ON THE AIR

THURSDAY

CFCY-TV

1.30 p.m.—Music
2.00 p.m.—Chez Helene
2.15 p.m.—Nursery School
2.30 p.m.—National School
3.00 p.m.—Loretta Young Show
3.30 P.M.—Take Thirty
4.00 p.m.—Scarlet Hill
4.30 p.m.—Today at Home
5.01 p.m.—Razzle Dazzle
5.30 p.m.—Gamble for a Throne
6.00 p.m.—Yogi Bear
6.31 p.m.—Gazette
7.00 p.m.—CFCY TV News
7.15 p.m.—Cinema 13-7
The Rains Came
9.00 p.m.—The Defenders
10.00 p.m.—Playdate
11.00 p.m.—Toronto Wrestling
12.00 p.m.—CBC News
12.13 a.m.—Local Weather
12.14 a.m.—Viewpoint
12.20 a.m.—Sign Off

CKCW-TV

12.45 p.m.—Station Sign On
News, Weather, Sport
1.00 p.m.—Thursday Playbill
"Forbidden Cargo"
2.30 p.m.—National Schools
3.00 p.m. At Home With
Helen Crocker
3.30 p.m.—Take Thirty
4.00 p.m.—Scarlett Hill
4.30 p.m.—Romper Room
5.01 p.m.—Razzle Dazzle
5.30 p.m.—Yogi Bear
6.00 p.m.—Supper Club
6.15 p.m.—Television News
6.25 p.m.—Supper Club
6.35 p.m.—Television Weather
6.40 p.m.—Supper Club
6.50 p.m.—Television Sports
7.00 p.m.—Route 66
8.00 p.m.—Highway Patrol
8.30 p.m.—Fair Exchange
9.00 p.m.—The Defenders
10.00 p.m.—Playdate
11:00 p.m.—Wrestling
12.00 a.m.—CBC TV News
12.14 a.m.—Viewpoint
12:20 a.m.—CKCW TV News
12.25 a.m.—Sign Off

TV. CALLS
NITE or DAY
Day 4-3537 Nite 4-4503—4-7462
VAIL'S RADIO & TV.
204 Kent St. Ch'town

CFCY RADIO

THURSDAY

6.28—Sign On
6.30—New & Weather
6.35—Country & Western Roundup
6.55—News & Weather
7.00—Hebrew Christian Hour
7.15—Country & Western Roundup
7.30—New & Weather
7.35—CFCY Farm News
7.41—Country & Western Roundup
8.00—News
8.11—Weather
8.16—Country & Western Roundup
8.45—Weather
8.50—Atlantic News Roundup
8.57—Thought For Today
9.00—CBC News & Voice Report
9.10—Preview Commentary
9.15—Notes & Music
10.00—News & Weather
10.05—Notes & Music
10.40—Mr. Co-op Program
10.50—Notes & Musc
11.00—News Headlines & Weather
11.02—News & Views on Groceries
11.15—Notes & Music
11.45—Bulletin Board
11.50—Notes & Music
11.55—Atlantic News Roundup
12.00—Weather
12.05—Mostly Music
12.30—News & Weather
12.45—Mostly Music
1.00—News Headlines & Weather
1.02—Mostly Music
1.15—Shirley Harmer & What's On Tapp
1.45—Cafe Variety
2.00—New & Weather
2.05—The Chuckwagon
2.15—Hits & Encores
3.00—News Headlines & Weather
3.03—Trans-Canada Matinee CBC
3.30—Notes & Music
4.00—News Headlines & Weather
4.03—Canadian Roundup CBC
4.10—Hits & Encores
4.30—The Outports
5.00—News & Weather
5.05—The Outports
5.25—Marine Weather
5.28—The Outports
6.00—News & Weather
6.15—On Parliament Hill CBC
6.20—Sports Pararde
6.30—Tonight's Music
7.00—Back To The Bible
7.30—News & Weather
7.45—Byline
7.50—Program Schedule
7.51—Red Cross Program
8.05—Tonight's Music
9.00—Continential Holiday CBC
10.00—National News CBC
10.30—Christian Frontiers CBC
11.00—News & Regional Weather
11.05—Starlight Serenade
11.30—News Headlines & Maritime Weather
11.35—Starlight Serenade
12.00—News, Reg. Weather & Sports
12.05—Sign Off
10.30—What's Your View
10.35—Notes & Music

