# ON THE AIR

TUESDAY PROGRAMS

CFCY-TV

6:30 p.m.—Musicale
6:00 p.m.—Chez Helene
2:15 p.m.—Nursery School
2:30 p.m.—National Schools
3:00 p.m.—Loretta Young
3:30 P.M.—Take Thirty
4:00 p.m.—Scarlet Hill
4:30 p.m.—Today at Home
5:00 p.m.—Razzle Dazzle
5:30 p.m.—Mr. Mercury and His Super Car
6:00 p.m.—Suzie
6:31 p.m.—Gazette
7:01 p.m.—CFCY TV News
7:15 p.m.—Cinema 13-7 Do You Love Me?
8:00 p.m.—Car 54
8:30 p.m.—Perry Mason
9:00 p.m.—Front Page Challenge
9:30 p.m.—Freetime Political—Social Credit
11:15 p.m.—Freetime Political—PC
11:30 p.m.—Lively Arts
12:00 a.m.—CBC News
12:15 a.m.—Weather
12:15 a.m.—Viewpoint
12:15 a.m.—Sign Off

CENTRAL RADIO and TV
Call 4-8246
Open 8:30 a.m.–9 p.m.
178 Kent St. (Opp. Eaton's)

CKCW-TV

5:45 p.m.—News, Weather, Sports
6:00 p.m.—Tuesday Playbill California Conquest
8:30 p.m.—National Schools
9:00 p.m.—At Home with Hazel Crocker
8:30 p.m.—Take Thirty
4:00 p.m.—Scarlet Hill
4:30 p.m.—Romper Room
5:01 p.m.—Razzle Dazzle
5:30 p.m.—Fignewton, Frong and Dare
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.—Theatre at Seven Battle Stations
8:30 p.m.—Bunkhouse Boys
9:00 p.m.—Car 54
9:30 p.m.—Perry Mason
10:00 p.m.—Front Page Challenge
11:00 p.m.—Political Free Time—S.C
11:15 p.m.—Political Free Time—P.C
11:30 p.m.—Lively Arts
12:00 p.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

# RADIO TODAY

CFCY

TUESDAY

6:25—Sign On
6:30—News & Weather
6:35—Country & Western Roundup
6:55—News & Weather
7:00—Hebrew Christian Hour
7:15—Country & Western Roundup
7:30—News & Weather
7:35—CFCY Farm News
7:41—Country & Western Roundup
8:00—News
8:11—Weather
8:15—Country & Western Roundup
8:45—Weather
8:50—Atlantic News
8:57—Thought For Today
9:00—News & Voice Reports—CBC
9:10—Preview Commentary—CBC
9:15—Morning Moods
9:30—Pick Your Partner
9:35—Morning Moods
9:55—What's The Song
10:00—News & Weather
10:05—Notes & Music
10:10—Count Your Blessings—CBC
10:15—Win 57
10:20—Notes and Music
10:30—News Headlines & Weather
10:02—Notes & Music
10:45—Bulletin Board
10:50—Notes and Music
11:00—Atlantic News Roundup
12:00—Weather
12:05—Mostly Music
12:30—News & Weather
12:43—P.E.I. Road Report
12:45—Mostly Music
1:00—News Headlines & Weather
1:10—Interlude
1:15—Shirley Harmer & What's On Tapp (CBC)
1:45—Mostly Music
2:00—News & Weather
2:05—Portrait of a Star
2:10—Hits & Encores
3:00—News & Weather
3:03—Trans-Canada Matinee—CBC
3:30—Hits & Encores
4:00—News & Weather
4:03—Canadian Roundup—CBC
4:30—Hits & Encores
4:30—The Outports
5:00—News & Weather
5:05—The Outports
5:25,30—Marine Weather
5:28—The Outports
6:00—News & Weather
6:15—On Parliament Hill—CBC
6:30—Sports Parade
6:30—Tonight's Music
7:00—Back to the Bible
7:00—News & Weather
7:45—Byline
7:50—Program Schedule
7:51—Lone Guide Talk
8:00—Mount Allison Forum—CBC
8:00—Tonight's Music
9:00—Business Barometer—CBC
9:30—Talent Festival—CBC
10:00—National News CBC
10:30—Science Review—CBC
11:00—News & Regional Weather
11:05—Starlight Serenade
11:30—News & Maritime Weather
11:35—Starlight Serenade
12:00—News, Regional Weather & Sports Scores
12:05—Sign Off

