3 Wheat Red 9 hafted and shaft in such a ma palarse outris sait of their - some analysis of the wear pattern of the thing itself might indicate that it was hafted Bardes Something like the Allow points in the Upper Paleo. in France. That could well be Big fishes. Smith. Marie, You might take a look a stop some things oasis in Egypt so called Neolithic, eccave inverted arch concare and also .Cargo Somewhat remininscent of the ... matched doubleflakes ... retouch ... although not precisely. Warmington Then this brings us to the # Elinga material from Ecadore. This is material sent by Myer Oaks and Hell as I am sure you are aware the points that are found with this have a shape like a Fellscave Point but are almost invariably fluted. Myer Oaks and Bill are relunctant for some reason to use the term blade and do not wish to call these blades. And it & certainly seems to me that they are blades. I would like comments on this. They have also identified some of theme objects as burins, and I think that they would be very interested in yours comments as to whether they are burins, and are they blades. e. 25. 2.5 Bundes; Well; Bordes speaking. There is no question that this is a blade. If that is

not a blades, I don't know what a blade is.

Warmington That's my feeling too.

Bander And you have a burin on this riggd blade, which is a preparation. And as for

(24)

burins I can see at least two beautiful ones. Here is a nice burin on the $\frac{d}{d}$ concave persussion on this side. There is another burin on the convex on the other side of the same tool. A double burin. This one except that it is in obsidian could belong to the Upper Paleo. culture in France. This one also Truncoletis One is No. And they are all over. is a nice burin concave percussion. double the other is single . That is also a burin on a pot/shert / further lineThat's also a type well known here. Let's see. That's just a blade. That is purfully a burin spall, no question. I am not sure, but it can well be one, yes. Yes, that's one. That's one burin on the concave percussion. This one is not so good but it is not s so easy to make burins in flint ! No, that's just a blades, I think. Worminghen Looks like Scams cave. By That probably is another one. Here is one broken . Broken but that was one. That's a blade. Let me see. If you ppt them back again at the same time I take them off, we can do that way for a very long time. That's a life of blade too. That's a burin spall, I think. A No. no. That's a blade , yes. And that. big burin spall. What's this. B'Could be one too.

Amin There are a variety of dates.

Warmar The dates are running about.

9

9 3 But Yea. Survey We prefere the date of 6000 B. C. andes And what of use is this? Barles Younger. PhilSmith And older, the obsidian dates are older. They are around 11,000 . Br That could be a burin spall. That just and inverse truncation , philsmith Lenar Freezer Burden Plesse don't speak of this man. thick I speak of theman Frey Next we'll speak of Yes, I would say there are a lot of burins in hte there. Would you care to comment. Yes, you are specialist of the Upper Paleo, after all. madame But I am speaking for Gembier For this second tool he is thinking it is a prepared little like the noilli burins Allame This concation and size . Because of the flatness of the flake only of theik malances Yes. Bur And there is no notch. Oui. madame Bundes, but Cambie (Speak in French) Budes There is a lot of burins. malane Barles Yes.

This one, this burin spall is interesting because it shows a lot of preparation of the flake the blade before taking off the burin spall. And this very often has been mistaken for a tool. This is not a tool. Just a technical preparation.

4

Because just suppose I take this plade and I want to make a burin on it. Will I made a concation here. But if I leave this angle here, the burin will not go. I have to retouch , put it straight, like that. and then it is very easy to get the burin spall out., And prepare a burin. And it will give you this kind of burin spall with retouch which has been supposed by many pepple to be special type of tool. But it's just a technical trick.

madame Bur This as my husband said is just what you can by put in the preparation.

Bandard No question they are burins.

madame Bull It is quite Mell

9

Phied It is the first time, two such burins are found in the <u>Industry</u> Warmington The first that I know of.

We get them both with blades and without blades, sometimes just made on flakes.

I wonder if anyone would like to comment on possible methods of producing these

kinds of alades.

9

Confict Some percussion.

