



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

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An Introduction to Ancient Darts from the Yukon

By Ryan Grohsmeyer, BS and PhD in Material Science and Engineering

One summer day about 4580 years ago a group of hunters hiked up a mountain in what is now the Yukon Territory in modern-day Canada, not far from where the town of Whitehorse would later be built. Their destination was a perennial blanket of ice that had capped the mountaintop since before their tribal memory began. Winters in this part of the continent were cold, but during summer months dense herds of caribou and some Dall sheep took refuge on the cool, windy mountaintop ice patches away from mosquitos and the warmer valley weather.

The hunters carried atlatls and wooden darts made from willow and birch, and arrived at the mountaintop at stone hunting blinds that their parents and grandparents may have used. The sunlight was bright on the ice and the herds of dark brown caribou could be seen miles away on the ice patches of nearby mountain tops, their manure leaving dark stains on the ice where they walked. The ice offered the caribou little cover, and the leverage of their atlatls allowed the hunters to target unsuspecting animals who came too close to the humans hiding among the rocks and snow.

We don't know if the hunters were successful

that day in killing a caribou, but we do know that at least one hunter came back with one less dart, having missed a lucky caribou with an inaccurate throw and lost the dart in the snowy ice. It must have been really frustrating: the dart had taken hours to carve to the proper taper using stone scrapers from two staves split from a straight birch tree trunk. But it must have been an accepted risk of hunting in the ice patches. That dart lay buried in the ice for a very long time, preserved from rot but stepped on and broken by caribou and sheep in the following four thousand years, until the caribou no longer climbed to the mountaintops.

About 4580 years after that summer day, archeologists flying over the mountains in a helicopter noticed what looked like a twisted branch on the rocks far above the tree line near the edge of the shrinking ice patch, but the remains of three split feathers tied on one end with sinew told them that it was definitely not a branch. Caribou have not been seen on the mountaintops in over a century, so when modern hikers a few years earlier smelled caribou dung and found that it was melting out from inside the ice patches, it aroused suspicion and then shock

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when carbon dating showed that the dung was several thousand years old.

For the past two decades, provincial archeologist Greg Hare and his team based in Whitehorse, along with numerous community volunteers (including First Nations descendants of the ancient hunters), have been scanning the rocks at the edges of ice patches from helicopters and on foot. The mountaintop ice patches are melting more now than they have in the past 8,000 years, exposing millennia worth of frozen artifacts to attentive archeologists, but also to the sun, wind, and bacteria that could destroy them within a month or two. The artifacts include nearly a hundred fragments of atlatl darts ranging in age from ~8400 to ~1200 years old, points made of stone and caribou antler, foreshafts made of caribou antler and wood, arrows, a moccasins, a stone blade core, fragments of a bow, carved pieces of antler tine, an 18th century musket ball, and nearly two thousand animal remains from about two dozen species. To find photographs and a much more detailed summary of the amazingly-preserved finds, anyone interested should read the articles published by Greg Hare and his colleagues, which can be found by typing the citations below into a Google Scholar search field (www.scholar.google.com) and clicking on the link [\[PDF\] ucalgary.ca](#) to the right of the article title.

P. Gregory Hare, Christian D. Thomas, Timothy N. Topper, and Ruth M. Gotthardt, "The Archaeology of Yukon Ice Patches: new Artifacts, Observations, and Insights," *Arctic*, Vol. 65, suppl. 1, (2012) P. 118-135.

P. Gregory Hare, Sheila Greer, Ruth Gotthardt, Richard Farnell, Vandy Bowyer, Charles Schweger, and Diane Strand, "Ethnographic and Archaeological Investigations of Alpine Ice Patches in Southwest Yukon, Canada," *Arctic*,

Vol. 57, No. 3, (Sept. 2004) P. 260-272.

The information in this article has been taken from these two articles and personal communication with Greg Hare. After reading the articles I contacted Greg and asked for more pictures and measurements of the darts' diameters. He responded with diameter measurements taken with calipers every 10 cm (~3.94 in) along the length of four of the most complete darts, and measurements of proximal and distal diameters of five others. All measurements were given to me in metric and I've included the approximate inch equivalents to some of the measurements below. I plan to include all these measurements in a future article in the *Atlatl* that discusses dart taper.

Over 200 artifacts have been carbon dated and show that atlatl and dart technology continued from at least ~8360 years before present (YBP) until it was quickly replaced by bow and arrow technology ~1200 YBP in that area. The atlatl darts and fragments are in excellent states of preservation, some found as complete, unbroken dart shafts over 180 cm (6 ft) long, some warped, twisted, or split by water and time that probably helped to reverse careful straightening by the maker, some broken into multiple pieces by hooves of would-be prey but still found together, some foreshafts with no main shaft and some odd broken shaft fragments found alone. In some cases feathers or fragments were still tied on with sinew, and stone points still hafted to the shafts with pitch and sinew. One of the many things that makes these artifacts so important to the archeological record and to the atlatl community is that, due to the circumstances in which they were lost and found, these darts were almost certainly very practical hunting weapons made by people who intended to use them to kill dinner. They were not specially made only to be burial goods, religious ritual items, or weapons of war. The



Fig. 1. Five ancient ice patch darts. From left to right: 220 cm willow sapling dart ~4460 YBP (JdVb-2:9, missing nock near camera), 184 cm spruce sapling dart ~3220 YBP (JbVa-2:1, nock near camera), unknown, unknown, segmented birch stave dart ~4580 YBP (JcUu-2:1, missing point toward camera). Note sinew wrapping and scarf joint indicated by red arrow on segmented birch dart. Photo: Andy Gregg.

fact that some of the darts were found with caribou hair wedged in between the stone point and the wood of the hafting slot shows that some of these darts almost certainly killed caribou and were used multiple times by their owners. These darts are an amazingly fortunate case of preservation that offers us one of the best windows into North American lithic dart technology outside of the Basketmaker culture in the US southwest. So far, however, no preserved atlatls have been found that would have been used to throw these Yukon darts, which is not too surprising but is better for the ancient hunters than for us.

