N THE AIR

URDAY PROGRAMS

CFCY-TV

p.m.—Musicale
p.m.—World of Sport
Curling
p.m.—World of Sport
CBC Championship Goli
p.m.—I Married Joan
p.m.—Bugs Bunny
p.m.—Kingfisher Cove
p.m.—Fishermen's Log
p.m.—CFCY TV News and
Weather
p.m.—Country Time
p.m.—To Tell The Truth
p.m.—Beverly Hillbillies
p.m.—Cinema 13-7
Little Miss Broadway
p.m.—NHL Hockey
Detroit at Toronto
p.m.—Juliette
p.m.—Sports Unlimited
p.m.—CBC TV News
p.m.—Local Weather
p.m.—Mystery Theatre
Lets Go Steady

NTRAL
DIO and TV
Call 4-8246
en 8:30 a.m.-9 p.m.
Kent St. (Opp. Eaton's)

CKCW-TV

p.m.—Sign On
p.m.—Comment and Conviction
p.m.—Top Ten Plus
p.m.—World of Sport
Curling N.S. & N.B.
p.m.—World of Sport
Golf
p.m.—The Lawman
p.m.—Bugs Bunny
p.m.—Kingfisher Cove
p.m.—The Early Show
My Sister Eileen
p.m.—Beverly Hillbillies
p.m.—Hennessey
p.m.—The Untouchables
p.m.—NHL Hockey
p.m.—Juliette
p.m.—Ports Unlimited
p.m.—CBC TV News
p.m.—CKCW-TV News
p.m.—The Late Show
Fighting Seabees
a.m.—Sign Off

TV Troubles?
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JOHN S. DENNIS
e 4-4128 Sherwood

NDAY PROGRAMS

CFCY-TV

p.m.—Musicale
p.m.—Hour of St. Francis
p.m.—Country Calendar
p.m.—All Star Golf
p.m.—Time of Your Life
p.m.—Speaking French
p.m.—Heritage
p.m.—Twenty-Twenty
p.m.—CBC TV News
p.m.—Twentieth Century
p.m.—Citizen's Forum
p.m.—Nature of Things
p.m.—Best of the Post
p.m.—Father Knows Best
p.m.—Hazel
p.m.—Flashback
p.m.—Ed Sullivan Show
p.m.—Bonanza
p.m.—Close-Up
p.m.—CBC TV News
a.m.—Local Weather
a.m.—Sign Off

TV. CALLS
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AIL'S RADIO & TV.
Kent St. Ch'town

CKCW-TV

p.m.—Station Sign On
News, Weather, Sports
p.m.—Oral Roberts
p.m.—Country Calendar
p.m.—Faith in Action
p.m.—The Christophers
p.m.—Time of Your Life
p.m.—Speaking French
p.m.—Heritage
p.m.—Twenty Twenty
p.m.—CBC News
p.m.—Twentieth Century
p.m.—Citizen's Forum
p.m.—Biography
p.m.—Going My Way
p.m.—Hazel
p.m.—Flashback
p.m.—Ed Sullivan Show
p.m.—Bonanza
p.m.—Close-Up
p.m.—Quest
p.m.—CBC TV News
a.m.—CKCW TV News
a.m.—Sign Off

CFCY RADIO

SATURDAY

—Sign On
—News & Weather
—Country & Western Roundup
—News & Weather
—Hebrew Christian Hour
—Country & Western Roundup
—News & Weather
—CFCY Farm Report
—Country & Western Roundup
—News
—Weather
—Country & Western Roundup
—Weather
—Atlantic News
—News & From Our Own Correspondents CBC
—Keyboard Melodies
—Melody Parade
—News & Weather
—Melody Parade
—News Headlines & Weather
—Magic Of Music
—Atlantic News Roundup
—Weather
—Clare Burt Show
—Band Parade
—News & Weather
—R.C.M.P. Road Report
—Mostly Music
—News Headlines & Weather

Peculiar Body Odor In Fish Attracts Marine Predators

By BEN WARD

OTTAWA (CP) — A peculiar compound in the body odor of fish which attracts marine predators to their prey was reported here to the Canadian Society of Zoologists.

