

The ATLATL

JULY 1994

"Too long have I hunted mammoth alone!"
Rich McWhorter

VOL. 7, NO. 3

THE NEWSLETTER OF THE WORLD ATLATL ASSOCIATION, INC.
1390 SOUTH PARIS COURT, AURORA, COLORADO 80012, USA

EDITOR: BILL TATE

TUNING



© By Virgil Hayes, 1994

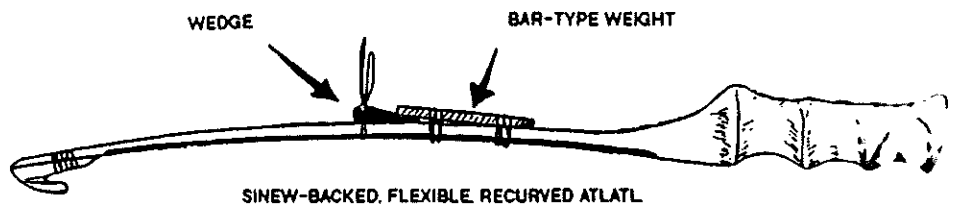
This report presents new theories on the physics of spear shafts, atlatls, and the functional dynamics of atlatl weights as spear shaft tuners.

FACTS

The atlatl is a device that serves to add greater length and therefore greater propulsive force to the arm of the thrower in launching a spear. This is true of all atlatls having rigid--inflexible shafts, and is the sole mechanical advantage of a rigid atlatl.

Atlatls having flexible shafts also offer this advantage, and more. The second mechanical advantage is that the atlatl can store energy when it is flexed, much like the limb of a bow. The weight of the spear shaft resists the forward momentum during the cast causing the flexible atlatl shaft to bow and gain energy. This added, stored energy is released at the end of the cast.

Adding weight to any atlatl offers no advantage to the atlatl itself. It only reduces the amount of propulsive force being applied, and this will slow the forward acceleration while



casting a spear. By doing this, the atlatl weight is doing its job, not to create energy, but to reduce energy. This is the primary function of all atlatl weights.

SPINE

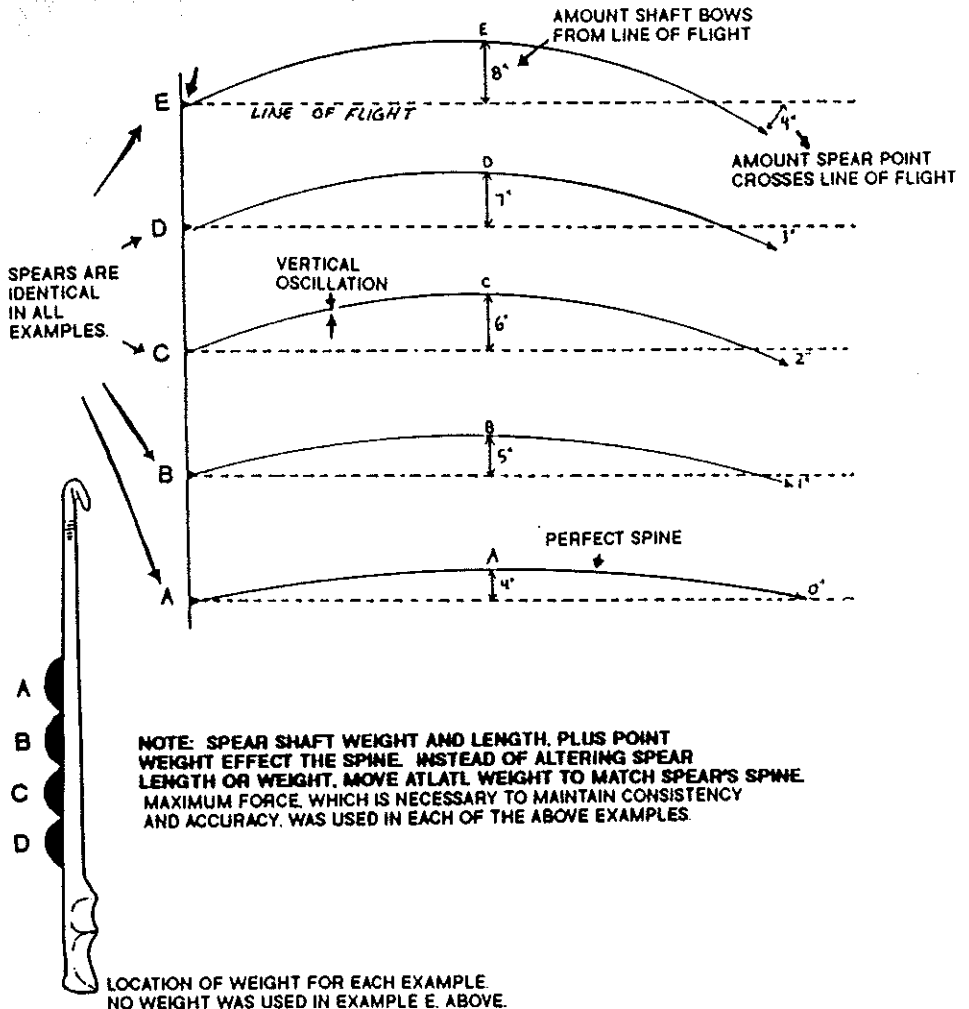
The spine of the arrow or spear shaft refers to its stiffness--its ability to bend or its resistance to bending. An arrow does not fly straight out of a bow, nor does a spear from an atlatl. When a spear shaft is released during an atlatl cast, the resulting force starts the shaft moving forward. The shaft bends as it accelerates. The first bend is usually upward, then it straightens as it passes the line of flight, and begins a downward bend. This wave action or flexing continues as the shaft flies down range. The further it goes, and the stiffer the shaft, the less it bends. The faster the recovery from this flexing, the straighter the shaft will fly. The correct spine of a shaft, combined with the total weight of the spear, including

the projectile point, must be matched with the amount of force applied during a cast. A shaft which is properly spined for the maximum energy at the point of release will fly perfectly each throw. But, if you replace the projectile point with a heavier head, or make other changes to the spear, significant changes in flight characteristics will occur.