One of the most interesting aspects about this sample of darts is the variety of sizes, shapes, designs, and weights of darts and points made by people in the same area over thousands of years, presumably to hunt the same or similar types of prey using the same or similar hunting methods on the mountaintop ice patches. The darts include primarily "female" darts designed to work with an atlatl with a spur of some kind, and at least one "male" dart designed to work with an atlatl with a socket. Darts display multiple styles of fletching and fletching attachment methods, notched and un-notched stone points and perhaps barbed antler points. Some darts appear to have had antler foreshafts that held a stone point hafted into a slot in the antler. Based on a few replicas, dart weights may have ranged from ~100 g (3.5 oz) to ~250 g (9 oz). Recovered

darts are made of three different wood species: birch, willow, and spruce, and were made in specific ways. All of the birch darts were carved into shape from staves that had been split from tree trunks several inches in diameter. All of the willow darts were made from willow saplings, many of which were carved to varying degrees to adjust the thickness and taper, and one of which was made from a sapling without altering it except for removing the bark, notching the distal end for a stone point, and attaching feathers with sinew binding. The single spruce dart that has been found (dated to 3220 ± 60 YBP, ID number JbVa-2:1 in Greg's article) was made from a single-piece sapling and was complete, with a socket at the proximal end and a carved slot into which a stone point would have been directly hafted, overall about 184 cm (72.4 in) long.

Acknowledgements:

Many thanks to Greg Hare for taking the time to relay the above information to me, measure the darts so carefully and answer lots of questions. Many thanks to the rest of the archeology team in Whitehorse for working to find and preserve these artifacts, and also to Andy Gregg of 90th Parallel Productions Inc. for taking the pictures of the darts shown in the figures.

Part 2 of this article will appear in the July 2017 Edition of the Newsletter

Demos at Indiana University of Pennsylvania

Margie and Frank Takoch, as well as Lori and Andy Majorsky provided atlatl /dart instruction for Archeology Day, October 18, at IU (no Hoosiers, not your IU) of Pennsylvania (IUP). From 10:30 to 4 pm, our members were busy as 3-4 students at a time throw darts at an ISAC target.

It is true that the archeology students were required to attend, but it was also Homecoming Day so lots of students

were out and about the campus and stopped by to try throwing. Margie commented that everyone who tried it seemed to love it. Additionally, Genevieve Everett of the Anthropology department reported during the demos that she was getting feedback from the students that they loved "the atlatl demo". With all of this interest, maybe the Crimson Hawks of IUP will form an atlatl team! We hope so.



Lori supervising a group throw at the ISAC target.



Frank helping one of the students with the finer points of technique. Is Frank standing in a hole?



More IUP Crimson Hawks with darts and atlatls.

Wintercount Meet 2017

By Bob Sizemore

Wintercount continues to be a great place to throw spears with eight ISAC's in a row, with the likes of Douglas Bassett, Sue Mercer, Bob Kitch, Jim Knapp, James Turner and Neville Robins and a host of young and upcoming youngsters.

The weather was, what the weather is in the Southwest desert in the wintertime; in a word, outstanding, except for Friday, which produced dusty, gusty conditions.

For the last day of the event we completed the ISAC's just before the rain. The field round for atlatl and archery was very well

attended with 41 atlatl's and 39 archers. 18 contestants did both. 89 People signed in for range activities. 37 participated in ISAC's with 39 flights. A distance throw for atlatl yielded a 542 foot throw by Douglas Bassett.

It's interesting to observe both technologies on a course where everything is the same; same targets, distance and scoring. Many archers were using self-made bows and their performance was impressive. So bring your atlatl's and bows to Wintercount next year. You will have a lot of fun.



Bob Sizemore throwing in Field Round



Contestants hit deer target from a great distance



Tom Wax throws at deer target

WAA Annual Meeting

The 30th Annual Meeting of the World Atlatl Association will be held at the residence of Bob and Gayle Kitch, 45 Fordyce Rd., Husum WA 98631 (Google may list White Salmon as the town) August 3rd to 6th, 2017.

Directions to Event: SEE MAP AND DIRECTIONS ON COVER PAGE OF NEWSLETTER

Schedule of Contests:

Thursday: Registration starting at 10:00 am. Range will be open all day for ISAC and also for qualify for U.S. Open championship. The top 5 scorers in each division (from qualifiers held on Thursday, Friday and Saturday) will be in the US Open finals Saturday afternoon.

Friday: We will travel to Celilo Bowman Archer Range (25 miles) at the Dalles, Oregon for a field round of 20 3-D targets (**field points only**) (40 throws). Prizes will be awarded for each division after dinner on Saturday. ISAC will also be available here. Executive Board Meeting will be held.

