

# Lincoln Fluoridation Could Reduce Child Tooth Decay By Two-Thirds; Might Cost 14 Cents A Person A Year

By JAN PICKARD  
Staff News Writer

Four to fourteen cents a person a year spent on fluoridation of water in Lincoln will reduce tooth decay in children by two-thirds.

According to the American Dental association, the addition of minute amounts of fluoride compounds to water supplies reduces dental caries, the most widespread disease known to mankind, in children up to 66 per cent.

Fluoridation is effective only if the fluoride is absorbed by the body while the teeth are developing. Once the teeth have developed to maturity, they are incapable of adding any fluoride compound into their structure. This means that fluoridation affects children up to approximately 14 years of age. It is most effective in children up to one year old.

Along with the reduction of dental caries by two-thirds, comes a reduction in dentist's bills for fillings, removals and other services necessary due to tooth decay. This would allow the number of dentists in the country to more adequately serve in proportion to the population.

Fluoridation is completely safe if the concentration of fluoride recommended is used. Hundreds of people drink water which naturally contains high concentration of fluorides without any ill effects, except for fluorosis, a brown stain which forms on the teeth.

Chlorination does not interfere with the beneficial effects of fluoridation. Fluoridated water may be drunk immediately after the fluoride compound has been ad-

ded. There is no need to wait for the fluoride to take effect, as there is with chlorine.

Fluoride does not add taste, color, odor or hardness to water. Home softening units do not remove the added fluoride. Even at higher concentrations, the use of fluoride-bearing water has had no known effects in industrial processes.

In water plants, continuous exposure to fluoride dust may prove injurious and certain precautions are necessary for those handling the substance. The installation of dust exhaust systems, the wearing of rubber gloves and dust filtering masks and the washing of the hands after each filling of the hopper will prevent any ill effects.

## NU Debater Among Top 14 At Purdue

Dale Johnson, sophomore debater, was one of 14 top debaters at Purdue university last week to receive a Watchel certificate for high ratings in the debate tournament.

Johnson and his colleague, Wayne Johnson, won three of four rounds at the three day conference and rated ninth among debate teams. The Johnsons, who upheld the affirmative side throughout the tournament, were sixth among affirmative teams.

Schools the two defeated were the University of Wisconsin, Michigan State and Western Michigan college.

## Bill Glassford Hospitalized

Bill Glassford, the University of Nebraska football coach, underwent surgery last week. He has been confined to the Lincoln General Hospital for the recuperation period. According to reports Glassford will be home in several days.

## Education Scholarships Now Available

Second semester scholarships for students and graduates preparing for teaching in fields of special education are available.

Those interested in obtaining a scholarship should contact D. A. Worcester, chairman of the department of educational psychology and measurements, Teachers college, 309 C.

## Nebraska's New Admirals

HAIL TO THE FLEET! . . . Members of the Innocent society were presented certificates Saturday by Governor Val Peterson (center) which give each of them the title, "Admirals in the Great Navy of the State of Nebraska." Receiving the titles are (l. to r.) Bob Reichenbach, George Wilcox, Jerry Johnson, Al Blessing, Gene Johnson, Jerry Matzke, George Cobel, Rex Messersmith, Jack Cohen, Dick Bellig, and Gene Robinson. (Daily Nebraskan Photo.)

