Good Teeth-For You, Your Child **Your Community**

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The Council on Dental Health of North Carolina Dental Society is sponsoring this series of articles on Dental Health. The writer, Dr. Ernest A. Branch is the Director of the Division of Oral Hygiene of the North Caro-lina State Board of Health.

Fluorides and Teeth

we should not forget the dramatic history of the discoveries and develop-

This particular story begins almost tients. In 1908 Dr. Frederick S. Mc- found to contain fluorine. affected.

tions to the surrounding countryside tal caries. and small communities, traveling by that did not get its water from the tuted. Pike's Peak watershed. Later, in a in brief, then, the first three steps mining community, the condition was in discovering the relationship of town used water from a deep mine.

Dr. McKay had called in Dr. G. V. from their own studies and from re- formation. ports received from others who had 2. The isolation of fluorine as the become interested that the condition constituent of water that causes motwas related to the water supply. Dr. tled enamel. to the condition. The first article on fluorosis was accompanied by low mottled enamel in dental literature dental caries prevalence. was published in 1916 in "Dental Cosmos" under the joint authorship of Dr. McKay and Dr. Black.

of the water hypothesis was furnished incidence of tooth decay. between 1916 and 1931 by experiences with changing water supplies in several communities. Britton, South Dakota, changed from shallow, surface had mottled tooth enamel while the Alexander: teeth of the older children were not affected. After a similar experience o'clock; morning service at 11 o'clock; in Oakley, Idaho, where the water evening service at 7:30 o'clock. Wed source was changed from surface wells nesday Evening Bible Class meets at to water piped from warm springs, a 7:30 o'clock. Everyone is welcome to second change was made and the voung people's meeting at 6:30 P. M. mottling was ended.

Bauxite, Arkansas, with the establishment of a deep well system mottling appeared. The wells were sealed off and water from the Saline River was used. Ten years later Dr. McKay and Dr. H. Trendley Dean of the United States Public Health Service examined the children's teeth and

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found the teeth of those born since the change from the well to river wa ter free of mottling. They also noted, however, that the teeth of these children were more subject to decay than were the mottled teeth. new and important observation led to a new field of investigation.

The study at Bauxite also led to finding that it was the high fluorine In the current interest and concern about fluoridation, the addition of fluorides to municipal water supplies, H. V. Churchill, chief chemist of the GI Bill. This coming summer I won-Aluminum Company of America, and der if I could take a course to get was announced by him January 20, credits I need in order to renew my ments on which this preventive meas- 1931. He found the fluoride content of the deep well at Bauxite to be 14 parts per million and was the first to fifty years ago with the desire and suggest the possible correlation be- taken just to renew a certificate or determination of a young dentist to tween fluorides in the water and motdo something about a condition that tled enamel. Waters from other af- if it will lead to a higher or more was disfiguring the teeth of his pa- fected communities were analyzed and advanced certificate than the one you

Kay and his colleagues in Colorado Dentists and chemists then became Springs set themselves the task of engrossed and engaged in studies and finding the cause and cure of the experiments to determine the amount "Brown Stain" occuring in the teeth of flourine which would inhibit decay of 80 per cent of the children and without causing mottled enamel and young adults of their town. In ex- in devising methods for regulating the amining the teeth and talking to the fluorine content of drinking water. As children they noted that the teeth of late as 1935 there was more emphasis those who had moved into the com- on reducing the fluorine content of munity after the age of ten were not water to prevent dental fluorosis than there was on adding fluorides to mu-Dr. McKay extended his investiga- nicipal water supplies to prevent den-

In our own State in the early thirhorse and buggy and asking the people what they ate and where they got communities where the children's teeth their water. He found many other showed mottling. In Windsor, where similarly afflicted communities but he the condition was prevalent in a mild also found one community that did not form, the artesian well water was have "Colorado Brown Stain." Of found to contain excessive amounts of great significance was the fact that fluorine. These wells were sealed off this was the only one of these towns and a new source of water substi-

found to be extremely serious. This fluorides in drinking water to dental town used water from a deep mine. health have been: 1. The association of the preval-

Black to help in the investigations. ence of mottled enamel with the water It gradually became apparent to them ingested during the period of tooth

Black gave the name, mottled enamel, 3. The observation that mild dental

In our next article we will discuss some of the studies and experiments leading to the acceptance of fluoridat-Conclusive evidence of the validity ed water as a means of reducing the

CHRISTIAN CHURCH SERVICES

Services at the First Christian wells to deep drilled wells with the Church have been announced as fol result that all of the young children lows by the past the Rev. E. C.

Bible School, Sunday morning at 1

N. Broad and Oakum Streets

Vets' Question Rox

Q—The VA has just awarded me sability compensation for an allment I incurred in service. Can I count on receiving compensation checks, for the same amount, each month for the rest of my life?

A-Not necessarily. Your compen sation payments may be subject to change, depending on your physical condition. If medical evidence shows your disability is improved, payments may be reduced or even stopped; or, if it shows the disability is worse, payments may be increased

Q-I'm a teacher and a World War teaching certificate.

A-No, you could not. Summertime GI training by teachers may not he keep it in force. But it may be taken now have.

CHRISTMAS HINTS FOR GIFTS, RECIPES

young girls as well as tempting ipes for your Christmas cakes these helpful articles in De

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If You Smoke YOU NEED OLAG Tooth Paste DRUG STORE

State Patrolmen Arrest 15,207 During October

Heading the October report of the state Highway Patrol were 15,207 ar-ests. In addition troopers reported hey inspected 87,409 vehicles, issued 8,352 warning tickets, investigated 8, 294 complaints, weighed 635 vehicles,

and inspected 151,592 operato

They investigated 2,227 accidents in which 89 were killed and 830 injure To carry out their duties patrolm traveled 2,072,036 miles during Oc per and used 126,000 gallons of g

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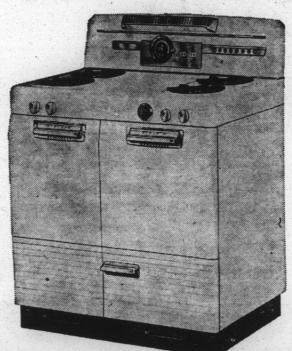
Blended Whiskey, 86 Proof. The straight whiskies in this product are 5 years or more old. 35% straight whiskey, 65% grain neutral spirits. 15% straight whiskey 5 years old, 10% straight whiskey 6 years old, 10% straight whiskey 7 years old. Schenley Distributors, Inc., N. Y. C.



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