Saturday: ISAC all day. Final throws for US Open Championship end in early afternoon. Dinner will be served at 5:00 pm (Please confirm your reservation by phone - 541-806-4771 or 541-806-1971 - no later than July 21, 2017 so we can prepare accordingly. No confirmation no meal). After dinner The World Atlatl Association annual meeting will be held. Prizes from 3D throw will be awarded and a guest speaker will give a presentation.

Sunday: ISACs until 3:00 pm.

Primitive camping is available on site. Water and Port-A-Potties will be provided, but no showers.

There are several motels and B&Bs in the area (Husum, Trout Lake, White Salmon, Lyle in Washington, also Hood River and The Dalles in Oregon). There is also a RV park in Bingen (8 miles). You need to book early as our area is a very popular vacation area.

A list of museums and points of interest will be provided at registration along with directions to 3D shoot. Hope you can join us.

Questions or information: Bob 541-806-4771 Gayle 541-806-1971

North American Event Calendar for 2017

Apr. 15	Event held at Fraternal Order of Police, 83 FOP Lane, Charleston, West Virginia 25313. From 10am to 4pm - ISAC, WV and WV Deer Target contests will be held. Free instruction to the public. Please call Randy Whaley at (304) 812-0599 or e-mail nisaholbrook@aim.com for additional information. This will be held in conjunction with the Kanawha Valley 2nd Annual Knap-In.
Apr. 15-16	Blooming Blanket atlatl throw & ISAC. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard coyoteclownd@aol.com (307-772-0550) for location and time.
Apr.21-23	Mountain Man Rendezvous in Charleston, Missouri , in the Gordon Galemore Park on east Cypress St. Friday evening (after 5:00), all day Saturday, and Sunday morning (before noon). Anybody needing more information call David Lohr at 417-280-6304 or email koshtrader@hotmail.com .
Apr. 27	3:30 PM ISAC at Columbine Christian School 1775 Florida Rd, Durango, Colorado . ISAC only. Contact James Turner (970) 946-2096 el_lobo_solo@hotmail.com
Apr. 28-30	Mountain Man Rendezvous in Bloomfield, Missouri , at the city park on Crowleys Ridge Dr. Friday evening (after 5:00), all day Saturday, and Sunday morning (before noon). Anybody needing more information call David Lohr at 417-280-6304 or email koshtrader@hotmail.com .
Apr. 29	Annual Raging Cow Atlatl Event at Grinnell College, (Grinnell, Iowa) Saturday April 29, 2017. All comers welcome. ISAC and other events including our terrifying Raging Cow and the Megafauna Massacre on Saturday; ISACs Friday evening and Sunday morning possible. Contact John Whittaker whittake@grinnell.edu Pat Hashman pathashman@gmail.com
May 5-7	Pomme De Terre Mountain Man Rendezvous in at the lake outlet Park (near Hermitage, Missouri .) Friday evening (after 5:00), all day Saturday, and Sunday morning (before noon). Anybody needing more information call David Lohr at 417-280-6304 or email koshtrader@hotmail.com .
May 5-7	Texas Atlatl Rendezvous. Cypress Mill, Texas More info: https://www.meetup.com/ATLATL
May 11	3:30 PM ISAC at Columbine Christian School 1775 Florida Rd, Durango, Colorado . ISAC only. Contact James Turner (970) 946-2096 el_lobo_solo@hotmail.com
May 14	10th Annual Texas Atlatl Championship Tournament In Austin, Texas at Austin Archery Club Thirty 3-D targets in the Hill Country! Target-tips only! Cost: \$12. More info: https://www.meetup.com/ATLATL
May 19 - 21	Hoka Hey Farm in Leon, West Virginia . Contests include ISAC, WV and WV Deer Target, Atlatl "golf" course. Please call Randy Whaley at (304) 812-0599 or e-mail nisaholbrook@aim.com for additional information.
May 19- 21	ISAC's and other throws at the Osage Knap-in near Boonville, Missouri . ISAC's will start Friday afternoon, all day Saturday and final ISAC's Sunday Morning. Come throw some darts and check out some of the best flintknappers around, along with lots of knapping tools and some high quality stone. Free primitive camping. Some full hookups are available for a small fee. Clean restrooms and showers on site. Just off I-70 east of Boonville, Missouri. For more info and/or directions contact: Jerry Nevins @ 573-353-5313 or wdfd@aol.com
May 20	Fremont Indian State Park and Museum, 3820 Clear Creek Canyon Rd, Sevier, Utah 84766 Test your Atlatl throwing skills on a course set alongside the location of a Fremont Indian Village. After competing in the ISAC sanctioned accuracy event, enjoy a mile-long back country atlatl experience as you "hunt" our 3D animal targets. Other activities available this weekend are our annual mountain man rendezvous, a 5k run, and a visit to our museum. Tent and RV camping is available. Saturday, May 20 from 9:00 am to 1:00pm, Awards at 2:00 pm Contact: Amy Ramsland, Museum Curator amyramsland@utah.gov Museum Phone: (435) 527-4631
May 20	Rendezvous at the Rock – Leo Petroglyph, Ray, Ohio . (US Rt. 32 to Co. Rd. 28, left in Leo on Twp Rd. 224). Exhibits and entertainment. OAA will provide instruction and conduct atlatl accuracy contests. ISAC and Ohio locals. 11:00 – 4:00. Contact Ray Strischek for more information, (ohioatlatl@hotmail.com) 740-331-4351.
May 20-21	Green Blanket atlatl throw & ISAC. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard coyoteclownd@aol.com (307-772-0550) for location and time.
May 25	3:30 PM ISAC at Columbine Christian School 1775 Florida Rd, Durango, Colorado . ISAC only. Contact James Turner (970) 946-2096 el_lobo_solo@hotmail.com
May 28 - June 2	Between the Rivers Gathering, Chewelah, Washington . ISAC each day. Contact Bob Kitch 541-806-4771 or Patrick Farnaman Patrickf@BridgestothePast.org