This is quite typical of percussion, of producing of the blades, you can see the compression there was almost no preparation . They left them very thick but you still get a great deal of compression. If you'll notice the little undulating lines one these. They appear to be flat on the surface and the cores would probably be quite conical when they had finished with this but they apparently used fairly thin tabular pieces in order to get the thickness of the blade with these single ridges but there is no regularity of form with this sort of thing on here, or more indiscriminate percussion for a certain purpose they did desire apparently these thick blades so they would have to have a quite narrow core in order to produce this particular type of a tool. Anny Irving speaking. I had occasion to look over Myer-Oakes surface collection of the at one time. I looked thru a good protion of it, and I didn't see anything that reminded me of a blade core. Many many burins have a great variety of shapes but nothing that I would call a blade core. Now, I am not sure how that scores with the identification of these as blades. Could many of them be, perhaps burin spalls, or

5

is this getting too technical?

a very narrow tabular form of obsidian, and they would have been utilized . New I

doubt very much whether a core would be present in order to accomplish this type of

a very thick blade. This may be the last of the core. The one that Dr. Bordes has may be the last of the core . remove a here. So you would go to the end of the thick tabular flake in order to argange to get "thickness from a cylindrical rectangular core, it wouldn't be possible with anything that could be determined as a core, to get this type of flakes. It must be a very thin flake \$ to get this thickness if there is going to be a repetition of this sort of flake. So the thick tabular flake would have been utilized to produce these so it would be hardly identifiable as a floke when they had completed utilizing what material they had on hadda. That would be my feeling of this type of a blade technique and it is certainly a blade technique that they did use. That would seem to explain it. Thank you. Budes There is no question that is a blade technique. There is a preparation of the side of the core. Crabtier Yes. Bow There is no question about it. But now perhaps they went on and on until the core was just finished and then may be their burins. analytic Dr. Bordes, there seems to be no regularity of any preparation on any of the ends of detaching these. This by percussion is to take these and follow these mids this type and to heavy ridges in order to get the thickness Afflahles. Barles It is not a very good blade technique, but it is a blade technique all right. material . The plane might go down or something.

Mad / Madame. Bo(in French)

Wirffor There are points with the shape of the Fellscave. Could someone get one of the Fellscave cast? But also fluted, and there are, I believe a variety of side scrapers and J think, some end scrapers, but I have not seen the full assembadge.

7

Irving speaking. (in French)

Bouded the, fishes. Wounded the fishes.

in association with this we have the same shape, but fluted.

B This one is perhaps, I am not sure.

Wormengton Well there is basal thinning on the Fellscave material but on the Elinga material,

there is real fluting.

Bordes That's cast.

to compares lembtred This one here, Marie sat said that the style of this was entirely woong but

it was just a.slight thing to demonstrate how, from a stemmed projectile point , the

thinning was done on either side, which shouldn't be confused with the Elinga material

because the form is entirely wrang

Wormingfor That is a type of fluting.

forubtue Marie, well you would know better/ than I because I have never seen this

material.

Whenmengton Well, I guess that wraps it up.

Who is presenting that? Ok let him speak and speak clearly. Irwin speaking. The collection that is in fromt of Bordes, Tixier, and Crabtree is all from the site of Helgap, earliest date on this site is 9000 B. C. The st date on the horizon that is represented here is 7000 B. C. latter industries. I brought collections, not necessarily representative in term of statistical counts , this collection is largely aimed around the formation of projectile points. You get this conner. These are blanks. chare mike trouble here Budep What is this? , elrove alunia (Where's the hot spot. I don't know. Hold it at the top. Now these tools on the collection in general is fairly representative of what we term Paleo-Indian. At least in the correspond with three Plains area of the U.S. I think many of the types of course found in Eastern U.S. which I am not very familiar , see these end scrapers , which are statisically not too numerous, the side scrapers which are numerous,. The teehnelig- technology ' I start on this end, you have these large cores and these cores resemble in some small fashion/Levallois cores . If you could consider them Levallois cores, they really aren't very classic. There are large flakes which are also elassifide typologically levallois flakes. I brought one here. There is a little faceting

on the butte here. Notice that this platform is ground., before the removal, this

is an extemely characteristic aspect of the Paleo-Indian technology. This flake is levallois, but as I aay, the technique, if you want to call it levallois, is sloppy. The blades in addition which occur are not a good as the blades from the Clovis They also are sloppy, there are some here. And they were probably removed horizon. from cores such as this one that I have there. There's another core here. They would, as Don says, probably follow down with the percussion stroke down a ridge and they would retouch these blades and/ into side scrapers and retouched blades. Also they would like to produce large wide flakes which they could make into side scrapers and things. There are some tools on the end here which are rather interesting and characteristic of only one of the horizons. These, as I said, these horizons are mixed. This goes thru a number of so called Paleo Indian groups even Scotts Bluff what use to be called Angusturia, agate basin , midland , hellgan, "complex called Alberta and the projectile points from these, $f\phi$ some of them are found in this contel/ corner. Now more interesting that the projectile points somewheres are the beginning stages of the projectile points which you can see up in this corner These are blanks from agate basin points, that were broken with here . Here this great long thing is a blank for an eden point and it was an ambitious project. I think it belongs to eden points, and the record is about $\frac{1}{2}$ 9 1/2 inches. This would have been 11 if he, well presume may be he would have gone down only 100. if he had peeled it form gone down a little bit. We found the flakes which have been