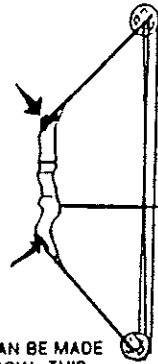
Instead of altering the length or weight of the spear shaft, the atlatl weight can be moved to match the spine of the spear with the energy being applied. This would

work well if you had several spears, which, due to structural variation, had differing spines.

Maximum force should always be used when casting a spear with an atlatl. It is just like shooting a bow that has 50 lb. pull at 28 inches of draw. Consistency is necessary to maintain accuracy. Failure to be consistent would give the shaft a



Arrows indicate adjustment points



ADJUSTMENTS CAN BE MADE TO COMPOUND BOW THIS EXAMPLE MAY BE SET FROM 45 TO 60 POUND PULL

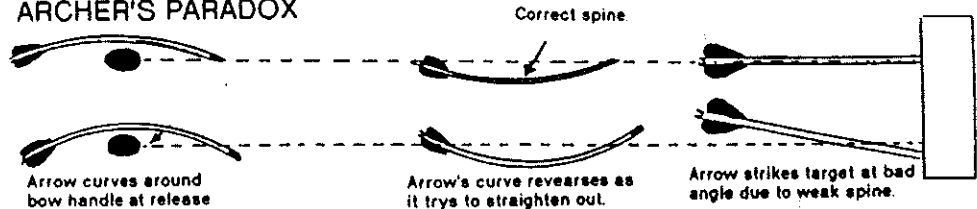
different spine with each cast resulting in variation in the spears flight characteristics.

If the spine is correct, fletching is not needed. Contrary to popular belief, if a spear shaft is rigid, that is, has too much spine, gravity will take over at the point of release and erratic flight will occur regardless of fletching.

Natural materials inherently have one weak side resulting in differential flex. The weak side may be determined by placing the shaft point down and repeatedly pressing downward against the rear

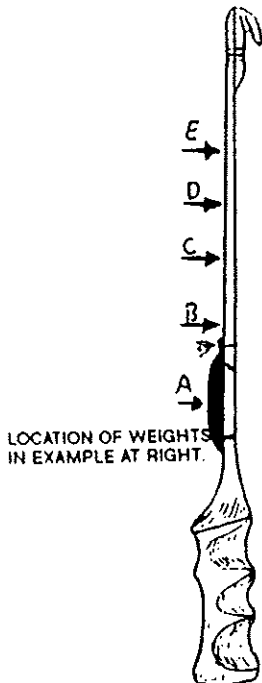
end to make the shaft flex. The side which bends consistently is the weak side. When casting, the weak side should be down to insure the oscillation occurs vertically. (Arrows oscillate horizontally--atlatl darts, vertically.)

ARCHER'S PARADOX

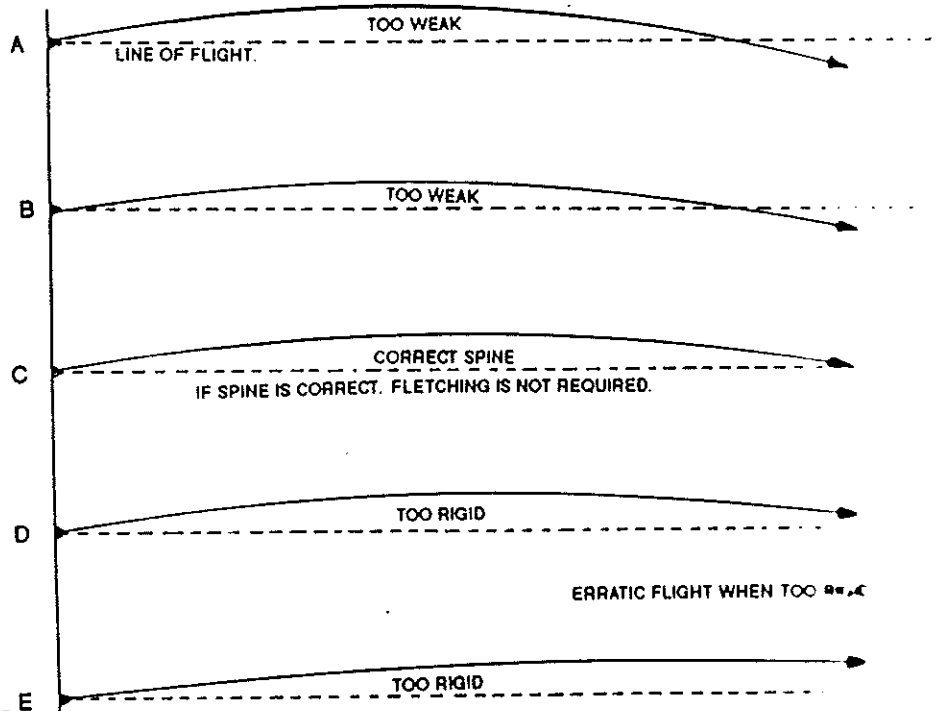


ARROWS AT TOP AND BOTTOM ARE IDENTICAL AND WERE SHOT FROM THE SAME BOW THE BOW WAS SET FOR 50 LB IN THE TOP EXAMPLE AND 60 LB IN THE BOTTOM.

When casting, the weak side should be down to insure the oscillation occurs vertically. (Arrows oscillate horizontally--atlatl darts, vertically.)



LOCATION OF WEIGHTS IN EXAMPLE AT RIGHT.