June 2-4	World Atlatl weekend June 2nd, 3rd. and 4th. Granneman's 19505 87th. st., Ottumwa, Iowa . Isac Fri.5:00 to 7:00pm. Saturday Isac, state completion, and 3d throws. 9:00am to 5:00pm. Lunch provided, bring own beverages. Sunday Isac 9:00 am. Primitive camping on site with restrooms. Mary 6417998600- Roger 6417991219 mrgranneman@pcsia.net Come and throw!
June 3	Athens Public Library, Home Street, Athens, Ohio . OAA will host atlatl accuracy contests – Ohio locals, ISAC, World Atlatl Day team contests. 9:00 am – 4:00pm. Contact Ray Striscek for more information, (ohioatlatl@hotmail.com) 740-331-4351
June 3	World Atlatl Day at historic Graham Cave State Park near Danville, Missouri . The Missouri Atlatl Association will be demonstrating & teaching the use of the Atlatl to the public from 10am-2pm. ISAC, World Atlatl Day Team Competition, Moche Toss and other games after 2pm. For more info, contact Jerry Nevins @ 573-353-5313, wdhd@aol.com or: Graham Cave State Park: 573-564-3476, https://mostateparks.com/park/graham-cave-state-park
June 3	World Atlatl Day Competition and ISAC. Glen Oechsner's 1167 Minnie lane Campbellsport, Wisconsin . ~Contact: Glen Oechsner (920) 533-5039
June 3	World ATLATL Day In Austin, Texas at Austin Archery Club More info: https://www.meetup.com/ATLATL/
June 3-4	World Atlatl Day and Fat Blanket atlatl throw & ISAC. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard coyotecdown@aol.com (307-772-0550) for location and time.
June 11	Blowgun Tournament In Austin, Texas at Austin Archery Club In conjunction with regularly scheduled archery and atlatl tournament. Thirty 3-D targets in the Hill Country! Cost: \$12. More info: https://www.meetup.com/ATLATL/
June 16-18	Meadowcroft Atlatl Competition. Avella, Pennsylvania ISACs and local contests every day. Potluck dinner Saturday evening, meat provided, bring a side dish to share. Primitive camping on site. Contact Margie margieandfrank@hotmail.com or 740.264.1755
June 24	Athens Public Library, Home Street, Athens, Ohio . Atlatl Educational Day Camp. OAA will provide instruction and conduct atlatl accuracy contests. ISAC and Ohio locals. 9:00-5:00. Contact Ray Striscek for more information. ohioatlatl@hotmail.com , 740-331-4351.
July 2-4	18 th Annual Foothill-Mountain Atlatl and Bow Open. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard coyotecdown@aol.com (307-772-0550) for location and time.
July 7-9	Flint Ridge State Park, Brownsville, Ohio . OAA will provide instruction and conduct atlatl accuracy contests. ISAC and Ohio locals. Friday afternoon to Sunday afternoon. Contact Ray Striscek for more information, (ohioatlatl@hotmail.com) 740-331-4351.
July 9	Archery & Atlatl Tournament Every second Sunday January through September in Austin, Texas at Austin Archery Club Thirty 3-D targets in the Hill Country! Target-tips only! Cost: \$12. More info: http://austinarcheryclub.com/
July 21-22	ISAC's and other throws including the Moche Toss and two 3-D courses at the MOJAM Self Bow Jamboree, in Marshall, Missouri . ISAC's will begin after noon on Friday the 21st. and begin mid-morning Saturday the 22nd. Bring your primitive bows and arrows, field points only. For more info, contact: Jerry Nevins @ 573-353-5313 or wdhd@aol.com http://www.marshallbowhunters.org https://www.facebook.com/marshallbow
Aug. 3-6	30th Annual Meeting of the World Atlatl Association This year's meeting and throw will be held in Husum, Washington , at the home of Bob and Gayle Kitch (45 Fordyce Rd. - about 65 miles east of Portland, OR). Located in the heart of the Columbia River Gorge National Scenic Area, there are numerous museums and points of interest, so you may want to come early and/or stay late. More information will follow in the next newsletter. If you have questions feel free to contact Bob 541-806-4771 or Gayle 541-806-1971. We're computer free, so you'll talk to us in person. — SEE ARTICLE ON PAGE 4 FOR SCHEDULE AND MORE INFORMATION. DIRECTIONS TO MEET SITE ON THE COVER PAGE OF NEWSLETTER.
Aug. 11	That Dam ISAC - ISAC and Ohio Local Contests at Steve Barnett's house near Albany, Ohio 5:00 pm - dark (or thereabouts). Contact Ray Striscek (ohioatlatl@hotmail.com) 740-331-4351 or Steve Barnett (barnz@juno.com) 740-698-6553 more information.
Aug 12-13	Albany Fairgrounds, Albany, Ohio OAA will provide instruction and conduct atlatl accuracy contests. ISAC, and Ohio locals. Saturday morning to Sunday afternoon. Contact Ray Striscek for more information, (ohioatlatl@hotmail.com) 740-331-4351 or Steve Barnett (barnz@juno.com) 740-698-6553.
Aug 12-13	Hot Blanket atlatl throw & ISAC. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard coyotecdown@aol.com (307-772-0550) for location and time.