9

technology of it. One of these and a great problem of the American

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10

is distinguishing between things which were cutting implements, i.e, knives, Ι brought two or three pieces which were probably knives in this conrer, and things which are blanks or unfinished points, such as this piece right here . This was probably going to be an agate base point. It's a bad piece of stone; there is a hole in it here. This isn't very good. So apparently they just didn't finish it. Here are two with complete points which would have been made from this form here . Here are other things which are commonly called knives, which were probably pre forms. Here is a pre form for one of these points here . You can see. Apparently he broke it before he did the final touch. Again this indicates the progression of the technology up to the point that it was almost all percussion. Some of the work from this point on was pressure. Now this point, here is interesting from Don's point of view. This would have been a obliquely flaked point . They normally are. He was trying to turn his flakes a hore in kind of goofed. And he never got them quilt around in the right angle. He got started on the woong pattern and was never able to straighten out and also he broke it mid stream. Here is an eden point. This has diamond shapped cross section. This also was broken in the manufacture. You can etasee the stage which is prior to the small edge retouch which characterizes most eden points. Some of these things.

Bandle That's quite normal. There it has been heated.

Uniter The scrappes are interesting because you have these generally rather short

scrapers . They are also characteristic of everything from Lendenmyer down. You have the kind with a corner on it which is not quite one of these little spurs but 0 it ranges with something with no spurs with something with distinct spurs which is Dam not quille some. probably functional, about this particular one. There is one over here with a little spur. Often inside the little spur, although not in this one, you will have a little flaking where they apparently did some of the σ/k work on the plain face. And quite frequently you get a little notch \cancel{p} lower down in the scraper. This tool here is also characteristic of Paleo-Indian. Apparently both East and West, Cod had one of these things " Quite frequently you only get the single notch in here you get a double notch which makes it like a strangle blade and frequently this is broken giving the people a mistake for a drill . In fact it really isn't . These little things here are so called graving tips. I think that if Byers has any of the Bulbrook stuff here, he will find that the distance between these two little points is rather similar. I dn't know precisely why it is true, also # of Lindenmyer alt that y measuring the distance between these points. They seem to run about the same length or the same width. I don't know why. Here is another so called knife. You B# 4.15 can see that it is nicely finished but not a blank for a point or anything. Here is a rather large end scraper . Large Earge end scrapers are rather rare in Paleo-Indian , although apparently not in the East, at least in the West they are fairly rare. Over here are the retouched blades, and these things, which I think I showed earlier , I don't know what they really are, they are finished tools, they're not blanks

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usetedge They're not material that they bring back from the quarry. Some show nice retouch. I guess that is a good summary, unless you have further questions. I can, if anyone wants to know, point out the exact type of each one of these points later on that might be of interest. Oh, notice this burin on this projectile point. I think that there are two possibilities, one is impact, and quite frequently you get a impact fracture, I have not made an experiemnth, largely because I have never had enough points to do this, although I've used some Archaic things to drive into the wall ot see what kind of fracture you get, but this one I think was actually pounded on the for as you see the ward top, and this burin was cause d by this pounding quite a bit of pressure on the edge. May be this is something similar to the piex escaier that Byers μ But it's not yet. I think that pretty well summarizes gheral general collection. There are a couple of cores; these cores are typical. Some cores of eours appear in larger quanities. One problem with Paleo-Indian site and this includes the Lindenmyer site, is that most of the work done at the quarry which is often some distance from the site. We do not get very large cores in the quarry . You can see. In the site itself, the quarries which we have been trying to investigate, which are a little hard to investigate are quite numberous , and I think is true of Lindenmyer So we don't know really what most of the larger cores look like. You want to say something.