Dr. Herman Kleerekoper of McMaster University at Hamilton, Ont., who discovered "amine F" in a five-year research study, said careful experiments have proven that the compound is a major link in the system by which predator fish find their food.

Amine F has so far been discovered in 32 species of ocean fish and has attracted attention as a possible key to new shark repellants or chemicals by which commercial fishermen could make greater catches.

Dr. Kleerekoper isolated the amine while studying how the sea lamprey locates lake trout. The eel-like lamprey has almost wiped out the trout fishery of the Great Lakes.

The amine formed a minute part of a secretion from the skin of the lake trout. Experiments proved that the lamprey was able to detect tiny quantities of the amine in water and follow them to their source by smell.

STUDIED SHARKS

Last summer Dr. Kleerekoper's research team spent five months at the United States marine laboratory in Bimini in the Bahamas testing the amine on sharks penned in huge wire corrals.

He showed color films at Tuesday's meeting illustrating how the compound attracted the sharks to dummy fish suspended underwater by wires and tubes. The sharks ignored the dummy fish until the amine was poured into the tubes in a water solution and began to leak from the dummies. Then they swarmed to attack.

Scientists of the National Research Council in Ottawa are studying the compound with a view to its commercial use. If amine F turns out to be such a super-lure attraction for commercial fish it could have an important application in the fishing industry.

Dr. Kleerekoper cautioned against jumping to immediate conclusions on its commercial use. For one thing, the sharks attracted by the amine did not attempt to bite or chew the dummy fish. They halted their attacks at the last second, apparently realizing the fish were artificial.

He thinks the amine is only one step in the attraction of predators, although perhaps the most important one.

One unknown factor is whether humans secrete amine F. The McMaster researchers haven't gotten around to the question yet.

B-A Oil Plans Chemical Deal

MONTREAL (CP) — British American Oil Co. Ltd. plans to increase its holdings in Shawinigan Chemicals Ltd. from the present 25 per cent to 66 2-3 per cent.

A joint announcement from E. D. Loughney, president of British American, and J. A. Fuller, chairman of Shawinigan Water and Power Company, stated that the boards of directors of the two companies have confirmed the transaction, as outlined in a previous agreement.

The announcement said a new Quebec company named Shawinigan Industries Ltd. is being formed. In it will be vested the 75 per cent holdings of Shawinigan Water and Power in Shawinigan Chemicals, subject to an undertaking by the new company to sell 277,691 shares of Shawinigan Chemicals to British American for $25,219,897.

Shawinigan Industries will retain a 33 1-3-per-cent interest in Shawinigan Chemicals and in addition, the announcement states, will hold the other non-utility assets of Shawinigan Water and Power.

Mr. Fuller said money from British American for Shawinigan Chemical shares will provide Shawinigan Industries with capital necessary to carry out plans for development and diversification of its activities.

Shawinigan Power is one of 11 private power companies facing expropriation by the Quebec government in its bid to bring the province's hydro - distribuing systems under public ownership.

BAD FARM YEAR

Farm incomes in Canada fell 24 per cent in 1961 to the lowest level since 1945.

CONTRACT BRIDGE

By B. JAY BECKER

East dealer.
Neither side vulnerable.

NORTH
♠ J3
♥ A1063
♦ J84
♣ KQ92

WEST
♠ Q10764
♥ 8
♦ 9652
♣ 854

EAST
♠ A952
♥ J9542
♦ AK
♣ 73

SOUTH
♠ K8
♥ KQ7
♦ Q1073
♣ AJ106

The bidding:

East	South	West	North
1 ♥	1 NT	Pass	3 NT

Opening lead—six of spades.

There is a vast difference between playing bridge looking at only the 13 cards dealt you, and playing bridge looking at all 52 cards, as seen in a diagram.