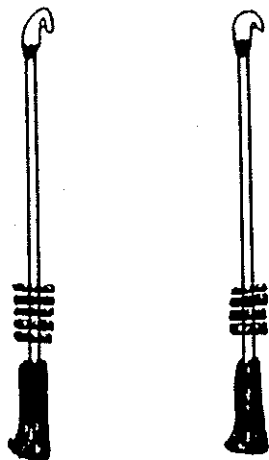


AN ATLATL WITH AN ADJUSTABLE WEIGHT WORKS IN THE SAME MANNER AS WITH MODERN COMPOUND BOWS. ENERGY CAN BE ADJUSTED OR TRANSFERRED

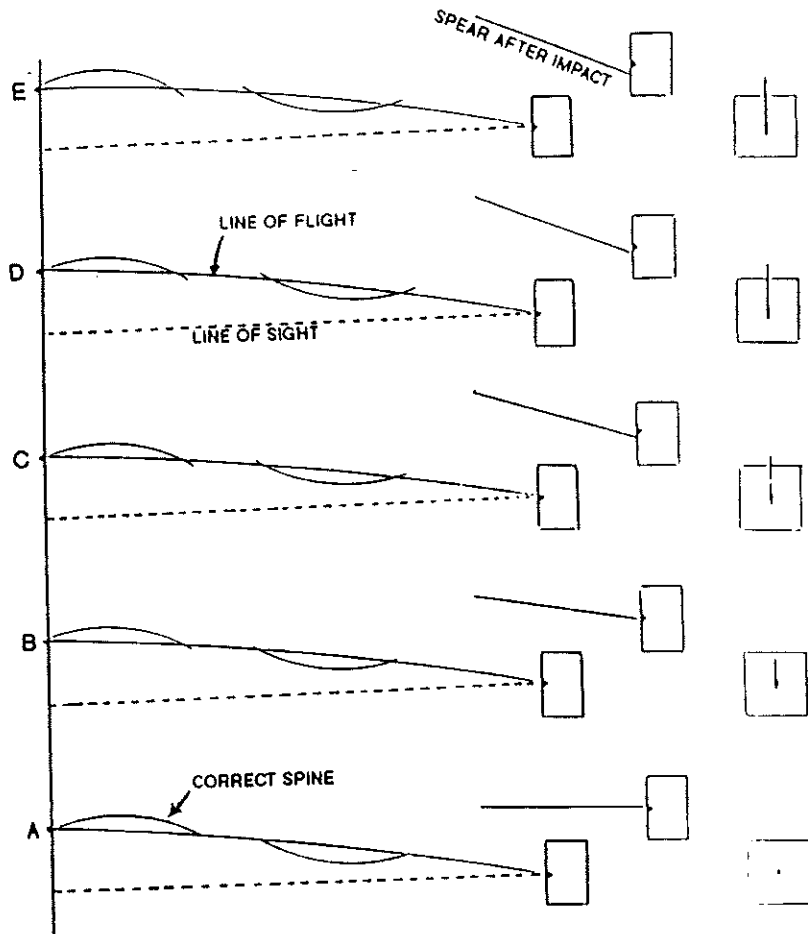
ATLATL'S PARADOX

SIDE VIEW OF TARGET

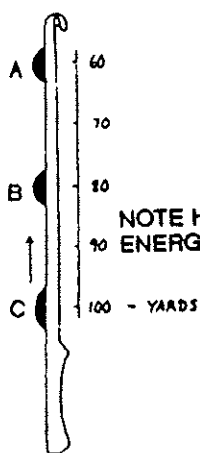
HEAD ON VIEW OF TARGET



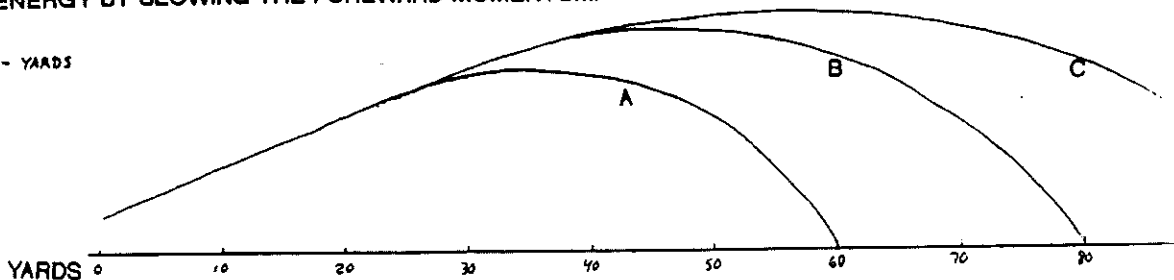
REMOVING OR ADDING WEIGHTS WORKS THE SAME AS MOVING WEIGHTS UP OR DOWN ATLATL.



NOTE. SPEARS A. B. C. D. & E ARE THE SAME SHAFT THROWN WITH FULL FORCE



NOTE HOW ATLATL WEIGHT CAN BE MOVED TO REDUCE ENERGY BY SLOWING THE FORWARD MOMENTUM.



Readers are encouraged to contact Virgil Hayes directly with comments on the above ideas. Write Virgil Hayes, 1119 Hogen St., Chillicothe, MO 64601, phone (816) 646-2514.



RON IN THE HUNTING MOOD!



THE PREY



STEVE & BOB BERG
FLINTKNAPPING

THE AUTHOR LOU BECKER

ATLATL BOAR HUNT
By Lou Becker

Unlike last year, the weather in Vidalia, Georgia was sunny and warm--about 85 degrees in the shade. Most of the northern hunters felt that the weather was a little too warm for boar hunting.

This year's hunt was much more difficult than the previous two years. Either Steve Coleman warned the wild boar that the atlatl hunters were coming, or the hot weather caused them to hide out in the swamps. At any rate, no kills were made this year. The closest throw at a hog all weekend was a miss from about 30 yards at a full run.

On Saturday morning, March 19th, my good friend Scott Nichols severely twisted his ankle while either chasing or avoiding a boar. Either way, Scott was out of the hunt for this year.

Before we departed on Sunday, each of us signed one of our hunting darts and donated it to Steve Coleman, hunt organizer. He plans to make a plaque with various hunting darts from those who participate in his annual hunt.

All in all, the companionship of people who share

the interest and the comparison of equipment, flint knapping, etc., more than make the trip to Georgia worthwhile. Taking a wild boar would just ice the cake.

