	87	Ansgar	Lukas	Munchen	GERMANY	9/16/18	Engen, GERMANY
25	*	87	Neville	Robins	unknown	PR	2/17/18	Winter Count, Florence, AZ
26	*	87	Scott	Sharp	Trenton	MO	4/20/18	Trenton, MO
27	*	87	Randy	Whaley	Leon	OH	8/12/18	Albany Fairgrounds, Albany OH
28	*	86x	Steve	Barnett	Pomeroy	OH	9/16/18	Paw Paw Festival, Albany, OH
29	*	86x	Claude	Castan	Toulouse	FRANCE	9/8/18	Arudy, FRANCE
30		86	Jerome	Galetti	Clamart	FRANCE	5/20/18	Saint Hubert, FRANCE
31	*	85x	Cedric	Schlatter	Schaffhausen	SWITZ	9/16/18	Engen, GERMANY
32	*	85x	Brian	Wagner	Truxton	MO	1/20/18	HorseAround Ranch, Truxton, MO
33	*	85	Ray	Madden	Joplin	MO	3/15/18	Valley of Fire, NV
34	*	85	Marco	Maioli	Angera	ITALY	5/27/18	Domat, SWITZERLAND
35	*	85	Kurt	Mischler	Brugg	SWITZ	9/16/18	Engen, GERMANY
36	*	85	Allan	Turner	Scottsbluff	NE	9/11/18	Rabbitstick, Rexburg, ID
37	*	84x	Jim	Gnapp	Quesnal	BC	6/2/18	Between the Rivers, Chewelah, WA
38	*	84x	Fritz	Mischler	Taufelen	SWITZ	5/27/18	Domat, SWITZERLAND
39	*	84	Christian	Carriere	Montauban	FRANCE	9/9/18	Arudy, FRANCE
40	*	84	Roger	Klindt	Dexter	NY	8/25/18	Easter Seaboard-- Letchworth State Park, NY
41		83xx	Jim	Hughes	Loveland	CO	9/22/18	Trail's End, Cheyenne, WY
42		83x	Joachim	Martz	Engen	GERMANY	9/16/18	Engen, GERMANY
43	*	83	Mark	Bracken	Saegerstown	PA	8/31/18	Flint Ridge, OH
44	^	83	Dave	Patterson	Ashland	MO	9/15/18	Cahokia Mounds, IL
45		82x	John	Whitaker	Grinnell	IA	5/19/18	Osage Knap-In, Boonville, MO
46	*	82	Fabrice	Brutus	Denonville	FRANCE	9/9/18	Samara, FRANCE
47	*	82	Ken	Faucher	Dover	NH	7/28/18	Green Flats, Hancock, NY
48	*	82	Phillippe	Guillonnet	Val d'Amest	FRANCE	7/7/18	Saulges, FRANCE
49	*	82	Johannes	Schoroth	Koln	GERMANY	5/20/18	Saint Hubert, FRANCE
50	*	82	David	Sheppard	Cheyenne	WY	1/27/18	Trail's End, Cheyenne, WY
51	*	82	Gary	Sipila	Hewitt	NJ	7/29/18	Green Flats, Hancock, NY
52	*	80	Gordy	Behrendt	West Bend	WI	8/31/18	Mattoon Rendezvous, WI
53	*	80	Roger	Granneman	Ottumwa	IA	6/1/18	Granneman Field, Ottumwa, IA
54	*	79	John	Aldred	Zanesville	OH	9/15/18	Paw Paw Festival, Albany, OH
55	*	79	Juan-Luis	Navarro Perez	Benahadux	SPAIN	4/21/18	Benahadux, SPAIN
56	*	79	Glenn	Purpura	Moab	UT	2/13/18	Limousis, FRANCE
57		78x	Terry	Ashley	Estil Springs	TN	6/2/18	Old Stone Fort St Park, Manchester, TN
58	*	78	Charles	Bracken	Meadville	PA	2/17/18	Silver Springs, FL
59	*	78	Glenn	Fretwell	Jordan Valley	OR	10/7/18	WAA Annual Meeting, Graham Cave, MO
60	*	78	Rafael	Guirado Garcia	Benahadux	SPAIN	4/21/18	Benahadux, SPAIN

