

Episodes/

Beginnings: (1) Battelle/Doris Scott/Crabtree & "Flint-Knapping"; Recalling rudimentary Indian Lore & the "Indian Tomahawk" that served g'mther as a door stop. (Where is it now?)

* (2) How sharp is ^{a knife} sharp? ^{From Field} ^{to Hospital} ^{surgens} Tawidermy, with obsidian knives ~~to human~~

~~surgery with~~
30 years
(3) ^{From Jr. college dropout} ~~after a month~~ ^{to} ^{Archaeological} ^{Doctor of Science} ~~Honoris Causa~~ ^{Honoris Causa} and one of the few experimental archeologists

(4) Heat-treated flint & its working

(5) Idaho / Twin Falls / Incidence of millionaires /

Snake River Gold & Fossils

(6) The Snake River has shaped (shapes) land & people: indian and white!

(7) An environmental effect: the high incidence of millionaires and the spirit of free enterprise?

5/15/6
A

~~It has been several weeks ^{now} since his patient ~~was~~ ^{underwent} ^{successful} surgery ~~for~~ ^{are excitedly} for a blood clot in his lung both the patient and his surgeon ~~inspired~~ ^{inspired} in the ^{bandage} ~~removal~~ ^{to} witness the healed surgical wound~~

~~If you were a ~~surgied~~ patient just recovering from~~
The long bandage ^{at} ~~enveloping~~ ^{the} ~~right~~ ^{chest} ~~shoulder~~ ^{of} ~~and~~ ^{Don} ~~Crabtree~~
has been removed ^{to} ~~reveal~~ ^{the} ~~at~~ ^{now} ~~of~~ ^{and} ~~revealing~~ ^{scars} ~~of~~ ^{surgery} ~~that~~ ^{removed} ~~a~~ ^{blood} ~~clot~~ ^{from} ~~the~~ ^{lung}. The ^{normal} ~~scar~~ ^{resulting} ~~extends~~ ^{from} ~~high~~ ^{removal} ~~on~~ ^{of} ~~the~~ ^{back} ~~behind~~ ^{the} ~~offended~~ ^{lung} ~~hing~~ ^{down} ~~under~~ ^{the} ~~arm~~ ^{and} ~~back~~ ^{up} ~~in~~ ^{front} ~~of~~ ^{it}. ~~Approximately~~ ^{the} ~~rear~~ ^{half} ~~of~~ ^{this} ~~scar~~ ^{is} ~~a~~ ^{typical} ~~scar~~ ^{: about} ~~an~~ ^{an} ~~eighth~~ ^{inch} ~~wide~~, looking like "lightly tanned leather" ^{and} ~~periodically~~ ^{bounded} ~~by~~ ^{pairs} ~~of~~ ^{of} "eighth-inch" leather-like buttons: from the suturing. This part of the surgery came from using a normal surgeon's scalpel. The front half's ^{scar} ~~was~~ ^{scared} ~~scaredly~~ ^{as} ~~if~~ ^{it} ~~were~~ ^a ~~single~~ ^{pink} ~~thread~~ ^{sealed} ~~smoothly~~ ^{to} ~~the~~ ^{skin}.

~~but~~ ^{periodically} ~~bounded~~ ^{by} ~~by~~ ^{pairs} ~~of~~ ^{of} ~~eighth~~ ^{inch} ~~leather-like~~ buttons as on the rear half. This forward part of the surgery was made using an obsidian (volcanic glass) blade fashioned by the patient.

24.7.1

Donald Crabtree, using techniques ^{for which this high school graduate} is now ~~known~~ world-renowned among archeologists ^{and} ~~was~~ ^{recently received} an honorary Doctor of Science degree from the University of Idaho honoris causa.

For almost half his life Don Crabtree had been seeking ^{an} the answer to the question "How did ~~the~~ ^{the} Indians make their arrowheads?" Growing up in Indian country: Salmon, Idaho, he knew ²⁰⁰ an Indian named Jimmy Crow whose answer to the question was "Indian no make arrowhead, coyote make arrowhead, Indian find arrowhead." ~~He~~ ~~found~~ the very young Don Crabtree "found" his arrowheads by doing errands or chores for ~~his~~ ^{his} neighbors.