The following out-of-state hunters took part in the 1994 Atlatl Boar Hunt:

From Michigan:

- Norm Blacker
- Scott Nichols
- Ron Rappaport
- Lou Becker

From New York:

- Bob Berg

From Florida:

- Joe Spooner

Thanks to Steve and Sharon Coleman for another great atlatl boar hunt weekend.

Ed. Note: And our thanks, once again, to Lou Becker for his report on this annual event. We hear, sadly, that there was one fatality at this year's hunt. Steve's dog was bitten by a rattlesnake and died a few hours later.

L E T T E R S

Here's a short report on the first atlatl matches held as part of New York State Muzzleloaders Association held on May 28-29, 1994.

In spite of an initial suspicion from folks used to using "modern" devices like flintlocks and percussion muzzleloaders, it didn't take long before my "Claw" atlatls were loaned out and in steady use.

We ended up having kids aged 6 to 60 casting 65 inch dart-arrows as fast as we could retrieve them. One pair of gentlemen over 40

couldn't get the hang of it and were soundly defeated by an 8 year old on his first three throws...

The match (demonstration) was set up to throw toward a stake marking the longest toss to date using "regular" atlatls and 65 inch aluminum dart-arrows...any deviation over 1 yard from the direct line to the stake was deducted from the throw. (Accuracy counts!) My first effort of 108 yards was quickly passed by Paul Maccarone at 122 yards. Then we were blown out of the water by Paul Dano who went to 132 yards. After some quick retooling we went back and battled it out. End results were Paul Maccarone, still at 122 yards, then my best throw at 128 yards, and without question, the first NYS atlatl record holder, Paul Dano with 159 yards. Dano and I both were less than 1 yard off line!

Additional atlatl matches will be held during the NYSMLA Annual Championship, Aug. 6-7 and at the fall shoot over Labor Day. Running target, accuracy, and distance (We have about 230 yards available.) If you'd like to join in...bring your tomahawk, throwing knife, and any muzzleloader to make a complete time of it. TOWN OF OHIO RECREATION PARK, RT. 8 NORTH OF UTICA, NEW YORK. CALL FOR A FLYER: (607) 754-7968.

Thomas A. Henley
NYSRPA Muzzleloading Director
200 Clifford Dr., Vestal, NY 13850

Would you please send a complimentary copy of the "Atlatl" to Jorgen Meldgaard, Curator of the Danish national Museum in Denmark. I just received a request from him for this service.

The museum has about 103 different pieces of throwing boards (atlatls). Did you know that North Americans are the only people who refer to the spearthrower as an atlatl. In Australia I have eight different names for the spearthrower, In Greenland and Denmark they are referred to as throwing boards, and in any Spanish speaking country they are referred to as either estolicas or tiraderas, the former being more commonly used. In German I believe there are at least two to three different words for spearthrower and the French just use propulseur. Oh, and the Central Eskimo referred to the spearthrower as a "Nuqsang," unless this is Franz Boas' translation of their word. Just a small tidbit of triviality.

Best Regards,
Lorenz W. Bruchert
Vancouver, B.C. Canada

In another letter from Lorenz Bruchert we hear the following:

My friend Ulrich Stodiek has contacted me from Germany and has asked me to let the WAA know that he is now making Palaeolithic type spearthrowers for sale at about 300 DM--that comes to about \$184.00 US funds.

Although no address was given for Ulrich Stodiek, WAA has sources who can find out that information. Please contact your Secretary, Leni Clubb or editor, Bill Tate should you wish to contact Mr. Stodiek.

Incidentally, our next issue of "The Atlatl" will contain a brief summary (in English) of Ulrich Stodiek's Doctoral Thesis: Zur Technologie der jungpaläolithischen Speerschleuder. (The full thesis, a major work on Spearthrowers, is available for sale for 135 DM, approximately \$82.00 from: Institute für Ur- und Frühgeschichte der Universität Tübingen, Schloß, 72076 Tübingen, Germany. This 276 page paper has 118 plates and is written in German.

Our center is part of Big Bend Ranch State natural Area, a 300,000 acre wilderness preserve operated by Texas Parks and Wildlife Department. We use atlatls as part of our programs in archaeology and desert survival. Our visitors truly enjoy "touching the past" with spear throwers--especially the school kids.

During Texas Archaeological Awareness Week, our agency and the Big Bend Archaeological Society take atlatls to local schools as part of our outreach. We take the kids to a nearby baseball field and give them atlatls and darts tipped with pencil erasers. Only the thrower is allowed in front of the backstop. We get pretty tickled when the girls give further casts than the guys. The boys try for distance and power it like a football causing some pretty wild tosses. The girls just gracefully flick the dart out with a nice serving of humility for their "jock" counterparts!

I am interested in joining your association.

David Alloway, Interpretive Naturalist
Barton Warnock Environmental Education Ctr
Terlingua, TX

Check out the July '94 SCIENTIFIC AMERICAN. There is a great article by Heidi Knecht titled "Late Ice Age Hunting Technology" dealing with the strengths and weaknesses of certain Cro-Magnon projectile points and hafting techniques used.

FLINTKNAPPING
Making and Understanding Stone
Tools --- by John C. Whittaker

This great new publication, just out last month from The University of Texas press is the new "bible" on the subject of knapping.

Written by an archaeologist, but with the amateur in mind, the book will serve professionals, educators and anyone interested in experimental archaeology.

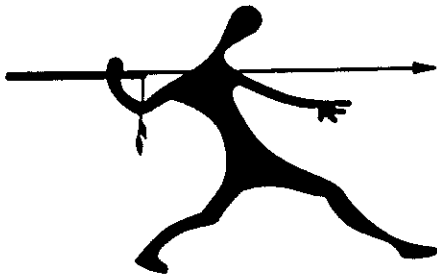
Of significant importance to this editor, is the author's insight into understanding tools of the past through a knowledge of lithic materials and flintknapping techniques which only knappers and a very few others possess.

WELL WORTH THE MONEY!