CBA

THURSDAY

6.00—The Gerry Fogarty Show Part 1
8.00—News & Inland Weather
8.15—Maritime Sportscast
8.21—The Gerry Fogarty Show Part 2
8.45—The Max Ferguson Show
9.00—CBC News & Direct Reports
9.10—Preview Commentary
9.15—A.M. Chronicle
10.10—Count Your Blessings
10.15—Playroom
10.30—To Market With Music
11.00—CBC News
11.05—Joan Marshall
11.15—For Consumers
11.20—Record Album
11.30—The Archers
11.45—Cafe Variety
12.00—Jamboree Junction
12.15—Chuckwagon
12.25—Jamboree Junction
12.30—Maritime Farm B'cast
1.00—CBC News & Inland Weathe
1.15—Shirley Harmer & What's On Tapp
1.45—Time Out For Melody
1.59—Dominion Observatory Time Signal
2.00—Time Out For Melody
2.45—John Drainie Tells A Story
3.00—CBC News
3.03—T.C. Matinee
3.30—T.C. Matinee
4.00—CBC News
4.03—Canadian Roundup
4.10—Ebb Tide
4.30—Countdown
4.45 Music In The Air
5.00—Maritime Fish B'cast
5.20—Tempo
5.40—CBC Notebook
6.00—CBC News & Inland Weather
6.15—On Parliament Hill
6.20—Regional Commentary
6.25—Maritime Sportscast
6.30—Music In The Evening
7.15—Byline
7.20—Marine Weather & Musical Interlude
7.30—Assignment
8.00—Radio International
8.30—Variety Showcase
9.00—Citizen's Forum
0.30—Canadian Quartet Strings
10.00—CBC National News Roundup & Speaking Personally
10.30—Christian Frontiers
11.00—Maritime Mag.
11.30—Moonglow
12.00—Sport Scores & Marine Weather
12.09—Inland Weather

Multi-Million Probe Possible Of Vitamin As Heart Treatment

By BOB TRIMBEE

SASKATOON (CP)—A multi-million-dollar study may be undertaken in the United States to determine the practical value of a University of Saskatchewan doctor's work with a vitamin as a possible means of reversing or arresting the fatal process of a major heart disease.

The doctor is Rudolf Altschul, head of the university's department of anatomy. He has worked at the university here since he fled his native Czechoslovakia at the start of the Second World War.

The vitamin is nicotinic acid, or niacin, a member of the vitamin B family. Doctors have known about it for 60 years. Scientists have been aware for years that it is a constituent of several respiratory enzymes—an organic catalyst that unlocks the oxidation chain, a vital part of body nutrition.

The disease is arteriosclerosis, commonly called hardening of the arteries. It is the disease that causes most strokes and coronaries. It degenerates arteries, building up layers of fatty-like substance in artery walls. These layers gradually plug the circulation system and prevent movement of blood to vital organs.

EIGHT-YEAR STUDY

The study would determine whether there is a connection between use of the vitamin and an apparent arrest of the disease, or whether the action is the result of a process still unknown. It would take eight years to complete at an annual cost of $12,000,000.

First suggested in 1961 to the U.S. National Health Council by its advisory committee on anti-atherosclerotic drugs, the study would follow this pattern:

About 3,700 persons who have suffered a mild coronary would be placed in one group, half being given daily large doses of the vitamins. The progress of individuals in both sections would be followed for five years or until they suffered a second heart attack.

A second group would comprise 10,000 persons who have never suffered an attack, but who have a high cholesterol level in the blood, a factor which the vitamin can reduce—though no one yet knows why.

(A high cholesterol level in the blood has been associated with the development of arteriosclerosis.)

MYSTERY SUBSTANCE

As with the first group, half those in the second would receive daily doses of the vitamins and the remainder would not, with those in both groups being followed for five years.

Cholesterol is a fatty-like substance found in all body cells. Its level in the blood varies from person to person. No one knows why, although doctors suspect diet and heredity may play a part. Doctors also are unsure what causes arteriosclerosis, but again diet and heredity factors appear to play a part.

The association between the two facts has given medical researchers a front which they can attack in trying to find an answer to hardening of the arteries. It is in this field Dr. Altschul has worked since 1943.