Aug. 13	Archery & Atlatl Tournament Every second Sunday January through September in Austin, Texas at Austin Archery Club Thirty 3-D targets in the Hill Country! Target-tips only! Cost: \$12. More info: http://austinarcheryclub.com/
Sept. 1-3	Flint Ridge State Park, Brownsville, Ohio Flint Ridge Lithic Society Knap-In. - OAA will provide instruction and conduct atlatl accuracy contests. ISAC, and Ohio locals. Lots of booths, flintknapping, crafts, etc. Friday afternoon through Sunday afternoon. Contact Ray Strischek for more information, (ohioatlatl@hotmail.com) 740-331-4351 or Steve Barnett (barnz@juno.com) 740-698-6553.
Sept. 2	Atlatl ISAC event, Antique Firearms and Indian Artifact Show, Saturday Sep. 2nd, 9:00 am - 4:00 pm. 2017 Jefferson County Fairgrounds, Brookville, Pennsylvania . Rt. 28 -- 1/4 mile north of PA Interstate 80, exit 81. Free competition, atlatl and darts provided. Artifact Identification, Flint Knappers welcome. Contact George Miller gmmiller@brockwaytv.com for more information.
Sept. 9	Wyoming Archaeology Awareness celebration & ISAC. Laramie, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard covotecdown@aol.com (307-772-0550) for location and time.
Sept. 9	Archaeology Day at Historic Graham Cave State Park near Danville, Missouri . The Missouri Atlatl Association will teach and demonstrate from 10:30 am until 2:30 pm. Equipment available for public use. There will also be demonstrations of using the bowdrill for friction fire and making cordage on site. ISAC's will begin at around 2:30pm. For more info and/or directions contact: Jerry Nevins @ 573-353-5313; wdhd@aol.com or: Graham Cave State Park: 573-564-3476 https://mostateparks.com/park/graham-cave-state-park
Sept. 10	Archery & Atlatl Tournament Every second Sunday January through September in Austin, Texas at Austin Archery Club Thirty 3-D targets in the Hill Country! Target-tips only! Cost: \$12. More info: http://austinarcheryclub.com/
Sept.15-17	PawPaw Festival, Lake Snowden, Rt.32, Albny, Ohio Eighteenth annual PawPaw festival. OAA will provide instruction and conduct atlatl accuracy contests. ISAC, and Ohio locals. Lots of booths, crafts, pawpaw food and information. Friday evening (4:00) for atlatl, through Sunday afternoon. Admission fee per car. No pets allowed. Contact Ray Strischek for more information, (ohioatlatl@hotmail.com) 740-331-4351 or Steve Barnett (barnz@juno.com) 740-698-6553.
Sept.15-17	Cahokia Mounds World Heritage Site, Collinsville, Illinois . ISAC on Friday afternoon; European Round, ISAC, and fun throws including the Moche Toss on Saturday; final ISAC Sunday AM. Saturday evening, starting around 5:00 PM: pizza, awards, and a speaker in the Visitors Center. Registration: free for MAA members with paid-up dues/\$5.00 per person for non-members; pizza for Saturday will be \$5.00 per person. For more info and/or directions contact: Jerry Nevins @ 573-353-5313, or: wdhd@aol.com
Sept 16-17	Cool Blanket atlatl throw & ISAC. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard covotecdown@aol.com (307-772-0550) for location and time.
Sept. 29 - Oct. 1	Hoka Hey Farm in Leon, West Virginia . Contests include ISAC, WV and WV Deer Target, Atlatl "golf" course and extreme obstacle course. Please call Randy Whaley at (304) 812-0599 or e-mail nisaholbrook@aim.com for additional information.
Oct. 6-8	Iron Horse Rendezvous in Poplar Bluff, Missouri , in the Wiseman Park on South 2nd St. Friday evening (after 5:00), all day Saturday, and Sunday morning (before noon). Anybody needing more information call David Lohr at 417-280-6304 or email koshtrader@hotmail.com .
Oct. 6-8	Indian Mounds Festival, across the street from The Plains Elementary School, Connett Rd., The Plains, Ohio . OAA will provide instruction and conduct atlatl accuracy contests. ISAC and Ohio locals. Friday afternoon to Sunday afternoon. Contact Ray Strischek (ohioatlatl@hotmail.com) 740-331-4351, or Steve Barnett (barnz@juno.com) 740-698-6553 for more information.
Oct 7-8	Candor Fall Festival, Saturday, October 7, & Sunday, October 8, Side Hill Acres Goat Farm, Route 96, Candor, New York 13743, Local atlatl contests all day on Saturday, from 10 a.m. to 4 p.m. ISAC on Saturday, Oct. 7, during day and Sunday, Oct. 8, at 11 a.m. For further information contact Bob and Cheryl Berg at contact@thunderbirdatlatl.com or 607-659-3854.
Oct.7-8	Falling Blanket atlatl throw & ISAC. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard covotecdown@aol.com (307-772-0550) for location and time.
Oct. 27-28	Zaleski State Forest, Lake Hope State Park, Zaleski, OH . Ohio ROAR Days - OAA will provide instruction and conduct atlatl accuracy contests. ISAC and Ohio locals. Friday evening (4:00) for atlatl, all day Saturday. Camping available. Contact Ray Strischek for more information, (ohioatlatl@hotmail.com) 740-331-4351 or Steve Barnett (barnz@juno.com) 740-698-6553.
Nov 4-5	Frosty Blanket atlatl throw & ISAC. Cheyenne, Wyoming . Open to all, equipment and instruction cheerfully provided. Sponsored by the Wyoming Atlatl and Social Club. Contact: Russell Richard covotecdown@aol.com (307-772-0550) for location and time.
Nov 25-26	Desperate Man throw. Cheyenne, Wyoming . Contact: Russell Richard covotecdown@aol.com (307-772-0550) for location and time.