6X9 in., 352 pp., 12 b&w photos, 226 line drawings, 2 charts. \$49.50 cloth/ISBN 0-292-79082-1,

\$24.95 paper/ISBN 0-292-79083-X

Write to The University of Texas Press, P.O. Box 7819, Austin, TX 78713-7819



NEW LOGO FOR THE IMPERIAL
VALLEY DESERT MUSEUM AND
INFORMATION CENTER

on target



Never let it be said that I, facetiously called "the Nabob" by my friends in Colorado, unduly influence people when it comes to things regarding the ATLATL!!! However, when it came to choosing a logo for the soon-to-

be-built Imperial Valley Desert Museum and Information Center in my community of Ocotillo, California, the logo turned out to be a drawing of a thrower of the atlatl as depicted here in this column. There is of course, some suspicion that my personal bias influenced this decision.

Additionally, the Director has asked me to design the new landscaping for what he calls an "atlatl court." His idea includes a full "course" such as we use in WAA contests, where we can hold events in the Fall, Winter and Spring--it's too hot in the Summer. Also included in the plan is a practice area with hay bales set in a sandy wash to encourage people to try throwing.

The Museum tee shirt sports a large depiction of the thrower on the back and a small one in the breast pocket area. The drawing was done by Jaime Sevrin, the Museum's photographer and display designer, a very talented young man.

Don't forget to check your mailing label for your membership expiration date in the upper right corner. If the date is May, June or July, you will have a "Dues are due" slip attached to this issue.

Dates for your 1995 calendar:

April 7-8-9 --Fifth Annual Atlatl Contest at the Valley of Fire State park, Overton, Nevada.

June 16-17-18 -- Third Annual Atlatl Contest at Fremont Indian State park, Sevier, Utah.

Leni

**OFFICIAL
SAFETY RULES
OF THE
WORLD ATLATL ASSOCIATION**

Because there is a potential for injury through atlatl use, the World Atlatl Association found it necessary to enact certain rules of safety to be followed at all WAA supported events. We hope that this in no way will deter from the prime purposes of such events i.e., FUN, EDUCATION, and DEMONSTRATION.

The atlatl and dart is a weapon system, designed initially for hunting and can be dangerous. WAA has not had any injuries during its several years of promoting contests and demonstrations. Let's keep it that way.

Because WAA events are held in different locations with special restrictions due to terrain features or for other reasons, an all encompassing set of rules may not be possible. Safety officials, event sponsors, or others may supplement the following with special rules. Such rules will be overseen by WAA Safety Officers just as with WAA rules.

Safety Officers will be designated for every WAA supported event. Rulings by Safety Officers take priority over any others.

TERMS:

Atlatl -- A rigid device used to propel a dart. (A spearthrower)

Dart -- A short, light-weight spear designed to be propelled by an atlatl.

Field -- Designated contest, demonstration, or practice area where darts may be cast.

Range -- That portion of the "field" where targets are set up for competition or demonstration, or that portion which is designated for long distance throws.

Target -- Any specially designed point or object at which darts are cast. Usually these are painted cardboard sheets attached to hay bales, but might be marked circles or lines on the ground or any other designated point.

Safety Line -- A designated line, whether marked or not, beyond which, spectators, or others not currently and directly involved in the atlatl event, are restricted.

Safety Officer -- A person specifically designated to insure these rules are observed and to oversee general safety on the atlatl field.

Scorekeeper -- A person attending throwers, whether accompanying the thrower or not, keeps score and maintains safe distances from previous, downrange throwers.

Thrower -- A thrower of a dart with an atlatl. The next one to throw.

GENERAL RULES:

Only participants--Throwers, Scorekeepers, and Safety Officers will be allowed on the field during contests, demonstrations or practice. (Exceptions might be required for news media or others, but each exception must be passed by the Safety Officer.)

The Field is limited to atlatl use only, and no boomerangs, archery equipment, firearms, slings or other devices may be used unless specifically permitted by Safety Officers. It is understood, that during special demonstrations some of these weapon systems might be used for comparison or other purpose, but each case must be cleared.

Pets are not allowed on the Field during contests, practice or demonstrations.

No throwing when others are down range. Note that the range is normally set up to allow throwers to begin throws after the previous thrower or group of throwers are well away from the target. The Scorekeeper with direction from the Safety Officer will determine when it is safe to start the next thrower.

Throwers will throw from behind a designated line. Second and subsequent casts at a target will be from where the point of the dart comes to rest. Should overthrowing of the target occur, the next cast will still be from the point of the dart.

As in golf, when groups, "foursomes," are throwing, the person farthest away from the target for second and subsequent throws, will throw first and all others will remain well behind the thrower until the cast is complete.

There will be NO rowdy or unruly play with atlatl and darts.

To prevent injury to the thrower or others on the field, darts will be carried vertically--point down, and there will be no running with darts in hand.

Should the terrain be such that the thrower cannot clearly see downrange, he must move his dart to the closest point equal distant from the target where visibility is adequate.

Clearly, no set of rules can encompass every possibility that may arise. It is therefore imperative that all participants and spectators follow additional requirements that the Safety Officer sees as necessary for the safety and well-being of everyone involved.

Above all, use common sense safety practices and enjoy the atlatl experience.

WORLD ATLATL ASSOCIATION SAFETY RULES -- 1994

CONTEST RESULTS, THE WORLD OVER

The World Open Atlatl Contest was held June 25, 1994 at Fort Caspar Museum, Casper, Wyoming. Competition was very close and several "sudden death" matches were required to determine winners.

ATLATL ACCURACY ROUND

<u>JUNIOR</u>		<u>WOMEN</u>		<u>MEN</u>	
*1	Toby Honadel	1	Leni Clubb	1	Ken Wee
*2	Devin Corrigan	2	Carol Greet	2	Barry Kimball
*3	Todd Honadel	3	Denese Burton	3	George Stewart

ATLATL "GOLF" ROUND

<u>JUNIOR</u>		<u>WOMEN</u>		<u>MEN</u>	
1	Todd Honadel	1	Leni Clubb	1	Barry Kimball
*2	Daniel Hicken	2	Carol Greet	2	Jim Ray
*3	Devin Corrigan	3	Allison Youngberg	3	Ken Wee

WORLD CHAMPIONSHIP ROUND

*1	Jim Ray		
*2	Ken Wee		
*3	Barry Kimball		

* denotes "sudden death" shoot



FREMONT INDIAN STATE PARK, UT - JUNE 11
 Twenty-two participants from five states (Utah, Montana,
 California, Colorado, and Arizona competed in this year's event.