Oh, well, I can try to say something. Bordes speaking. Well, that's a beat if il array of material, you have here. With a lot of different kinds of points. I won't try

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9 to remember all the names. I can't. That is out of my horizon. But things which are interesting . This is a scraper of some kind and this be big thing About that you wouldn't know what they are . Well they can be tools by themselves. Kind of knives or lame leaf streethen & land leaf But you know really, how you say, is just this unfinished stuff. Even if it could have been used like that , I would te to say that this was the first stage of that. And that the; definitive of this point should have been about this width and this length, so it could well be that this is derived from that. That being the first stage. Then this one was but also protably once a large one which is booken, also finished would have been much smaller. we do get ocassional pieces of this kind which have been fund to be retouched at the edge. To presumeably make a autting edge which is why Henry thought they might be knives. Annum Well, if you look at the edg here, there is quite a bit. The touch Purdeg That is not retouch. No. no. no. That is just some kind of rough of the edge before striking new blows. That is not clearly some special retouch. Barden I won't say they are not bigger, but knives that is quite possible, but they speak of this one. This one strikes me as . They mercussion of smaller things And well the blades, oh well, they are blades, not very good, and they like that. were always struck from this kind flat blade core which is more like the levallois

Hade core but can give you perfectly good

San the blade core in the Upper Paleo which is more alike than any other blade core, but

can give you perfectly good blades sometimes as long as that . And then your flakes here, some are levallois like, not very good levallois, but they are. Oh, this one

was burnt. That's a typical fracture of heating

Heating

bouded That's quite typical

Heattreating.

Budes They tried to heat it and busnhit - its happened

Yes, that's a nice side scraper. That's a nice flake from making an d mixing like that. No question. Typical with this

lowing Ground edge.

Budes Oh, no, not so much ground this lip.

Onver Yes, it is prepared but also notice that $\frac{1}{1/15}$ this platform has been exposed.

Bardes Oh, I am not sure. It can be smashed just like that. With some blows with something

Thisa....

Bardas That you could find in the Sudan

I don't thinkg there

is anything very speicial about it. Lot of side scrapers. Nice ones, beautiful ones.

Yea, this also. That's a kind of bifacial side scraper, perhaps . That also mice

No, no, no.

9 15 Annen There is one maybe. Bono. no, Not here in this material. Source Could be . Side scraper on a blade, a retouch blade, like it. Not this one, but Whave seen. it ya this is and End scraper on the notching. It's a kind of composite scraper with convex (1 concave. Always small multiple bores like in the Lower Magdaleanean. This one has a price (spine) Spine. Border That's one of these crazy things. Ommen Dr. Bordes, look at this, called the cutting edge. This has the same shape and generally classified as both knives. This is probably an unfinished point , and this a putting tool, Burtes yaya but you want to be optimicles Owen Sometimes they are studpid. Burdes Americans are optimistic. This one you know, is a funny thing. It looks very bifacial seaper , small ones which are leaf shaped with this much like a big flak flake on one side. Of course, here there is some pressure retouch, that you would not find in a scraper , but from this side it could very well come either from some conical core or some Kulturein Germany or from early Mousterian in...

k6 Wormingling Some Hungarian material. Bordes Hungarian-not quite. Not quite. It's more you know, like the Solitrean or the Sylindral But this is quite thindral one side the just thin but there is no typy try to make it regular .shape. That is only one edge which 1/2/ interested them. That's beautiful a end scraper with . End scraper , not a knife it is not cutyying on the other edge, but it's rather beliquely retouch. What else. I will not get. Oh, yes. You see it seems that eh/ the Americans are already infected with Mass production They have a lot of plans and blanks and plands, blanky blanks. That's a thing which does not occur in France. in Solitrean. Tither they finished a tool, or they worked it , that throw it away. But very seldom we find Blanks. That is an half - finished tools . These are mostly broken let me point out. Burles This one is broken yes. WE simply found both pieces. Bardes That borkens piece Durch You can see for instance on this one they got to the stage where it hit this imperfection . Buck No, but what I mean is that very often in American - I have ready in American publications that very often you find a cache of blanks so that, too many of them have never been found in France. I think it probably reflect a difference in social situation of the tribe