## Connor Stars

- (Continued from Page 3)
- 2. Forrest Doelging, Spikes, 18 ft. 10 in.
  - 12-lb. Shot Put Fraternity
  - 1. Ted Connor, Sigma Chi, 56 ft. 11 in.
  - 2. Cliff Dale, Phi Delta, 49 ft. 11 in.
  - 3. Springer Jones, Sigma Nu, 48 ft. 10½ in.
  - Independent
  - 1. Tom Stoup, 49 ft. 9½ in.
  - 2. Gaylord Smith, 36 ft. 7 in.
  - 4 Lap Relay Final Fraternity
  - 1. Phi Delta Theta, 1:59.7.
  - 2. Sigma Chi, 2:02.3.
  - 3. Alpha Tau Omega, 2:02.7.
  - 4. Phi Gamma Delta, 2:04.6.
  - 5. Delta Upsilon, 2:08.9.
  - Independents
  - 1. Spikes, 1:54.0.
  - 2. Men's Dorm, 2:00.8.
  - 3. I.S.A., 2:02.3.
  - 60 Yard Dash Fraternity
  - All qualify for semifinals
  - Jack Seville, 6.8
  - Don Sierba, 6.5
  - Jack Anderson, 7.0
  - Jack Chedister, 7.1
  - Dick Blose, 7.1
  - Ted James, 6.9
  - Dick Weston, 6.6
  - Ted Connor, 7.1
  - Independent
  - All qualify
  - Bob Fairchild, 6.6
  - Rex Coffman, 6.6
  - Don Morin, 6.5
  - Chuck Chamley, 6.8
  - Lowell Hoyt, 6.5
  - Tom Stoup, 6.3
  - 440 Yard Dash Fraternity
  - 1. Charles Hunsley, Phi Delta, 55.7.
  - 2. Al Barnard, Sig Chi, 57.0
  - 3. Phil Heidrick, Sig Chi, 57.4
  - Independent
  - 1. Jim Hurley, 56.8
  - 2. Frank Wilder, 56.5
  - 60 Yard Low Hurdles Fraternity
  - 1. Dick Weston, Phi Delta, 7.4
  - 2. Ted Connor, Sig Chi, 8.0
  - 3. Jack Baugher, DU, 8.2
  - Independents
  - 1. Gaylord Smith, 7.6
  - 2. Chuck Chamley, 7.8

## National Football

(Continued from Page 3)

games and all other post-season contests or tournament. It barred the use of freshmen, cut spring football practice to 20 sessions and sharply curtailed recruiting practice out of the state. No action was taken on television.

The Pacific asked college presidents to help police against rule infractions. Curtailed certain scouting procedures. Put spring practice and other problems into the hands of a special committee. It took no action on bowls and television.

## Lois Hillyer To Address Ag Better Living Series

Mrs. Lois Hillyer, week-end supervisor of the Ag Union, will be the main speaker at Tuesday's meeting of the Better Living series at 5 p.m. in the Ag Union lounge.

The topic of discussions will be personal telephone conversations. The Lincoln telephone company will show a movie on phone conversations.

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## NU Scientists Produce Bovine Hyperkeratosis



VICTIM OF "X DISEASE" . . . Dr. Carl Olson, Jr., examines a calf in which "X disease" has been produced.

University scientists have been able to successfully produce bovine hyperkeratosis, or "X disease," in cattle.

Dr. Carl Olson, Jr., head of the University's animal pathology and hygiene department, reported Friday that recent experiments with healthy calves have resulted in producing the disease. These successful experiments open the way for further research into the basic causes of the disease (still not completely understood) and how it can be controlled.

Bovine hyperkeratosis most severely attacks calves between four and ten months of age. Older cattle are less likely to be affected by the disease. The usual symptoms, Olson said, are running eyes, loss of weight, skin thickening, ulcers and wart-like growths in the mouth.

The disease weakens cattle, Olson said, so that they become susceptible to secondary infections such as pneumonia and internal infections. The disease is often fatal and may stunt the growth of calves that do not die.

The disease has been reported in nearly all of the states. It has been found in nearly every region of Nebraska, according to a 1949-50 incomplete survey by the University.

In a scientific report for the American Journal of Veterinary Research, Olson pointed out that research at Nebraska and elsewhere during the past three years has resulted in two conclusions:

- (1) The symptoms of bovine hyperkeratosis, or "X disease," are now generally understood so that the extent of the disease can be determined.
- (2) Bovine hyperkeratosis is apparently not a contagious disease.

In a series of carefully controlled experiments at a University agricultural experiment station, Olson's research has failed to find any evidence that dehydrated alfalfa pellets, except this specific batch cause bovine hyperkeratosis.

The batch of pellets sent to the Valentine station, however, definitely caused a toxic condition in calves which led to bovine hyperkeratosis. This was demonstrated in experiments both at Valentine and at the College of Agriculture. Chemists have been unable to determine what substances in the Valentine pellets cause the toxic condition.

The origin of bovine hyperkeratosis is further complicated, Olson said, by other research. Some other feedstuffs studies in other agricultural experiment stations have caused bovine hyperkeratosis.

Olson believes that the origin of bovine hyperkeratosis may eventually be found in abnormal soil or plant growth conditions.

He believes that these conditions may be present for one crop year and absent for another.