CRYSTAL TOPHAM, JORDON TOPHAM, REEVES POLLOCK,
 ALLEN OLDROYD, BRENT HARDY, AND LAYNE SONDRUP.

PATTI & RAY THOMPSON, BILL TATE, WAYNE BRIAN, JIM RAY.
 FRONT: LENI CLUBB AND HEIDI DAETWYLER.

	10 AND UNDER	11 - 16	WOMEN	MEN
1st	Jordon Topham	Allen Oldroyd	Leni Clubb	Jim Ray
2nd	Crystal Topham	Brent Hardy	Heidi Daetwyler	Ray Thompson
3rd	Reeves Pollock	Layne Sondrup	Patti Thompson	Bill Tate

GRAND CHAMPION (Any Equipment, Modern or Primitive)

Primitive -- Jim Ray

Modern -- Patti Thompson

Long Distance Throw

1st Wayne Brian (542 ft.) 2nd Bill Tate (269 ft.) 3rd Jim Ray (245 ft.)

July
CITATION
 MONTANA ATLATL MAMMOTH HUNT
 You are hereby cited for the following violation(s):
 hunting off the reservation
 fatally injuring a member of an endangered species
 injuring or attempting to kill member of an endangered species
 shooting at a reporter
 throwing at a moving target
 This citation is issued by an official game warden.
Jim Ray
 signature of violator

 A kangaroo count has been held and YOU ARE GUILTY!
 No appeals allowed.

CITATION
 MONTANA ATLATL MAMMOTH HUNT
 You are hereby cited for the following violation(s):
 hunting without a license
 hunting off the reservation
 fatally injuring a member of an endangered species
 injuring or attempting to kill member of an endangered species
 shooting at a reporter
 throwing at a moving target
 This citation is issued by an official game warden. (N.S.)
Manuel & Helen White
 signature of violator

 A kangaroo count has been held and YOU ARE GUILTY!
 No appeals allowed.

HUNTING LICENSE
 July 2, 1994
 This license permits (Reluctantly)
Manuel & Helen White
 to compete in the
 6th Annual
 MONTANA ATLATL MAMMOTH HUNT
 July 2, 1994
 White Ranch
 3212 York (Lori) Road
 Helena, Mt. 59604
 J.W.W., Registrar & Controller



MONTANA MAMMOTH HUNT
 By Manuel & Helen White

Due to the previous mild winter, the mammoth were fat and the 6th Annual Montana Atlatl Mammoth Hunt was very successful. The men launched their spear darts at ten meter intervals from 30 to 60, with three attempts at each distance, throwing at a large (8X10 ft.) mammoth target. The women threw at half the distance at the smaller (5X7 ft.) mammoth target. A point scoring system was used. And the winners were:

PLACE	MEN	AGE	POINTS	PRIZE	PLACE	WOMEN	POINTS	PRIZE
1st	Melvin Beattie	50	115	TROPHY	1ST	Shirley Helmick	30	Trophy
2nd	Jim Ray	53	110	Silver medal	2nd	Sandra Beattie	15	Silver Medal
3rd	Manuel White	78	100	Bronze medal				
4th	Troy Helmick	60	90					

MIGHTIEST HUNTER CONTEST: 1st Melvin Beattie, 2nd Jim Ray, 3rd Manuel White.

Officials were: GAME WARDENS - Bill Wicks & Norm Smith. NEWS REPORTER - Mary Holm for "The Active Montanan" HOSTESS - Helen White. CHEP - Melba Wicks. REGISTRAR & CONTROLLER - John Wilson White. HUNT MASCOT - Charmaine White.

The lunch of venison meat loaf was thoroughly enjoyed by all. No alcohol was permitted on the premises. Numerous citations were issued by the busy and alert "Game Wardens." (See above.) The culprits were arrested, their hands bound with rawhide and presented to the "Kangaroo Court." Fines were heavy and their atlats and darts were confiscated!

Ed. Note: The seventh Annual Montana Atlatl mammoth Hunt is scheduled for the last Saturday of June, 1995. Sounds like lots of fun.

SPEARTHROWING CHAMPIONSHIPS OF EUROPE - 1994

By Pascal Chauvaux

The European Speartrowing Championship takes place in five parts, in three countries: Germany, Belgium, and France. This event is jointly organized with the Prehistoric Bow Championship. The organizers in each country use the same rules and regulations. "Hunters" make three trips around the course throwing at ten different targets set at 8, 10, 12, 14, 16, 18, 20, 22, 24, and 26 meter distances. The targets have five concentric circles to

score 5, 4, 3, 2 and 1 point. The overall score is a mathematical coefficient obtained by comparing the number of target hits with the number of spears cast (30) times the number of points obtained compared to the number possible (150) times 100.