It is my policy in this column, in discussing hands, to hold a player responsible for only what he is expected to know and think under normal playing conditions, and not for the superior knowledge he would obtain from seeing all four hands.

Nevertheless, in many deals, a player is supposed to play as though he sees all 52 cards. Bridge, being a game of logic, permits a skilled performer to bid and play many hands as though all cards were exposed. Here is an example of how the process works.

South gets to three notrump after East opens the bidding with a heart. West leads a spade, which East takes with the ace. East returns the two of spades which South wins with the king. How should South proceed?

Declarer can count eight quick tricks and has to obtain a ninth trick before East-West grab the lead to defeat him. It is plain to see that South's sole hope (seeing only dummy's hand and his own; is to pick up an additional trick in hearts, that is, win four heart tricks instead of three.

East bid hearts and hence is far more likely to have the jack than West. To cash the K-Q and expect the jack to fall in the process is a forlorn hope. But to find West with the singleton eight or nine is certainly well within the realm of possibility.

Declarer plays accordingly. He cashes the ace of clubs and plays a club to the nine. Now he leads the ten of hearts, planning to finesse if East follows low.

When East covers with the jack, South takes the king, enters dummy with a club, and leads the three of hearts. When East follows low, South finesses the seven. The finesse succeeds and South then has his well-earned ninth trick.

1.02—Mostly Music
1.30—I.Q.
2.00—News & Weather
2.05—Hits & Encores
3.00—News & Weather
3.05—The Hit Parade
4.00—News & Weather
4.05—The Hit Parade
4.30—The Outports
5.00—News & Weather
5.05—The Outports
5.25—Marine Weather
5.28—The Outports
6.00—News & Weather
6.13—N.S. Road Report
6.15—Sports Parade
6.20—Report From Parliament Hill
6.30—Waltztime
6.45—The Magic Carpet
7.00—Back To The Bible
7.30—News & Weather
7.45—Saturday Night Hoedown
9.25—CBC National News
9.30—National Hockey League Game
CBC
11.30—Music 'till Midnight CBC
12.00—Marine Weather CBC
12.10—Sign Off

CBA

SATURDAY

6.00—Music On The Menu
8.00—News and Inland Weather
8.15—Maritime Sportscast and Sports Interview
8.30—Sports College
8.45—Songs Around The World
9.00—CBC News From our own Correspondent
9.11—Music For Saturday
10.15—Matinee Highlights
10.45—Saturday Date
11.45—CBC Camera Club
12.00—Luncheon Date
12.30—Farm and Jr. Farm Boasts and Program Preview
1.00—CBC Inland News & Weather
1.15—Songs From Here and There
1.30—Mood Latino
1.59—D.O. Time Signal
2.00—Off The Record
2.30—Time For French
2.45—Chansonettes
3.00—Metropolitan Opera
4.30—Party At The Movies
7.00—CBC News
7.07—Inland and Marine Weathr
7.15—Looking Through The Papers
7.30—On The Move
8.00—U.N. Radio
8.15—Pick Of The Pops
9.00—Best Of Dixie
9.25—CBC News
9.30—NHL Hockey
11.30—Music Till Midnight
12.00—Marine Weather
12.15—Inland Weather