Moving to and growing up in Twin Falls brought Don under the influence of the Snake River, ~~and~~ its black, 500 foot deep canyon and the nearby ^{beautiful} Twin and Shoshone Falls ~~near~~ ^{near} which was ~~the~~ combined former treasure trove for placer gold and ~~various~~ ^{preserved} fossil bones of mammoth, saber-toothed tiger, and the tiny horse, eohippus. After school Don usually had chores on his ³⁰⁰ father's farm - as well as on the weekends, but somehow Don put in much time in the river wall debris --- always in hope of finding an arrowhead buried in some prehistoric animals bones - but it never happened tho he did find mammoth ~~saber~~ ^{animal} ⁴⁷ his share of prehistoric bones.

This ~~expanded~~ ^{excitingly active} view of the world was counter balanced by the fairly strict and arduous demands of his father; and ~~he~~ ~~was~~ ~~the~~ ~~boy~~ of the Crabtree's three children. The disciplines of both produced a young man who had manual ^{top} skills and exciting intellectual goals, but brief exposure to college proved the manual skills more dominant.

He may have had some vague master plan, but over ~~the~~ ^{his last} forty years ~~his~~ ~~attention~~ was on the present and the ~~near~~ ^{near} future - the distant future seemed to take care of itself. So it is not surprising to find that he worked diligently at flint knapping, collecting minerals, cutting and polishing semi-precious stones, ~~as well~~ ^{setting} as diamonds,

and making a living including employment
making jewelry, collecting fossils, working at a myriad of jobs, at the
Idaho Power Co., Bethlehem Steels Shipyards, operating a motel, and for
awhile as an agricultural agent for the U.S. Dept. of Agriculture before a ^{500 massive} heart attack
cut him down.

At about the same time the nearly life-long work on ^{simulating} Indian artifacts
was ~~the~~ ^{most significantly} recognized by ~~his~~ ^{his} appointment to the Museum staff at the Idaho
State University. ~~There~~ ^{there was} The archeological staff ~~was~~ ^{publish the records} commissioned to ~~write~~
~~papers for the~~ ~~professionally journals covering the range of~~ ^{his} Don's activities, ideas, and conclusions.
in appropriate scientific journals.

Other archeologists ^{on Indian artifact} ~~the~~ ^{simultaneously} were planning a meeting to
occur in France. ~~to bring interested archeologists and~~ ^{significantly} ~~most~~ ^{unusually}
it was to bring ^{Don} the "amateur archeologist" and flint-knapper ~~and~~ ^{with} his ^{extensive} knowledge of
New World Indian artifacts into head-on contact with France's U. of
Bordeaux Professor of Archeology, Francois Bordes the widely-known European
flint-knapper and expert on old World Indian artifacts — and
this was to occur ^{near} ~~at~~ the site of the fabulous Caves de Lascaux at
Les Eyzies, France!

This and the publications made Don world-reknown ~~in this field~~ and
caused a beaver path ^{to his home in Idaho to appear from} ~~from many parts of the civilized world~~ Canada, Australia,
Great Britain, France and all parts of the U.S. Gents came pouring for him
to visit "digs" in France, Belize, Mexico, and many, many places in the U.S.

Unfortunately, the ~~stroke~~ ⁷⁰⁰ heart attack was only the first of an
unending series of biological set-backs suffered by him and his wife.
Cancer had "hit" Don in the 30's — his wife, Evelyn, was hit by it in the 70's
and hers took her in just a few years. Don's had seemingly been cured by Co.
radiation but this proved to merely exchange the cancer for a blood
condition that prevented the blood from clotting. This ^{hemophilic} condition worsened with
age and required ^{increasing} ~~more frequent~~ ^{surgical} ~~hospital~~ and drug therapy. The former when
blood clots formed, the ~~severity~~ ^{finally} Don recognized the hazard of ~~showing~~ ^{possibility} ~~to his~~
later to try to optimize the blood's coagulability.

8.25.14.43

II cont.

were raided by a bear. Notifying the state police of this resulted in their sending a policeman who was to hunt the bear down - and he did. It turned out that he was also a taxidermist and prepared to skin the animal on the spot.