The first contest of the '94 championship took place in Ramioul, Belgium on April 23rd. The "hunting" course was set in the woods around the new museum. Twenty-five competitors from five nations participated: Belgium, France, United States, Great Britain, and Germany. The World Atlatl

Contestant	Country	Points	Darts	Coefficient
1 CHAUVAUX Pascal	B	63	25	35,0000
2 CABARAUX Steve	B	57	20	25,3333
3 CATELAIN Pierre	B	44	16	15,6444
4 MAXENCE Alain	B	37	18	14,8000
5 DECLERCQ Didier	B	38	17	14,3556
6 FORREST Daniel	USA	42	15	14,0000
7 COLLIN Fernand	B	34	17	12,8444
8 SELLEKAERTS Alain	B	38	15	12,6667
9 SPECKENS Jean	B	39	12	10,4000
10 STREET Martin	GB	31	14	9,6444
11 ROZOY Jean-Georges	F	31	13	8,9556
12 GILLAIN Thierry	B	30	13	8,6667
13 MATHEUS Pierre	B	32	12	8,5333
14 STODIEK Ulrich	D	27	13	7,8000
14 JUNKMANNS Jürgen	D	27	13	7,8000
15 ADLER Daniel	USA	27	12	7,2000
16 BAUMANS Louis	B	26	12	6,9333
17 COCCHI Didier	B	24	10	5,3333
18 LEPEERS Christian	B	19	10	4,2222
19 SOUVENIR Sonja	B	23	8	4,0889
20 NOSCHES Thomas	B	10	4	0,8889
21 BOIT Saskia	D	7	4	0,6222
22 MALET Luc	B	6	3	0,4000
23 BAYET Marie-Noëlle	B	3	2	0,1333
24 ZSCHOCH Barbara	D	2	2	0,0889

Association was successfully represented with Pascal Chauvaux (First Place), Pierre Cattelain (Third Place), and Marie-Noelle Bayet (24th).

The second part of the '94 Championship took place May 15th at Samara, an archaeological park in the North of France. Twenty-four throwers from the same five countries participated. W. A. A. members made an outstanding showing with Pascal Chauvaux once again in First Place and fourteen year old Marie-Noelle Bayet in 18th place.

**3rd Open French Spearthrowing Championship
SAMARA (FRANCE) - May 15, 1994**

Contestant	Country	Points	Darts	Coefficient
1 CHAUVAUX Pascal	B	65	26	37.5556
2 ALTRUY Michael	B	69	24	36.8000
3 MAXENCE Alain	B	52	23	26.5778
4 SPECKENS Jean	B	53	20	23.5556
5 CABARAUX Steve	B	48	20	21.3333
6 TINNES Johann	D	40	14	12.4444
7 STODIEK Ulrich	D	36	14	11.2000
8 CONARD Nicholas	USA	37	13	10.6889
9 GILLAIN Thierry	B	35	13	10.1111
10 STREET Martin	GB	33	12	8.8000
11 ADLER Daniel	USA	34	11	8.3111
12 BAUMANS Louis	B	29	11	7.0889
12 ROZOY Jean-Georges	F	29	11	7.0889
14 MATHEUS Pierre	B	20	11	4.8889
15 BOULEISTEIX Nicolas	F	21	10	4.6667
15 IDECLERCQ Didier	B	21	10	4.6667
17 COCCHI Didier	B	23	9	4.6000
18 BAYET Marie-Noëlle	B	19	7	2.9556
19 INOSCHESE Thomas	B	15	8	2.6667
20 LUSTIERE Sébastien	F	14	8	2.4889
21 LEPOT Michel	F	16	5	1.7778
22 JUNKMANNS Jürgen	D	12	5	1.3333
23 LAVALLARD Isabelle	F	4	2	0.1778
24 COSTA Nathalie	USA	4	1	0.0889

**4th Intercontinental Games of Prehistoric Weapons
LES EYZIES (FRANCE) - May 28, 1994**

Contestant	Country	Points	Darts	Coefficient
1 CHAUVAUX Pascal	B	77	26	44.8889
2 MAXENCE Alain	B	49	18	19.6000
3 SPECKENS Jean	B	47	18	18.8000
4 STODIEK Ulrich	D	31	14	9.6444
5 COCCHI Didier	B	35	12	9.3333
6 CATTELAÏN Pierre	B	25	13	7.2222
7 LEPORCQ Xavier	B	24	13	6.9333
8 ROZOY Jean-Georges	F	25	11	6.1111
9 JUNKMANNS Jürgen	D	24	11	5.8667
10 BOULEISTEX Nicolas	F	23	10	5.1111
11 MATHEUS Pierre	B	18	10	4.0000
12 SOUVENIR Sonja	B	20	9	4.0000
12 LADURO Philippe	F	20	8	3.5556
14 BAUMANS Louis	B	14	7	2.1778
15 BAYET Marie-Noëlle	B	13	6	1.7333
15 LAVALLARD Jean-Louis	F	14	4	1.2444
17 BOTT Saskia	D	10	5	1.1111
18 DETHIER Jacques	B	9	5	1.0000
19 LEPOT Michel	F	7	5	0.7778
20 CHAUVIERE Xavier	F	6	3	0.4000
21 LAVALLARD Isabelle	F	5	3	0.3333
22 BIDART Patrick	F	7	2	0.3111
23 ZSCHOCH Barbara	D	4	3	0.2667
24 LADIER Edmée	F	3	1	0.0667
25 PROUST Daniel	F	3	1	0.0667
26 ROUDIER Nicolas	F	2	1	0.0444
27 PROUST Christiane	F	2	1	0.0444
28 MOREAU Philippe	F	0	0	0.0000
29 CHAILLEUX Sophie	F	0	0	0.0000
30 SENSE Georges	F	0	0	0.0000
31 VERDIER Olivier	F	0	0	0.0000

The third contest of the '94 Championship was very interesting. It took place in Les Eyzies, France on May 28th. Les Eyzies is the "World Capital of Prehistory." This is the Perigordian region where Europe's most noted archaeological sites are found: Lascaux, Cro-Magnon, and La Madeleine of the Magdalenian culture. Again, Pascal Chauvaux took top honors against thirty-one throwers from Belgium, France and Germany.

The reputation of The World Atlatl Association is now well established in Europe.

The last two parts of the 1994

European Spearthrowing Championship will take place in Germany on September 4th and in Belgium on September 25th.

Photographs from these contests follow:

EUROPEAN SPEARTHROWING CHAMPIONSHIP - 1994



JURGEN JUNKMANN, GERMANY - SAMARA 15 MAY 1994



ULRICH STODIEK, GERMANY - RAMIOUL 23 APRIL 1994



PASCAL CHAUVAUX, BELGIUM - LES EYZIES 28 MAY 1994



FERNAND COLLIN, BELGIUM - RAMIOUL 23 APRIL 1994



JEAN SPECKENS, BELGIUM - LES EYZIES 28 MAY 1994



ULRICH STODIEK, GERMANY - SAMARA 15 MAY 1994

Many thanks to Pascal Chauvaux for this fine report on what is going on in Europe. (Pascal, please send more after the final two contests take place.)