PLACE		SCORE	NAME		CITY OF RESIDENCE	STATE/ COUNTRY	DATE OF THROW	CONTEST
61	*	78	Matthieu	Lacoste	Brasempouy	FRANCE	4/21/18	Limousis, FRANCE
62	*	78	Nick	Mertz	Auxvasse	MO	6/2/18	Graham Cave, MO
63	*	78	Shane	Ryker	Cheyenne	WY	4/22/18	Trail's End, Cheyenne, WY
64	*	78	Wayne	Wells	Cameron	NY	8/25/18	Easter Seaboard-- Letchworth State Park, NY
65		77xx	Flavien	Beauquel	Fagnieres	FRANCE	5/20/18	Saint Hubert, FRANCE
66	*	77x	Frank	Lukes	West Lafayette	IN	7/6/18	Flint Ridge, OH
67	*	77x	Tim	Whaley	Winston-Salem	NC	4/15/18	Kanawha State Forest, Charlestone, WV
68		76xx	Charles	Swanson	Knoxville	TN	6/2/18	Old Stone Fort St Park, Manchester, TN
69	*	76	Luis-Angel	Breton	Logrono	SPAIN	9/8/18	Arudy, FRANCE
70	*	76	Jerry	Nevins	Jefferson City	MO	9/28/18	Bois d'Arc, Hulston Mill, MO
71	*	76	Cass	Springer	Nelsonville	OH	4/14/18	Kanawha State Forest, Charlestone, WV
72	*	75x	Eric	Botte	Druelle	FRANCE	3/31/18	Seyssinet, Pariset, FRANCE
73	*	75x	Don	Roberts	Toronto	OH	9/1/18	Flint Ridge, OH
74	*	74	Jean-Claude	Gamon	unknown	FRANCE	4/15/18	Orgnac l'Aven, FRANCE
75	*	74	Russell	Richard	Cheyenne	WY	9/22/18	Trail's End, Cheyenne, WY
76	*	74	Jehan	Speckens	unknown	FRANCE	4/14/18	Orgnac l'Aven, FRANCE
77	*	73	Alain	Lacoste	Toulouse	FRANCE	6/16/18	St. Cesaire, FRANCE
78	*	73	Shelby	Mitchell	Indianapolis	IN	6/23/18	Athens Library, Athens, OH
79	*	73	Jean-Rene	Wolfsberger	Tavannes	SWITZ	5/27/18	Domat, SWITZERLAND
80	*	73	Lucas	Yates	Ottumwa	IA	6/2/18	Granneman Field, Ottumwa, IA
81	*	72	Mervig	Fiedler	Dortmund	GERMANY	5/20/18	Saint Hubert, FRANCE
82	*	72	Erich	Zeh	Phillipsburg	NY	5/18/18	Rock and Shoot, Milford, NJ
83	*	71	Bob	Berg	Candor	NY	2/24/18	Sopchoppy, FL
84	*	71	Travis	Brenden	Cheyenne	WY	1/27/18	Trail's End, Cheyenne, WY
85	*	70	Richie	Beavers	Sayre	PA	9/7/18	Tioga Shoot-Off, Elmira, NY
86	*	70	Jurgen	Junkmanns	Koln	GERMANY	9/9/18	Samara, FRANCE
87	*	70	Novie	Rorebeck	Trenton	MO	6/16/18	Trenton, MO
88	*	70	Joe	Struzynski	Ogdensburg	WI	7/6/18	Ogdensburg Summer Rendezvous, WI
89	*	70	Kevin	Verhulst	Ottumwa	IA	6/3/18	Granneman Field, Ottumwa, IA