In the late 1940s he found that oxidation of pure cholesterol before feeding it to rabbits resulted in a decrease in the animals' cholesterol level. A further series of experiments revealed ultraviolet irradiation given rabbits after feeding them with pure cholesterol reduces the level.

Similar reactions were noted among many patients, with various diseases, who had undergone single, strong doses or a series of strong doses of ultraviolet irradiation.

CHANCE ENCOUNTER

Later Dr. Altschul discovered oxygen inhalation had the same effect.

But while conducting tests with both methods in late 1953, Dr. Altschul had a chance conversation with a former student, Dr. Abraham Hoffer, now head of Saskatchewan's psychiatric research program.

Dr. Hoffer told his former teacher he was having significant success in the treatment of schizophrenia through the use of large daily doses of niacin. He added that the patients had suffered no toxic effects from the heavy dosage.

Said Dr. Altschul:

"My early work had shown that respiratory enzymes could stimulate oxidation processes in the body. I also knew the nicotinic acid was a constituent of some of these enzymes and the thought struck me that perhaps I could use this vitamin to stimulate oxidation in the blood and thereby lower the cholesterol level."

In 1955 the first results of his experiments were published. "We were able to conclude definitely that nicotinic acid decreases serum cholesterol levels among the 68 individuals studied." Eleven of the group had no illness while the others were hospital patients.

"After giving large doses (about one gram for every 50 pounds weight) of nicotinic acid to healthy and sick people we observed an immediate and highly significant lowering of the cholesterol level as long as the treatment was continued.

"Whether this lowering of the serum cholesterol is influencing the course of arteriosclerosis can only be established later."

Researchers in nine other countries have confirmed the results of Dr. Altschul's work. "Many doctors use the vitamin to aid in lowering the cholesterol level of patients who have arteriosclerosis. The vitamin has no toxic effects and since it is safe, it is used despite there having been no large-scale co-operative clinical studies to confirm that it can influence the course of the disease."

Dr. Altschul said "it's the best and safest way known to reduce this level, so really it's worth trying in the treatment of the disease."

While no decision has been made for a start on a mass treatment study of the vitamin, Dr. Altschul said it's only a question of time.

Natural Gas Seen Future Food Source

BANFF, Alta. (CP) — Natural gas may be a potential food source, says President J. W. Kerr of Trans-Canada Pipelines Limited.

He described natural gas as "a source of magic molecules which today are a part of your car's tire, upholstery and steering wheel, your clothing, hundreds of household articles and perhaps in the not too distant future a source of vitamins and nutrition."

In a speech to a meeting of petroleum accountants, he said studies of natural gas uses as food are under way.

Mr. Kerr expressed concern that natural gas discoveries may be curtailed by development of the Athabasca oil sands as a crude oil source. Development of the sands, believed to contain 300,000,000,000 barrels of oil might ease off exploration.

MAY AFFECT EXPLORING

"The staggering amount of capital required to bring these sands into production, and their tremendous production potential will no doubt have some effect on the normal exploration activities."

Mr. Kerr went on to warn of problems in marketing natural gas.

"I would not want to mislead anyone that selling natural gas, particularly in eastern Canada, is an easy job. The competition we face from electricity, oil and coal is not to be underestimated.

"We welcome fair play, and competitive challenge means hard work and a concerted effort, co-ordination and understanding by all phases of the industry from the producer to the distributor."

Trans . Canada buys Alberta natural gas and carries it by pipeline to eastern consumers.

Mr. Kerr described natural gas as an "invisible giant" that now supplied about 13 per cent of Canada's energy needs compared with 2.7 per cent in 1940.

He said about $1,000,000,000 had been invested in the industry in the last 10 years. About half of the amount had been spent in Alberta on processing and gathering facilities.

CONTRACT BRIDGE

By B. JAY BECKER

South dealer.
Both sides vulnerable.

NORTH
♠A 7 6 5 2
♥6 3
♦Q 7 6 3
♣10 5

WEST
♠K J 8
♥10 7 4
♦A K J 10 5
♣7 2

EAST
♠10 9
♥J 9 5 2
♦9 8 4 2
♣8 6 4

SOUTH
♠Q 4 3
♥A K Q 8
♦—
♣A K Q J 9 3

The bidding:

South	West	North	East
2 ♣	2 ♦	Pass	Pass
2 ♥	Pass	2 ♠	Pass
3 ♣	Pass	3 NT	Pass
5 ♣	Pass	6 ♣	

Opening lead — king of diamonds.