Don persuaded him to try the skinning with some knives that he had made and provided ^{with} handles. The result was that instead of the job taking three hours it took about an hour and a half.

Approaches to numerous ~~doctors~~ ^{surgeons}: cosmetic, eye and other types ^{showed them to be} ~~of surgeons~~ ^{were} uninterested or skeptical of the hazards of ~~best or contemplated~~ surgery with such tools. One of the surgeons approached was Don's own surgeon who had operated on him to remove blood clots so many times. He, too, was skeptical for quite awhile, but finally agreed to use such a knife for a part of the skin surgery involved in removing a clot from Don's lung.

Don said he ^{had been} ~~was~~ unable to assess the relative healing times of the two parts of the skin surgery. ~~It~~ ^{was} ^{had} ^{ever} ^{quicker} ^{appropriate} that the scalpel-incision healed to the usual tan ridge ^{scar} about one eighth of an inch wide while the stone knife-incision healed to appear as an almost invisible light pink line - as if it were a silk thread embedded flush into the skin.

The obvious hazard of a ⁸⁰⁰ cut causing him to bleed to death had led him to stop shaving ~~that~~ ^{sharply} it had no effect on his flint-knapping. This in spite of the fact that he often spent hours cutting himself on the sharp edges of the stone tools and chips he was producing - finishing such a stint of work with thoroughly bloody hands.

In a discussion about ten years ago ~~in which~~ the exuberance of youth still emanated ⁹⁰⁰ from his words and thoughts as he said "You know, I've cut myself thousands of times but I haven't a scar to show for it! There must be something about these edges that are ever-so-much sharper than even surgeon's scalpels. Do you know any surgeons who might try to use some of my knives?"

Don lived for about two years after this operation ~~and~~ was reasonably active ~~during those years~~ and ~~was~~ honored by many ~~in those years~~: elected ~~to~~ the Explorer's Club, ~~given~~ an honorary degree of Doctor of Science by the University of Idaho, asked to accompany numerous archeological expeditions ^{and} as well as ~~to~~ give many lectures and classes all over the continent. He knew his work was good but even tho experts described his ability in terms of "duplicating" primitive man's finest works: the Tolson ~~and~~, Clovis, Sandia and other projectile points, he ^{said} ~~would say that~~ he fell something short of that and was still trying to emulate certain ~~shaping~~ ^{shaping} of those primitive points that he'd never succeeded in doing... and he'd never succeeded in making 4000 blades ~~that~~ like the Mayans or Incans had.

6.24.14.14

II (named Don Crabtree) an "amateur" archeologist, jeweler, sculptor, rock-hound, jack-of-all-trades might have reformed this way to this story. ~~For~~ ^{for} ~~Don was~~ ^{Don's} throughout ~~his~~ ^{he had been} life, captive of ~~not~~ ^{not} by the search for the answer or answers to the question "How did the Indians make their arrowheads?" and ^{putting himself was seemingly an insignificant part of finding answers to the question.} ~~from~~ ^{cherfully} the age of seven to when he was forty-two he worked at many jobs was seriously injured, ~~struck by cancer and survived to suffer~~ ^{seriously was able to cope fully with a} ~~serious~~ heart attacks and, life as a hemophiliac. ~~But~~

None of this deterred his vigorous search for answers very long nor dampened his ~~enthusiasm~~ ^{zeal} for life and his search.

By the time he was thirty he had seemed to be able to make arrowheads as well as any Indians had - but not by his standards. At the age of fifty he was finally formally recognized by the archeological community ~~by~~ ^{with} its publishing extensive detailed accounts of his development of flint-knapping techniques. ^{almost twenty years later in the most significant} This was ~~all~~ ^{ultimately} ~~recognized~~ ^{recognized} about a year before his death when his native State's University of Idaho bestowed ^{on him} the degree of Doctor of Science. ~~Honoris causa.~~

~~Some~~ ^{and associates} of Don's students, in those final years not only applauded his work, but ^{treasured his friendship. A few have commended} some added that he was a ~~stuffy~~ ^{not only on his beautiful work but on his unselfishness, sloppiness} worker because he cut himself so frequently when fashioning an arrowhead or knife. The chips and the implement ~~both contributed~~ ^{let} to the carnage, but Don actually ignored it because he knew that these wounds always healed within minutes - and left no scars.