17 Could well be. A concentration of wealth. You know there are two interesting differences. There is this blank di and there is your queries different from Camping Site In France, I don't know, I never have seem seomthing that would qualify as a quarry site , distinct from a decomposition site. And that's one of the big difference, I hhink, between the Busseperand the American Paleo. They quite often are quite distinct. If the quarry sites is locally for instance, you can turn over several hundred thousand flakes and other find finished tools. If it is a finished tool it often is a very late finished bool from Tepee period Indians Yea, but that is not the case with us. Well that is about all I have to say hat. Probably when Crabtree has pointed out to me what is obvious perhaps I will say well I really agree, I agree. for the No, but this is the wide array of different manifacturing techniques most anything. I know it st/4## starts in with cores with several different 3different platform preferations techniques in blade detachments and there are three here we notice the very fine small platerion at the top. This is not as large as a grain of wheat yet if you take this lafer This ange all off, at shows a great deal of control in preparation to remove this much material This shows another side of the edge. There are the quartz These two of on the . the quartz show that palish on the edge, Dr. Bordes , on this one here and apparently

k8 9 these on this, but 3 of this show this the others looks like they are crushing the flat platform and then getting away from that. We have side struck flakes on the cores. We have have the trimming flakes, as Dr. Bordes indicated . There is one that is a little unique to have turned it up on one edge and utilized the ridge in order to give it this conformity, and these are not too uncommon. This sort the having distationd because portion because hing with a wide underneath where they don't want the narrow becaused in the center. But it makes a very ideal k-the scraper, er at the edge at the where this has been slightly retouched and their thinning techniques are very superb; / their control of thinning there where they took advantage of the step the step and the hinge fracture makere. This one the a nice h step fracture completely it in the center Hohee in from the side to meet in the center the solutions here. Straring-to- Starting to get a very thin blade the solution sort of thing the and coming on this side. This one was an example of one that I was trying to find This morning , but me couldn'thing at but we didn't happen to have it, with a beutiful silutrian should -pei- shoulder point This is a very typical technique used with that, however, their floking this morning. was a little more direct without so much of the angle of the but the spacing seems to be same sa s as the one Dr. Tixier showed me this morning. This one here, I'll go a little fast so that we can utlize as much time on here. They seem to be the collateral flakes that Cynthia , Henry and I were discussing, this type of spacing endere, using a complete flake rather than following ridges and yet keeping wonderful control on the edge. This one had apparently been retouched as a

19 9 knife, particularly on the one side, all from one side to give it a cutting plane liekik/---, ii like this so-we-have-lost and then redulled again so we have lost a lot of the character of the edge, and it looks like a reutilized binder biface, or knife, or something like that. Evidence of heat treatment in this partiuclar one these are quite characteristic from to be these little sort of thing her the Lindenmyer site of these, quartzites and wariety of materials show quite a range in diversification of utilization of material with these / the flaking characterthe flake characlerestics h are hardly identifiable, istics are very much the same . With the quartzite characteristics. They lose many of their features with while The place they are fairly obvious with the flint. You'll notice the sharp deep indentations all the way thru in most of the examples in the say that they have set their that they have set their tools to get a deep enough flake so that they can polish pop in off and they will feather Almost no hinge fractures in any of these particular pieces. This one is a out. is type flaking, but by the nature of that the material, there superb example of the is admost no detail 🗩 show n 🖉. It looks almost like it was ground and polished out. You then edge wise on the light and you still have this same character but a longer narrower flake, but they still don't appear to be a parallel flake type, with very Men little slant, They are and the directly inward, towards the sedges. This the I din't see here instead of being booken here, and the control of the quartzite is very wonderful. This instead of like this quartzite on here shows a little different preparation this side with the basal polishing of this, but the well defined bulbs

9 20 of this one here, showing the last row of alke- flakes that were detached . These flakes prevent preshing the tip of the have a slight slant to brotech comi to obvious on This the bud 1 that side for point characteristics backwards and inwards aftay This particular one like that. The rest, I guess these are some from the Phiese of the Alberta style. Two of these up at the top but there is not a with being diagnostic other than this one h hend shot when they missed somebody and hit a rock but it apparently 1 In that particular case. I'll turn it over being a projectile point. evident' I can say on the to somebody else, I think that's all the flint working to be than it is beautiful array of many different things represented in this collection. Warmen What about this one? It appears to be a percussion pre form, tabular piece of stone which would take instead of it being, a single blade . It's done by the core method of producing this on here from a tabular form of material and it is most certainly a pre form, or it hasn't been retired, but the spacing the the regularity thing the spacing of these very wide inward flakes. it is a preform same indication but instead of using the ridge, eaching one is a separate flake along g this for a parallel flake, and it might be interesting that parallel and there is no would be flakes with straight sides . These have rounded sides or, what flaking would you say, convexity, to them Hike that.

