By cuspids!

Professor studies teeth to determine migratory patterns

By ROBERT C. RADCLIFFE National Geographic News Service

A man who judges people by their teeth believes he knows how Americans got where they are today.

By Americans, Dr. Christy G. Turner II means the Indians and Eskimos of the New World who were on hand for thousands of years when the first Europeans arrived.

Turner, whose investigations are the manufacture of the company of the compan

that he is on the track of finding that he is on the track of inding out where these earliest Americans came from — roughly somewhere in central Siberia and north China;
 that they moved from Asia to Alaska across the Bering Land Bridge by following the animals

example, he cites another trait: a tendency for some people — typical of northern Aslans, but unknown among people of European background — to have lower first molars with three roots, instead of two. His extensive research shows that 5 percent of all Indians also have this trait, those living today as well as those buried many thousands of years ago.

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The three-root ciue shows the Indians' ancestors came from Asia, he says, adding that he'll know where more specifically when he finds people somewhere in Asia with the same trait at the same 5 percent frequency.

In the same way, he hopes to find the original Asian homeland of Eskimos, who have a 40 percent frequency of this trait.

Turner says teeth provide about 250 clues of independent characteristics that have been passed through the generations by genes. He has concentrated on 28 major characteristics to watch for as he examines and categorizes the teeth of prehistoric and modern men alike.

itacking institution, associated instance, as the distribution of immi-grants, armed with bows and arrows, also crossed the bridge, just before the Ice Age glaciers melted enough to drown the bridge beneath rising oceans, about 10,000 to 12,000 years ago.

AND ALL OF this he surmises from teeth, by painstakingly exam-ining thousands of ancient and mod-ern teeth from the New World and

Asia.

Turner is a professor at Arizona
State University at Tempe and, in
the small fraternity of dental anthropologists, is one of the world's
foremost explorers of this kind of

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front teeth or incisors are markedly scooped out or "shoveled" in the mouths of Indians and moderately so with Eskimos. Europeans' teeth never are.

"This clearly shows that all the people of the New World had to more from north Asia, where shoveled teeth are also characteristic," and the people of the New World had to more from north Asia, where shoveled teeth are also characteristic, and the people of the New World had to more from the All the people of the New World had to more from the All the people of the New Horld had the people

Five cusps — Asians and American Indians always have five cusps (the little bumps or knobs on back grinding teeth) on their lower second molars. Most Europeans and people from southeast Asia have only four cusps.

they hunted (the Eskimos with harpoons seeking whales, seals, and other marine mammals along the shore, and the Indians with spars tracking mammoth, bison, and horse inland);

• that a third group of immigrants, armed with bows and arrows, also crossed the bridge, just before the Ice Age claciers made with the proper the Ice Age claciers melled betaled.

ON THE BASIS of what is known so far, Turner has come up with the following ideas of how the earliest Americans found their way to Alas-

Americans found their way to Alaska:

With the top of the world still
gripped by the Ice Age, a large icefree corridor existed, running northeast from the Lake Baykal region of
Siberia along the Lena River basin
and eventually to the grass-covered
Bering Land Bridge.

Turner speculates that Asian
ancestors of the Indians wandered
through this natural corridor hunting the large grass grazing animals
like bison, horse, and mammonth that
were their natural prey, crossing
the center of the bridge, which was
many hundreds of miles wide.

Another migration to the New
World probably began in Mongolia's
Amur River Valley, which also re
mained ice-free during the Ice Ages.
According to Turner's theory, ancestors of Eskimos — Amur River valley people today closely resumble

the little bumps or knobs on back grinding teeth) on their lower seem of molars. Most Europeans and peeple from southeast Asia have only four cusps.

TURNER SAYS he doesn't know of any adaptive value or purpose of these teeth differences or what triggered these gene mutations. He is convinced these traits are "quite slable evolutionarily." As an of Eskimos, suggesting they were the last of the land bridge immigrants.

U-M M.D.'s fellowship winners

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Michigan faculty members Hugh Deery, M.D., and Jesus Garcia-Sevilla, M.D., have been named the first recipients of the John G. Searle Fellowship in clinical pharmacology for their work with antibiotics and infectious disease and with mental depression.

The Searle Fellowship will of John Gideon in 1917 from the Universeant of John Common Macteria.

A U-M house officer will of John Gideon in 1917 from the Universeant of John Common Macteria.

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dent at the University of Southern California in Los Angeles in 1977-78. Dr. Garcia-Sevilla,

Dr. Garcia-Sevilia, working with Dr. Charles Smith, U-M professor of pharmacology, will continue research on the effects of antidepressant, antipsychotics, and nar-cotic antigenessants, antipsychotics, and nar-cotic antigenessants, antipsychotics, and nar-cotic antigenessants, antipsychotics, and nar-cotic antigenessants, and provided the control of the professor of the profess

Few traumas when teens leave home

When a child leaves home for college for the first time, it's more likely a normal transition than a trauma for parents, said a Michigan State University specilist in family and child relationships, year that the said of the parent child relationships of the separation stage, so it doesn't come as a shock to either side," said Dr. Lawrence B. Schlamberg, associate professor in the Department of Family and Child Sciences.

Parents and children generally agree on the need for a mutual cutting of the apron strings.
"The empty nest syndrome is not as widespread as we're often led to believe."
Although individual reactions vary, Schlamberg

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said parents may experience a very mild form of grief when their child moves away from home, especially if that child is their only or last one.

"Parents face a change in their routine, a change in their relationship with their child, and there may be some sadness connected with the passing of that relationship."

Fathers are less likely to experience a sense of loss than mothers.

"Traditionally, a woman's identity is more closely fused with childrearing than a man's, but this is changing as more women enter the work force." College students living away from home for the first time may notice a feeling of homesickness,

especially during orientation, but "by registration, they're usually concentrating on other things."

Parents not be overly concerned if they don't receive a letter or visit from their offspring during the first few months of the transition from home to dormitory or apartment, he said.

"In the beginning, children may feel they have to prove their independence. They may not write bome for three, months, or if they phone their parents, they'll insist on paying for the call." Parents have two choices.
"They can view their child's quest for independence as a problem or what it actually is — part of the normal development process."