2018 ISAC Results for Women (50 and Above)

PLACE		SCORE	NAME		CITY OF RESIDENCE	STATE/ COUNTRY	DATE OF THROW	CONTEST
1		81	Lori	Majorsky	Derry	PA	8/25/18	Easter Seaboard-- Letchworth State Park, NY
2		80	JoAnne	Fogelman	Turbotville	PA	7/29/18	Green Flats, Hancock, NY
3		79x	Fanny	Jamon	Sanssac L'Eglise	FRANCE	4/15/18	Orgnac l'Aven, FRANCE
4		78x	Ursula	Rass	Nidau	SWITZ	5/27/18	Domat, SWITZERLAND
5		78	Sue	Mercer	Attica	NY	9/15/18	Small Game Derby, Letchworth State Park, NY
6		76	Anita	Lukes	West Lafayette	IN	7/7/18	Flint Ridge, OH
7	*	74	Heather	Phillips	North Powder	OR	9/15/18	Rabbitstick, Rexburg, ID
8	*	74	Melissa	Dildine	Sayre	PA	9/9/18	Tioga Shoot-Off, Elmira, NY
9		72x	Dawn	Wagner	Truxton	MO	10/7/18	WAA Annual Meeting, Graham Cave, MO
10	*	70	Lucie	Jamon	Sanssac L'Eglise	FRANCE	4/14/18	Orgnac l'Aven, FRANCE
11	*	70	Nisa	Holbrook	Charleston	WV	4/15/18	Kanawha State Forest, Charlestone, WV
12		69x	Gizzy	Rowe	Sayre	PA	4/22/18	Earth Day, Elmira, NY
13		68	Maren	Petersen	Erfstadt	GERMANY	9/16/18	Engen, GERMANY
14		64x	Regina	Dodson	Cheyenne	WY	5/26/18	Trail's End, Cheyenne, WY
15		63x	Kandis	Larson	Colbert	WA	5/30/18	Between the Rivers, Chewelah, WA
16		61	Margie	Takoch	Wintersville	OH	7/21/18	Indianapolis, IN
17		60	Conny	Heinzelmann	Schaffshausen	SWITZ	9/16/18	Engen, GERMANY
18		59	Barbara	Spencer	Trenton	MO	4/20/18	Trenton, MO
19		58x	Debbie	Andrews	Albany	OH	5/19/18	Leo Petroglyphs, OH
20		58	Vanessa	Schlatter	Schaffshausen	SWITZ	9/16/18	Engen, GERMANY
21		56	Kerry	Opel	York	PA	7/6/18	Flint Ridge, OH
22	*	55	Amandine	Devie	Fagnieres	FRANCE	5/20/18	Saint Hubert, FRANCE
23	*	55	Priscilla	Lacoste	Toulouse	FRANCE	4/15/18	Orgnac l'Aven, FRANCE

PLACE		SCORE	NAME		CITY OF RESIDENCE	STATE/COUNTRY	DATE OF THROW	CONTEST
24		54	Cheri	Hughes	Loveland	CO	2/13/18	Winter Count, Florence, AZ
25		52x	Karen	Storks	Rheine	GERMANY	9/16/18	Engen, GERMANY
26	*	51	Mariah	Sheppard	Cheyenne	WY	1/28/18	Trail's End, Cheyenne, WY
27	*	51	Dayna	Turner	Durango	CO	2/13/18	Winter Count, Florence, AZ

2018 ISAC Results for Youth (40 and Above)

PLACE		SCORE	NAME		CITY OF RESIDENCE	STATE/COUNTRY	DATE OF THROW	CONTEST	AGE
1		96x	Marlin	Bassett	Warsaw	NY	7/28/18	Green Flats, Hancock, NY	15
2		88x	Carter	Ashley	Estil Springs	CO	6/1/18	Old Stone Fort St Park, Manchester, TN	15
3		82	Silas	Springer	Nelsonville	OH	6/2/18	Athens Library, Athens, OH	15
4		78	George	Reed	Murphy	ID	9/2/18	Jordan Valley, OR	14
5		73	Caleb	Gates IV	Durango	CO	2/16/18	Winter Count, Florence, AZ	15
6		70	Leilani	England	St. Louis	MO	10/6/18	WAA Annual Meeting, Graham Cave, MO	14
7		68	Quay	Fogelman	Goose Creek	SC	6/22/18	Terry Keefer Memorial, Bald Eagle, PA	15
8	*	59	Hannah	Ariel	Winchester	TN	6/2/18	Old Stone Fort St Park, Manchester, TN	15
9	*	59	Dylan	McCaw	Durango	CO	5/24/18	Durango, CO	12
10		58	Ruben	Cuevas Pozo	Benahadux	SPAIN	4/21/18	Benahadux, SPAIN	13
11		53	Noah	Zost	Hart	MI	9/1/18	Flint Ridge, OH	10
12		51	Clement	Huc	unknown	FRANCE	4/15/18	Orgnac l'Aven, FRANCE	11
13		49	Johanna	Martz	Engen	GERMANY	9/16/18	Engen, GERMANY	15
14		43	Ryleigh	Phillips	North Powder	OR	9/14/18	Rabbitstick, Rexburg, ID	11
15		41	Helena	Martz	Engen	GERMANY	9/16/18	Engen, GERMANY	13
16		40	Garrett	Jackson	Wellsville	KS	5/19/18	Osage Knap-in , Booneville, MO	15