Cynthia Irwin Williams . I wonder if you would like to comment just from a punely technological point of view , how do you think for the first thing, those blades would have been produced? By what technique? That is rather dasy to do. As Crabtree pointed out there seems to have been several different techniques, but you know the efferiments have show me that it is very difficult sometime to make a distinction between one technqie and the other. For instance, this I would say was a wood billet is something else drum Before this congress. By But this morning I took a beautiful B/2/ke blade with a punch technique. And I got exactly that. admit It could be punch technique. Bandles Could be. One thing is definite; it is not stone struck. Phile Right. Bordes That is a different thing , Something. That is not stone struck . Omicin We, sur comment on that we find no \$1 hammer stones. Bondo Never on an anivil. Anvils might be. never on an anvil. I will tell you something even in the culture in France where we know a lot of stone struck stuff, very seldom we found the stone hammers . With Yea, well I think we would have to examine the flakes plus the hammer stones.

Bivery probably some of the broke or was quest to eron out. They just throw away theing. Mousterian or let us say Folsom I might add, speaking of primitive psychology from the gentleman who was trying this large eden point here, we found the flakes which fitted on to this thing and he didn't throw it very far, so it indicated that he didn't feel in two bad a temper about having it. break Burdes How much far away was it? V Quere Oh, about 6 feet. Bordes Six feet, that' always something you know. I could be made with stone. Constitute it, Cynthia, I was trying to replicate the character! I'm missing it. I'm getting of choser but it is still not characteristic held yet if the were going to make a pre form on the for fluting purposes but the difference is the wide flakes on this sort of thing in here . It is a little narrower, but I am producing these deep bulbs in spacing this so that you leave the little triangularportions at the top spacing this sort of thing like that. There were later removed have sometimes they weren't., Then they would alternate against the heavy side on the opposite side but unless you have a reference it is hard to remember on that side delail of the eage character Burd How did you do it , Don? Comble, Just with pressure, but I give it a thick bit with the Fake, fast on

But Shot was all right.

leveltier and I have tried to change technqieus, working tone so I ruined everything

for awhile bending them, and I din't want them to bend.. It's very difficult to them, and I din't want them to bend.. It's very difficult to the full of the set of the different styles.

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Burdes, It's difficult to make one technique. Well, about this burin, you know.

I don't think it is very, it is not your break. I think that possibly it was broken Triedor

and they did a kind of burin blow there. Was i it to make a burin or was it t $\phi/$

just because they wanted to take a small lamelle thing like that - I don't know. Technically, it can be called a burin. If it is only one . with full we well,

There are no burins except they are a minor tenth of 1 percent

of burins on breaks which are probably accidental.

Bondes Ah, you never can tell.

Epstein." To move it along here I think you, at least the result of this conversation

you think that all bifaces can be broken down into 2 catagories, and you are

destroying Am. archaeology. They are either blanks, or they are finished products.

can I'm very much concerned as to how you, make this judgement so surely.

Irwin's peaking. If you are making a biface , it's either a blank or a finished

product, eventially, somewhere in between.

Epstein wonder.

Grathin I'm very much concerned about why, I think as Dr. Bordes would say, this is probably a blank . In other words , there seems to be something going on over here as to certain kind of judgement if I understand it right now it seems to me that if it doesn't have pressure fine pressure flaking it is a blank. alrigh No. Eastern I ask for clarification on this. Bardes The thing is, the thing for which I think this is seems unfinished is that first that it looks unfinished . Nothing would be easier to get a straight edge, here very easy. No trouble, it takes about two minutes and then on the other hand, you know if there was only this, but you have things like this one which is much more ... Well that about .all I get when I am making a hurr leaf and somebody disturbe me before I am finished and I put it somewhere to pick it up when I have time, that's about the shape it was fize, and the weight is down , the amount of finishing of the edge and so on. Well, perhaps after all these blanks would finish as tools; I don't know, but when we call things scrapers after allwe/ we don't know if they were doing any scraping. They were perhaps cutting, who can tell. Till some time machine is invented , we must try to study the thing by classifying them as well as we can and giving them names .

We have to give them functional names Dr. Bordes.

B Oh, well. functional ----

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