What? Another record? Come-on Wayne, let somebody else throw long distance once in a while. This time we are up to 660 feet three inches (201.24 meters). This out-of-sight cast was made by Guinness record holder, Wayne Brian of Mesa, Arizona, and eclipsed his previous official world record by over 43 feet. This witnessed world record throw was made September 16th, 1993 at the Rabbitstick Rendezvous in Rexburg, Idaho. Witnesses were Wayne Pedigo, Gina L. Bigley, Matthew R. Cummings, and WAA member Albert Abril.

Another record Wayne has established is a distance throw with all primitive equipment. No fiberglass, aluminum or other modern materials were used in construction of either the spear or the thrower. This cast of 581 feet 4 inches (177.19 meters) was made on June 10, 1994 before two World Atlatl Association witnesses, Leni Clubb and Hallie Cash. A dead calm had come over Fremont Indian State Park, Sevier, Utah when Wayne made this slightly uphill throw. The above figures are being submitted to Guinness.

Colorado Archaeological Society Encampment

By Bill Tate and Leni Clubb

This year's event was at Radium, Colorado, a mere dot on the map, but a magnificent camping spot along the upper Colorado River. Events included rafting on the River, a great talk on Early Man in the New World by Dr. Jim Dixon, Curator Anthropology at The Denver Museum of Natural History, entertainment by Cowboy poet and singer, Bob May, a chuck wagon barbecue, and a pancake breakfast. WAA officers, Leni Clubb and Tim Boucher spent one afternoon teaching a class on making pine needle baskets.

Weather made things uncomfortable in the evenings with gusty winds and thunderstorms, but approximately 75 hardy souls attended this most enjoyable July 2, 3 and 4 weekend outing.

Of course the World Atlatl Association held its annual business meeting, the only "work" done on this fun only holiday weekend. Among the business covered, was acceptance of the WAA Safety Rules printed elsewhere in this issue. Space permitting, we will have a complete report on that meeting in October.

For some thirty or so attendees, the big event of the weekend was the atlatl contest. Results follow:

	UNDER 16	WOMEN	MEN
1st	Joey Callaway	Chris Judson	George Stewart
2nd	John Bennett	Heidi Daetwyler	Tim Boucher
3rd	Nathan Potter	Leni Clubb	Bill Tate



L TO R TIM BOUCHER, JOEY CALLAWAY, LENI CLUBB, GEORGE STEWART, NATHAN POTTER, HEIDI DAETWYLER, CHRIS JUDSON, JOHN BENNETT, AND BILL TATE



"COWBOY PLAYING INDIAN"
After a few minutes instruction, cowboy poet, Bill May, shows good form with the atlatl.

The "Greatest Honor" Award once again went to George Stewart.

In the "free-for-all" contest (modern and primitive equipment mixed) the winners were: John Bennett (Under 16), Heidi Daetwyler (Women) and Paul Leininger (Men).

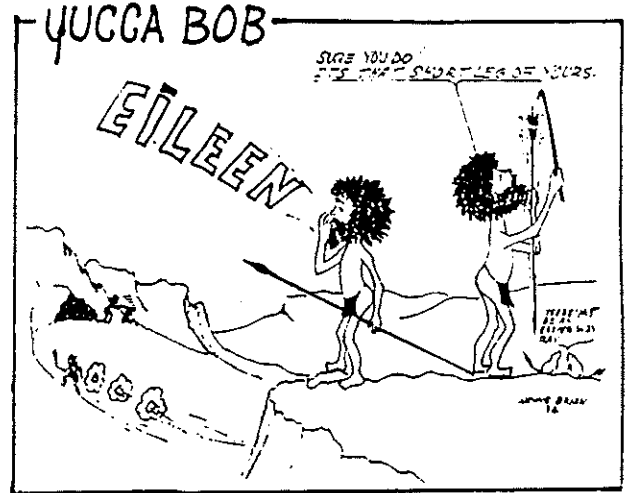
A special award was presented to Tim Boucher, WAA Director and past President, for extraordinary service at all nine Encampment events. Only three such awards have been presented previously. They went to Ada Jackson, Bill Tate, and Leni Clubb.

TELL A FRIEND ABOUT W. A. A.

We hear as this newsletter is going to "press" that Lorenz W. Bruechert, the author of an 800 reference bibliography on spearthrowers from North, South and Central America, Europe and Australia, will not be available during early August 1994. He is to be married on the 6th and will be honeymooning somewhere on the northwest coast of Canada. Our best wishes to you.

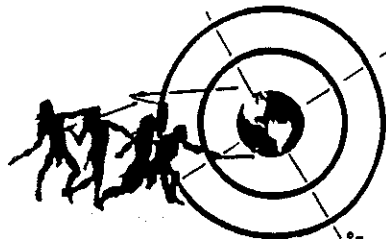
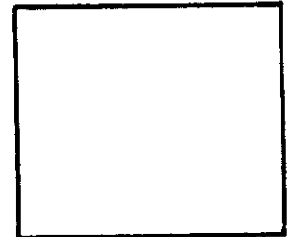
tographs, cartoons, etc., are always welcome. Should you have suggestions, comments or printable material please address them to: THE ATLATL, 1390 S. Paris Court, Aurora, Colorado 80012, USA.

Many thanks to all who contributed to this newsletter. Remember it is your newsletter and articles, pho-



WAA MEMBERSHIP IS STILL JUST \$10.00 PER YEAR... SEND ALL INQUIRIES AND MEMBERSHIP DUES TO THE WORLD ATLATL ASSOCIATION SECRETARY:

LENI CLUBB
P. O. BOX 56
OCOTILLO, CA 92259 USA



The WORLD ATLATL ASSOCIATION, Inc.