* Denotes that tie breaking rules were applied for placement

US Open Atlatl Championships

Graham Cave St. Pk. – Montgomery City, MO – 4-6 Oct 2018

by Douglas Bassett

The US Open Atlatl Championships is conducted under the same rules as the ISAC but the target is the standard 122cm long range colored archery target. The other difference is that the youth shoot at 10M and 15M. The idea is that the competition would move around the country to be conducted at one of the larger event venues and for now it coincides with the annual meeting of the World Atlatl Association. A small entrance fee is gathered to cover the cost of trophies and targets. So thinking ahead, plan for Letchworth State Park – 22-24 Aug, 2019.

This year, the top five qualifying scores from Thursday thru Saturday met for a sudden death throw-off on Saturday afternoon with trophies being awarded to the top three in each division. Twenty-eight people (19 men, 6 women & 3 youth) from 9 states made 63 entries on 13 flights; the final results (each individual's qualifying score and home state in parentheses) are below. The record for each division is also noted from The New York Atlatl Association's inaugural year of statistics for this event which began in 2010.

Youth record is **85X** **Marlin Bassett** (age 10) **Jim's Pro Shop – Shortsville, NY** **1 Mar 14**

1	Leilani England (72, age 14, MO)	72	
2	Liam England (6, age 6, MO)	6	Only three Youth, so their contest was the finals
3	Elizabeth Sall (5, age 10, MO)	5	

Women record is **75** **Bonnie Sortore** **Small Game Derby - Letchworth S P, NY 16 Sept 12**

1	Lori Majorsky (37, PA)	59	
2	Anita Lukes (47, IN)	53	(2 nd & 3 rd were decided by a throw-off)
3	Dawn Wagner (45, MO)	53	
4	Sue Mercer (42, OH)	41	
5	Mary Riemersma (40, WI)	27	

Men record is **93-2X** **Douglas Bassett** **Spearfishing - Letchworth S P, NY** **25 May 14**

1	Ben Struzynski (78-X, WI)	80	
2	Steve Spencer (75, MO)	72	
3	Douglas Bassett (82, NY)	64	
4	Dave Patterson (73, MO)	48	
5	Jerry Nevins (61, MO)	33	(Ray Madden (67, MO) qualified, but had to leave)

Frank Lukes

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The WORLD ATLATL ASSOCIATION, Inc.

TIME TO RENEW MEMBERSHIP FOR 2019

Fill out and mail the application below for a membership that runs from January 1 through December 31.

or

Pay your membership dues online by going to www.worldatlatl.org and purchase your membership in the STORE using PayPal. Memberships paid with PayPal run 12 months from date of purchase.

Members are officially scored and eligible for ISAC competition awards, and receive our quarterly newsletter.

Have a good and safe winter and may your best throws be in 2019!

Anita Lukes, Treasurer



THE WORLD ATLATL ASSOCIATION, Inc Membership Application Form

Yearly Dues \$15 US/Euros or equivalent (Individual or family)

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Organization or Business \$15 _____ Supporting \$30 _____ Contributing \$60 _____

FAMILY MEMBERSHIPS: Please list name, age, e-mail, phone if different from above on another sheet of paper and send with this application.

Make check payable to **The World Atlatl Association** and mail this form to the WAA Treasurer:

Anita Lukes, 3809 Broadview Rd, West Lafayette, IN 47906, USA