Let's suppose that you are declarer at six clubs and West leads the king of diamonds. How would you go about trying to make the slam?

Of course, you don't see the adverse hands, but you are entitled to make certain assumptions. It seems reasonable to conclude that West has five or more diamonds headed by at least the A-K. It also seems likely that West has the missing spade strength, particularly the king. Aside from that, you can't tell much about the opponents' hands.

Presumably, you can trump a heart in dummy, but that still leaves you with two spade losers. The problem is how to play the hand so that you lose only one spade trick.

The correct way of playing the hand is to discard a spade on the opening lead. If you do this, you make the contract; if you don't, you go down.

Let's say West shifts to a trump at trick two. You win it with the nine, cash the A-K of hearts, and ruff a heart in dummy. Then, after ruffing a diamond, you cash all your trumps, at which point this becomes the position:

North
♠A 7
♦Q

West
♠K J
♦A

East
♠10 9
♥J

South
♠Q 4
♥Q

Now you cash the queen of hearts. Whatever West discards, you make the rest of the tricks. He is squeezed.

The general rule that governs squeezes is that declarer tries to achieve a position where all his cards are winners except one.

On the opening lead, South sees that he has all winners except for two tricks. That is why he deliberately gives up the first trick to achieve the all-but-one position. This process of conceding a trick early is known as rectifying the count

RIPLEY'S BELIEVE IT OR NOT

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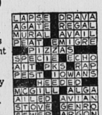
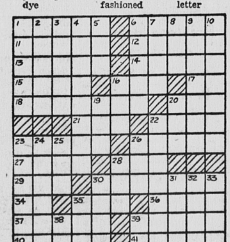
DAILY CROSSWORD

ACROSS
1. Scenic view
6. Flexes
11. Linger
12. Daisylike plant
13. Girl's nickname
14. Potassium nitrate
15. Heavenly body
16. All ——, or wholeheartedly
17. West Indies: abbr.
18. Narrow flags
20. Feathered neckpiece
21. Old times
22. Deep, still spot in river
23. Crevasse
26. Fairies' magic rods
27. Hawthorn berries
28. Elevator cage
29. Single unit
30. Chief of Ottawa Indians
34. King of Bashan: Bib.
35. Back ——, Boston
36. Fuss
37. Dirties
39. Lacking
40. God of southeast wind: Gr. myth.
41. —— Zola
42. Gaze fixedly
43. Pithy

DOWN
1. Imprint with a design
2. Light boat
3. Colorless, odorless gas
4. King's daughter
5. Organ of sight
6. Salesman's dividend
7. Way out
8. Gain
9. Wood yielding dye
10. Continued stories
16. Ancient
19. Shade tree
20. Kidney bean
22. Short-time employment
23. Selects
24. Frequent: sl. (2 wds.)
25. Astonishment
26. Pale
28. Coquettish
30. Old-fashioned
31. Ancient district: Asia Minor
32. Grown up
33. Snug: var
35. Smudge
38. —— Gershwin
39. Hebrew letter



Yesterday's Answer



5-23

DAILY CRYPTOQUOTE — Here's how to work it:

A X Y D L B A A X R
is L O N G F E L L O W

One letter simply stands for another. In this sample A is used for the three L's, X for the two O's, etc. Single letters, apostrophies, the length and formation of the words are all hints. Each day the code letters are different.

A Cryptogram Quotation

QWEFQWZF QE QWFPSSQIPWZP QWZJUJOSP BX EPSX-ZBWEZQBRE-WPEE.—EFPVSQWI

Yesterday's Cryptoquote: ACHIEVEMENT HAS COME TO BE THE ONLY REAL PATENT OF NOBILITY.—W. WILSON

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OUR BOARDING HOUSE MAJOR HOOPLE

GRANDMA

MICKEY MOUSE

ETTA KETT

SECRET AGENT X-9

NUBBIN

HENRY

THE LONE RANGER

MUGGS & SKEETER

JOE PALOOKA

L'IL ABNER