European Event Calendar for 2017

date	site	pays	ISAC	E-mail
22-23 avril	Benahadux	Espana	Sunday	manolosalasbaron@gmail.com vane.lores.vl@gmail.com
22-23 avril	Ramioul	Belgique	Sunday	christian.lepers@yahoo.fr
29-30 avril	Crepy-en-Valois	France		musee@crepyenvalois.fr
29-30 avril	Tautavel	France	Saturday Sunday	conservateur@tautavel.com conservateur@45000ans.com
20-21 mai	Gorafe	Espana		turismocimgorafe@gmail.com
27-28 mai	Aranjuez	Espana		arquerosriberenos@gmail.com
03-04 juin	Rio Vero	Espana		mjuste@somontano.org
03-04 juin	St Hubert Val de Poix	Belgique	Sunday	info@WhiteBuffalo.be ; aurelia.ratinckx@gmail.com
10-11 juin	Carnac	France		philippe.guillonnet@hotmail.fr
10-11 juin	Zegama	Espana		jeuxtapia@yahoo.es ; itapia@aranzadi.eus
17-18 juin	Paleosite de St-Césaire	France	Saturday Sunday	p.colombet@paleosite.fr
24*-25 juin	Parque Cultural del Río Martín	Espana		eva@birrus.com
01-02 juillet	La Chaise le Vicomte	France	Saturday	arcbillebaude@aol.com
08-09 juillet	Canyon de Saulges (Thorigne-en-Charnie)	France		philippe.guillonnet@hotmail.fr
15-16 juillet	Errentaria	Espana		jdzumalabe@gmail.com
29-30 juillet	Santa Maria Maggiore	Italia	Sunday	bran1066@gmail.com ; christian.foppa@hispeed.ch
05-06 août	La chapelle aux Saints	France	Saturday Sunday	casap@neandertal-musee.org rose.mons@neandertal-musee.org
05-06 août	Boario Terme	Italia	Sunday	christian.foppa@hispeed.ch
02-03 septembre	Gletterens	Suisse		dorisaeberhard@bluewin.ch
09-10 septembre	Samara	France		p.marchand@somme.fr
09-10 septembre	Rioja	Espana		miguellsiles92@gmail.com
16-17septembre	Agurain (Alava)	Espana		sylvietxantrea24@gmail.com
16-17 septembre	Bad-Buchau	Deutschland	Sunday	christian.foppa@hispeed.ch
16-17 septembre	Zonhoven	Belgique		guido.pirotte@zonhoven.be
23-24 septembre	ArcheoParc Val Senales	Italia		info@archeoparc.it
30 sept- 01 oct	Vence	France	Saturday Sunday	prehisttir@gmail.com ; ismael136@hotmail.com
07-08 octobre	Bougon	France	Sunday	rodolphe.aubugeau@cg79.fr
14-15 octobre	Vallon Pont d'Arc (caverne du Pont d'Arc)	France	Saturday Sunday	mere.terre@wanadoo.fr
21-22 octobre	Brassempouy	France	Sunday	christophechartier@gmx.com
12-13 novembre	Auneau	France		fabrice.brutus@inrap.fr

International Standard Accuracy Contest

2017 ISAC Results for Men (70 and Above)

Place	*	Score	Name	Home	ST	Date	Contest
1		94x	Bob Kitch	Husum	WA	2/14/2017	Wintercount, AZ
2		93xxx	Douglas Bassett	Warsaw	NY	3/25/2017	Jim's Pro Shop, Shortsville, NY
3		92xx	Jon Wood	Madison	MO	3/4/2017	Columbia, MO
4		89	Ben Struzynski	Ogdensburg	WI	1/6/2017	Fond du Lac, WI
5		88	Greg Maurer	Vergennes	VT	2/18/2017	Silver Springs, FL
6		86xx	Charlie Bracken	Meadville	PA	2/26/2017	Sochoppy, FL
7		85xx	Ryan Grohsmeyer	Horseheads	NY	3/11/2017	Jim's Pro Shop, Shortsville, NY
8	*	85	James Turner	Durango	CO	2/17/2017	Wintercount, AZ
9	*	85	Jim Gnapp	Abbotsford	BC CAN-	2/13/2017	Wintercount, AZ
10		84xxx	Leonard Riemersma	Cascade	WI	1/6/2017	Fond du Lac, WI
11		84x	Russell Richard	Cheyenne	WY	1/1/2017	Trail's End, Cheyenne, WY
12		84x	Neville Robins	Toyavale	TX	2/17/2017	Wintercount, AZ
13		83x	Jim Fisher	Grand Island	NY	3/25/2017	Jim's Pro Shop, Shortsville, NY
14		83	Jerry Nevins	Jefferson City	MO	2/11/2017	Horse Around Ranch, Truxton, MO
15		83	Frank Lukes	W. Lafayette	IN	3/24/2017	Valley of Fire, NV
16		82	Kevin DeChant	Centertown	MO	2/11/2017	Horse Around Ranch, Truxton, MO
17		82	Dave Patterson	Ashland	MO	2/25/2017	Columbia, MO
18		78	Gordy Behrendt	West Bend	WI	3/3/2017	Tuffy's, Fond du Lac, WI
19		77	John Blankenship	St Charles	MO	1/21/2017	Horse Around Ranch, Truxton, MO
20		77	Sean Matney	New Franklin	MO	3/4/2017	Columbia, MO
21		76	Glenn Purpura	Moab	UT	2/18/2017	Wintercount, AZ
22		75	David Sheppard	Cheyenne	WY	1/1/2017	Trail's End, Cheyenne, WY
23		74x	Glenn Fretwell	Jordan Valley	OR	3/24/2017	Valley of Fire, NV
24		73	Allan Turner	Scottsbluff	NE	2/16/2017	Wintercount, AZ
25		72xx	Bob Berg	Candor	NY	2/19/2017	Silver Springs, FL
26		71	Ken Villars	Apple Valley	CA	3/26/2017	Valley of Fire, NV
27		71	Glen Oechsner	Campbellsport	WI	1/6/2017	Fond du Lac, WI