Research at Nebraska has shown that heifers which recover from bovine hyperkeratosis do not suffer apparent damage to their reproductive capacity. The effect of the disease on the reproductive capacity of bull calves or one phase currently being studied.

Six other agricultural experiment stations, and the bureau of animal industry of the USDA have been cooperating with the University in the bovine hyperkeratosis research.

## Chancellor Entertains NU Dames



HOLIDAY PARTY . . . University Dames held a Christmas party at the home of Chancellor and Mrs. R. G. Gustavson Saturday evening. Enjoying the pollock supper and party are officers of the club and their husbands (l. to r.) Keith Kovand a, Mrs. Earl Bartels, vice-president; Mrs. Richard Dodson, recording secretary; Mrs. Joseph Koerber, corresponding secretary; Mrs. Keith Kovanda, president; Earl Bartels, Joseph Koerber and Richard Dodson. (Courtesy of Lincoln Journal.)

## OUTSTANDING AG STUDENT . . .

## Russell Schelkopf Honored At Geneva

Russell Schelkopf, University Ag college student, was honored at a recognition dinner Monday night in Geneva.

The Geneva Chamber of Commerce held the recognition banquet for the 21-year-old youth who won the top national award for livestock judging during the recent International Livestock Exposition in Chicago.

Prof. M. A. Alexander of the University's husbandry department, coach of the livestock team of which Schelkopf is a member, was a special guest at the dinner.

Schelkopf is a senior majoring in vocational agriculture. He plans to teach the subject after graduation.

The youth from Shickley has long been interested in livestock. He entered 4-H work in 1940 and compiled an outstanding record in showing as well as judging livestock.

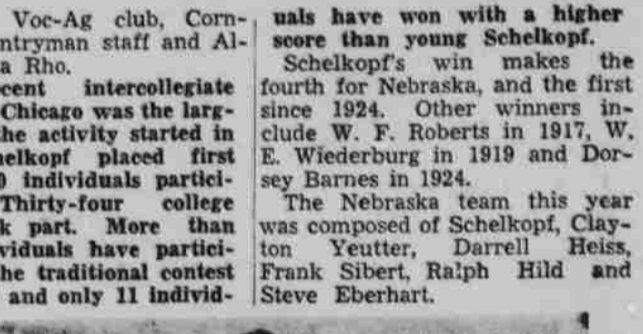
His father emphasized livestock on the family's half section farm, where Schelkopf was born and raised. The youth's background paid off in regional and national honors when he became a member of the livestock judging team at the University.

Schelkopf is a member of Alpha Zeta, Voc-Ag club, Cornhusker countryman staff and Alpha Gamma Rho.

The recent intercollegiate contest in Chicago was the largest since the activity started in 1900. Schelkopf placed first among 170 individuals participating. Thirty-four college teams took part. More than 4,000 individuals have participated in the traditional contest since 1900 and only 11 individuals have won with a higher score than young Schelkopf.

Schelkopf's win makes the fourth for Nebraska, and the first since 1924. Other winners include W. F. Roberts in 1917, W. E. Wiederburg in 1919 and Dorsey Barnes in 1924.

The Nebraska team this year was composed of Schelkopf, Clayton Yeutter, Darrell Heiss, Frank Sibert, Ralph Hild and Steve Eberhart.



NATIONAL JUDGING AWARD WINNER . . . Russel Schelkopf displays the ribbons and trophies which he has won in intercollegiate livestock judging competition. (Courtesy of Lincoln Journal and Star.)

## Beta Sigs Face Fijis In Finals Of Tournament

Beta Sigma Psi and Phi Gamma Delta battled their way into the finals of the intramural bowling tournament by dropping Delta Sigma Phi and Sigma Nu in the semi-final round.

The Beta Sigs bowlers hit 2236 and the Delta Sigs fell with a 2103 pin total. The leading bowler for the winners was Miller with a 480 series. Giffen spearheaded the Delta Sig effort with a 499 total.

The Phi Gams plastered the Sig Nu's 2354 to 2194. It was the old one-two punch for the Fijis again. Sev Harkson, holder of the intramural series record of 607, clipped off a 529 series and Bill Holmquist, his chief assistant, hit 502. Bob Roesser was the top man for the Sigma Nu's. He potted a 467 series.

Finals for the tournaments were slated for Monday evening.

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