CFCY RADIO

SUNDAY

7.30—Sign On
7.32—Sacred Heart Program
7.47—News & Weather
8.00—La Bonne Nouvelle
8.30—Radio Bible Class
9.00—News & Weather
9.10—Sunday School By Radio
9.30—Bible Institute Broadcast
10.00—Sunday Morning Magazine CBC
10.30—Weather & Maritime Gardener
10.45—Neighbourly News
11.00—Local Church Service
12.10—Piano Classics
12.30—Old Fashioned Revival Hour
1.00—News & Weather
1.15—Tell Us A Story
1.30—Voice Of Prophecy
2.00—News CBC
2.03—Capitol Report CBC
2.30—World Vision
3.00—Where The Bible Speaks
3.30—Church Of The Air CBC
4.00—News CBC
4.03—Hebrew Christian Hour
4.18—Bible Chair Broadcast
4.30—Hour Of Decision
5.00—Project '63
6.00—News & Weather
6.15—Hymns & Sacred Songs
6.30—Unshackled
7.00—Peoples Gospel Hour
8.00—CBC Stage CBC
9.00—Music Styled By CBC
9.30—On The Move CBC
10.00—CBC National News
10.10—Weekend Review & Our Special Speakers CBC
10.30—Carl Tapscott Singers
11.00—News & Regional Weather
11.05—Starlight Serenade
11.30—News Headlines & Maritime Weather
11.35—Starlight Serenade
12.00—News, Regional Weather & Sports Scores
12.05—Sign Off

CBA

SUNDAY

7.15—Inland & Marine Weather and Music For Sunday
8.45—World Church News
9.00—CBC News
9.05—Postmark U.K.
9.30—Inland Weather and Mar. Gardener
9.45—Neighborly News
10.00—Sunday Morning Mag.
10.30—CBC Concert Orchestra
11.00—News, Inland and Marine Weather and Intermission
11.30—Choral Encore
12.00—Rod and Charles
12.30—Organ.
1.00—BBC News and Commentary
1.15—Inland and Marine Weather
1.30—Carl Tapscott
1.59—D.O. Time Signal
2.00—News
2.03—Capitol Report
2.30—CBC Symphony Orchestra
3.30—Church Of The Air
4.00—CBC News
4.03—Critically Speaking
4.45—Performers Choice
5.00—Project '63
6.00—News and Weather
6.10—In Reply
6.30—New York Philharmonic
8.00—CBC Stage
9.00—Music Syled By Neil Chatem
9.30—On The Move
10.00—CBC Nat., News, Weekend Review and Our Special Speaker
10.30—TBA
11.00—Symphony Hall
12.00—Marine Weather
12.09—Inland Weather
12.12—Northern Messenger

RIPLEY'S BELIEVE IT OR NOT

DAILY CROSSWORD

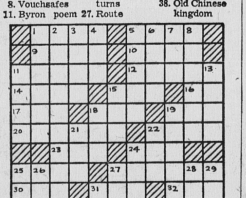
ACROSS

1. Heavy stick
5. Hurried
9. Circle of light
10. Goddess of volcanoes: Haw.
11. To compare
12. Means of communication
14. Brothers
15. Lively dance
16. Gallium: sym.
17. Twilled fabric
18. Heavy drinking cup
19. Half ems
20. Handsome young man
22. Speedy
23. Pikelike fish
24. Public vehicle
25. Stringed instrument
27. The cold months
30. —— and downs
31. —— Cupid
32. High priest
33. Part of "to be"
34. Shout to drive hogs
35. Dull
36. Lucky number to some
38. Oozes
39. Slant
40. Ugly old women
41. Uncle —— : Lat.
42. Incite

DOWN

1. Sounded, as Big Ben
2. Name given to Wordsworth, Coleridge, Southey
3. Rubber trees: Mex.
4. —— vivant
5. Small branch or spray
6. Shell beads
7. Old times
8. Vouchsafes
11. Byron poem
13. Baking chamber
15. Law: Lat.
18. One thousand
19. Egg-shaped Easter gift (2 words)
21. Born
22. Merriment
24. Storage crib
25. Man's name: Sp.
26. Overturns
27. Route
28. Pass, as time
29. Bones enclosing chest cavity
31. Dos and ——
34. Tiller
35. Costly
37. By way of
38. Old Chinese kingdom

Yesterday's Answer



1-12.

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

IUG NOC, ITT, NUACGN ACIT YGNNJTTEN MCS AN CTI JTE-EOIGS.—EMGHIAON

Yesterday's Cryptoquote: TOMORROW IS A SATIRE ON TODAY AND SHOWS ITS WEAKNESS.—YOUNG

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