2017 ISAC Results for Women (50 and Above)

Place	*	Score	Name	Home	ST	Date	Contest
1		75x	Dawn Wagner	Truxton	MO	2/11/2017	Horse Around Ranch, Truxton, MO
2		74	Sue Mercer	Attica	NY	2/14/2017	Wintercount, AZ
3		61x	Carey McCormack	Vancouver	WA	3/23/2017	Valley of Fire, NV
4		51	Anita Lukes	W. Lafayette	IN	3/26/2017	Valley of Fire, NV

2017 ISAC Results for Youth (40 and Above)

Place	*	Score	Name	Home	ST	Date	Contest
1		94	Marlin Bassett	Warsaw	NY	3/25/2017	Jim's Pro Shop, Shortsville, NY
2		65	Quin Crist	Durango	CO	2/16/2017	Wintercount, AZ
3		58	Caleb Gates IV	Durango	CO	2/12/2017	Wintercount, AZ
4		49	Demetri Voelker	Bodega	CA	2/18/2017	Wintercount, AZ
5		48	Moses Voelker	Bodega	CA	2/17/2017	Wintercount, AZ
6		43x	Makenna Coleman	Durango	CO	2/13/2017	Wintercount, AZ

* Indicates ties which have been placed in their proper order, using the tie breaker rule

Candidate Statements

Candidate for Vice-President:

Douglas Bassett (NY):

Candidate Statements for 2017 WAA Election

Candidate for Vice President:

Douglas Bassett (NY):

I am a third generation resident of Warsaw, NY on both sides of my family. Over the last four decades I have been the park naturalist at Letchworth State Park. I have walked the equivalent of several times around the world while talking to others about the wonders of nature. I also love throwing things and done so for more than sixty years. You name it and I am in, rocks, balls, discs, gliders, boomerangs, slings, knives, tomahawks, javelins, spears, and for the last twenty years the atlatl and dart. I like games and I love competition and perhaps I am overzealous in the enjoyment of the latter. I am interested in long distance throwing and the legalization of the atlatl as a hunting weapon. I strive to keep events fun for all the "kids". I am interested in bringing our sport to the masses and learning from the disenfranchised. A vote for me is a vote to promote throwing.

Candidate for Executive Secretary:

Deb Andrews (OH):

My entry into the world of atlatl began in the late 90's, when I volunteered to help out at a local event in Ohio. Martin Strischek grabbed my arm and insisted that I learn to throw and I've been hooked since that event. I enjoy the competitions, but I enjoy the people, camaraderie, and fun even more. I have met and corresponded with many WAA members and have been lucky enough to have several people as mentors in throwing as well as crafting equipment. I have served as the interim secretary for the past year, and I'm still learning as I go. Being retired, I have more time to devote to the duties of the secretary than someone who is in the workforce. I would like to continue to serve in this position for a full term, and help WAA grow in membership and public awareness.

Candidates for Board of Directors:

Ryan Grohsmeyer (NY):

I got hooked on atlatls when I was 14, working on the Boy Scout archaeology merit badge in Southern Maryland. After lots of messing around I ended up with equipment that worked alright and got my parents to drive me to knap-ins in Pennsylvania and New York. Since then I've made my own equipment, taught dart making classes at Mid-Atlantic Primitive Skills (MAPS) meets in Maryland, made darts for and taught at Boy Scout Camporees, Native American Heritage Days, summer camps and middle school events and organized two ISAC events through the NYAA while a student at Alfred University. In College there, I started measuring dart speed with a high speed video camera, and since starting grad school in Missouri the great crowd there has let me video, measure, and weigh their darts to calculate kinetic energy and momentum of their darts. I'm interested in showing atlatls to other people and learning about the physics of atlatls, and in finding measurement techniques to help us understand atlatls and darts from an engineering perspective. I also like making reproductions of archaeological dart finds and trying to figure out why our ancestors made darts the ways they did.