And so in his last five or years he became equally concerned about why such primitively made tools were not used in surgery because he was sure tissue damage and healing time were related --- and minimal with ~~such~~ ^{very} obsidian or glass blades which are much sharper than surgeon's scalpels.

One summer in Arizona he was teaching flint-knapping to some graduate students at a desert encampment when their camp good supplies

foot^{deep} walled canyon, the beautiful Twin and Shoshone Falls near which were immense slopes of crumbled canyon wall talus which had provided placer gold in the nineteenth century as well as remarkable fossil bones of mammoths and saber tooth tigers. Visits to this area always had to take second place to doing chores on his father's farm. To his last day he had hoped to find one of these fossil bones with an arrow or spearhead in it.

Of three children he was the only boy so the farm and his father demanded the development of manual skills, the natural and archeological richness of the area developed somewhat more intellectual interest but brief exposure to college proved to him that he was not slated to be a conventional scholar. His attention seemed to be on the present and the near future, and making an independent living ^{while still} pursuing such things as, ^{jewelry making and} flint-knapping when he could. From high school through ^{the} WWII period he worked for ^{a local jeweler,} the Idaho Power Co, Bethlehem Steel's Shipyard, and the U.S. Dept of Agriculture, operated a motel with his wife, did some farming ^{and then for the U.S. Dept. of Agriculture as a county agent.} ~~and sold real estate.~~ ^{On a part time basis he made} jewelry, learned diamond setting, stone cutting, collected flint, Indian, minerals and semi precious stones, and of course some flint knapping and fossil collecting. Occasionally, he ^{has been} able to work for awhile with some archeologists e.g., ^{as superior of the elaborate and unexcuseable lab} at the U. of Cal. Berkeley, or give a group of demonstrations as at the Ohio State Museum in Columbus, O. and ^{as an advisor at the University of Tennessee and at Smithsonian Institution to work on their Tolson point collection.} ~~He had briefly~~ ^{worked for the power company he was in an} accident ^{while} with a truck and the injury ^{to} him: the injured part later becoming cancerous though remitted by radiation treatment.

D. M. H. 4.5

115
317
228
660

How Sharp?

I The story is told of a ^{duel between two} medieval knight's one of whom was noted for his swordsmanship ~~who was challenged to a duel.~~
 In the ~~duel~~ ^{noted swordsman} The famous knight was seen to make a fast horizontal slash at his challenger that seemed to ~~miss.~~
 To challenger ^{who} immediately shouted "you missed," ~~but~~ ^{however,} the noted swordsman ~~knight~~ stepped back and said "Shake your head and you will see," and ~~surely~~ as the challenger shook his head it did indeed ~~topple~~ off.

~~And~~ Surely if a blade were ^{sufficiently strong} thin and sharp enough as well as ~~strong enough~~ and ^{was} moved fast enough the above could happen. ~~Indeed~~ It even seems reasonable to imagine that if the challenger ~~were to~~ ^{kept} immobile for awhile his wound would heal completely because so little real damage had been done to flesh and bone.

So Lon Crabtree was a high school graduate who grew up in Idaho's Snake River valley fascinated by everything around him. His favorite ^{hobbies} interests were indian arrowheads, minerals and fossils. Most of all he was concerned about how the indians had made their arrow and spearheads and so he spent a major part of his life trying to make these things by means that primitive men might have used.

At the age of thirty he had reached a ^{remarkable} level of virtuosity in chip-fashioning flint, glass, and even crystal quartz into beautiful traditional as well as fantastic arrowhead-like pieces. Though seldom working professionally at this his devotion to and skill in making these things did attract a few archeologists and resulted in a few minor university appointments... for he had no college degree.

As a result of ~~an~~ almost fatal ^{injuries in a} truck accident which produced cancer and later a rheumatoid condition he was unable to serve in the armed forces
 He worked for an electric power company, a ship-building company, as a jeweler, and finally as a county agent with the U.S. Dept. of Agriculture after the war