Andy Majorsky (PA):

I have been involved with the World Atlatl Association since 1999 going to many events, helping to set up events, and serving one term on the board of directors. I have promoted the atlatl by doing many demos for individuals, boy scouts, church groups, women's groups, colleges, museums and many atlatl events over the years. I hope to continue to promote the atlatl in the future.

David Patterson (MO):

My name is David Patterson, and I have been throwing darts with an atlatl for more than 20 years. I make all my own equipment, and I like to explore the limits of design and materials. I am active in the local atlatl community, which is fairly robust here in Missouri. I have hunted and fished with atlatl and dart; with some notable success in the fishing side. My ISAC scores are respectable but not likely to gain international attention. For the future, I intend to remain active in the atlatl scene for as long as I am able, and who knows: I may have a big score in me yet.

Margery Takoch (OH):

Hi, I'm Margery Takoch. My husband, Frank and I have been with the WAA since 1998. I enjoy competing and all the folks we have met. I was a past editor of *THE ATLATL* for 9 years and had to step down for health reasons. I was on the board for most of the time. I would be happy to serve again.

Non-US Board of Director Candidate:

Bernard Bouffier (France)

Dear Friends of the Atlatl:

Soon three years that I represent the World Atlatl Association for Europe. I continued to initiate hundreds of visitors to the Atlatl on my prehistoric site and to produce Atlatl events at home and for other sites. You may have seen the amusing video of the French TV channel. I always circulate an exhibition on "The Atlatl from Prehistory to the Present Day", which is always getting bigger with more and more information. This exhibition is not only installed on competitions, but also on events of Prehistory, to illustrate Atlatl initiation. I managed to get atlatlists to join us to validate more ISAC in Europe. Three years ago we were less of a handful and I was the only one to be a member for more than seven years to be elected. The number of European members has improved considerably, although I would have liked to see more. The atlatl is a passion and I will always be honored to represent our association.

WAA BALLOT

VICE PRESIDENT _____ Douglas Bassett (NY)

EXECUTIVE SECRETARY _____ Deborah Andrews (OH)

EXECUTIVE TREASURER _____ No one nominated at this time

BOARD OF DIRECTORS (VOTE FOR THREE)

_____ Ryan Grohsmeyer (NY) _____ David Patterson (MO)

_____ Andy Majorsky (PA) _____ Margery Takoch (OH)

NON-US BOARD OF DIRECTOR (VOTE FOR ONE)

_____ Bernard Bouffier (France)

MAIL YOUR BALLOT(S) POSTMARKED BY **JUNE 15 2017** TO:

Deborah Andrews (WAA Executive Secretary)

2041 Reynolds Ave

Albany, OH 45710

On the back of the envelope, write **BALLOT**, and legibly sign. Each person with a ballot in the envelope should sign the back of the envelope. Use one ballot for each eligible voter. Members of a Family Membership are each eligible to vote and should copy the ballot for voting as needed and may place all ballots in one envelope. Ballots will not be opened and counted until the Annual Meeting.

ELECTION OF WAA OFFICERS AND BOARD OF DIRECTORS

If you cannot attend and vote at the Annual Meeting in Husum, WA on August 5, 2017, please vote by mail.

ELIGIBILITY (per WAA Bylaws)

--WAA member (dues current by the Annual Meeting Date)

--18 years or older

--Members cannot give their ballot to anyone else nor allow anyone else to fill out their ballot

Categories of Membership and votes accorded to each

Individual: One person—one vote

Family: Any member of an immediate family living on the same property who is 18 or older shall have one vote and shall use a separate ballot. Additional ballots may be copied or handwritten

Institutional: One vote

Supporting: One vote

Contributing: One vote

Fellow/Lifetime membership: One vote

Honorary: No vote

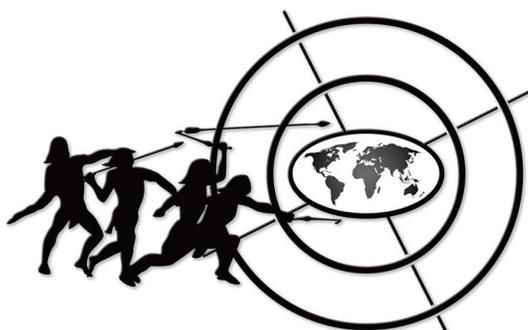
Frank Lukes

3809 Broadview Road

West Lafayette, IN 47906

Phone: (765)250-8234

Or Email: theatlatl@gmail.com



The WORLD ATLATL ASSOCIATION. Inc.

The Thirtieth Annual Meeting Will Be In Husum, Washington at the Home of Bob and Gale Kitch August 3-6, 2017

Directions to Event

From Portland, OR, travel East on I84 to exit #64. At the stop light, turn left (north). If coming from the East on I84 take exit # 64. Turn right at the stop light (north).

You will come to a toll bridge (stay in the left lane) where you will cross the Columbia River. At the end of the bridge (you're now in WA) you will turn left at the light onto SR14. Go approximately 2 miles, before crossing the White Salmon river, turn right onto SR141 alt. Go up the grade approximately 3 miles to stop sign. Turn left on SR141 and go approximately 3 miles. You will see a "Entering Husum" sign on your right, also a Fordyce Rd. sign. Proceed approximately 800 feet to Fordyce Rd (on left). You will make a sharp left turn. Go ½ mile on Fordyce Rd. to fork in the road. Take right fork. Go 100 feet and turn right at 45 Fordyce Rd. (large sliding gate), follow driveway to the house (¼ mile).