CBA

TUESDAY

6:00—The Gerry Fogarty Show,
8:05—CBC News & Inland Weather
8:15—Maritime Sportscast
8:21—The Gerry Fogarty Show
8:30—Portrait of a Star
8:35—The Max Ferguson Show
9:00—CBC News and Voice Reports
9:10—Preview Commentary
9:16—A.M.Chronicle
10:10—Count Your Blessings
10:15—Playroom
10:30—University Of The Air
11:00—CBC News
11:05—Jean Marshall
11:15—For Consumers
11:20—Record Album
11:30—The Archers
11:45—Cafe Variety
12:00—Jamboree Junction
12:30—Maritime Farm B'cast
1:00—CBC News & Weather
1:15—Shirley Harmer and What's On Tapp
1:45—Time Out For Melody
1:59—Dom. Ob. Time Signal
2:00—Time Out For Melody
2:15—Atlantic School B'cast 'Airway To Songs'
2:30—Atlantic School B'cast 'Things of Nature'
2:45—John Draine Tells A Story
3:00—CBC News
3:03—T. C. Matinee
4:00—CBC News
4:03—Canadian Roundup
4:10—George Le Fleche Show
4:30—Countdown
4:45—Music In The Air
5:00—Maritime Fish B'cast
5:20—Tempo
5:30—CBC Notebook
6:00—CBC News & Weather
6:15—Campaign Report
6:20—Regional Commentary
6:25—Maritime Sportscast
6:30—World Hockey Report
6:40—Music In The Evening
7:15—Byline
7:20—Marine Weather and Musical Interlude
7:30—Assignment
7:50—Canadian Curling Championship
8:00—Radio International
8:30—Winnipeg Pops Concert
9:00—Business Barometer
9:30—New Talent Parade
10:00—CBC Nat. News Roundup & Speaking Personally
10:30—Soundings
11:00—Drama—Alu Aku
11:30—Nightspot
12:00—Marine Weather
12:09—Inland Weather

# Computer Gets Ready To Join Weatherman

By ALEXANDER FARRELL

MONTREAL (CP) —G-20 is about to be called in on the case of the mysterious atmosphere.

Weather forecasters now get a lot more information than they used to about atmospheric conditions all over the northern hemisphere. In fact, they get so much that if they have to sit down and figure it all out they can't arrive at a forecast until it's not a forecast any longer.

This is where G-20 enters the picture. G-20 is a 10-unit, $1,250,000 computer system installed last year in a sound-proofed room at the Canadian meteorological service in Montreal.

It now is undergoing a series of trial runs and is scheduled to become a full-time operating partner of the weatherman some time this summer.

Its task is divided into three steps, data processing, analysis and forecasting, requiring less than an hour to complete.

Data from observation stations all over the northern hemisphere, including China and the Soviet Union, pours into the Montreal office at 12-hour intervals.

**1,000 LINES A MINUTE**

Expressed in the language of mathematics, this information adds up to about 1,000 teletype lines that have to be decoded and sorted into various categories, such as temperature, humidity, pressure and wind direction and speed.

The next step is to interpret all this information in order to get the broad weather picture for the whole hemisphere, and the final step is to predict how this picture will change in the next 48 hours.

The new weather computer, first in Canada, can do 100,000 additions in one second.

It can multiply 2,000 eight-digit numbers faster than you can say "two times two is . . . uh . . . four."

The unit on which the computer's calculations emerge on paper, the line - printer, can print them at the rate of 1,000 lines a minute.

To the layman's eye, these lines are a jumble of numbers and letters. The meteorologist, understanding them to mean such things as "cold front moving east across Alaska," translates them into weather maps and forecast charts.

Computers were introduced into weather research and analysis in the United States in 1954 and have since come into use in Germany, Sweden, France, Britain, Russia and Japan.

**WOULD NEVER ERR**

James Leaver, officer in charge of the central analysis office at the Montreal weather bureau, said: "Computers are rapidly taking the uncertainty out of forecasting. If we could ever feed computers all the necessary information, we would someday be able to get perfect weather forecasts."

Michal Kwizak, supervisor of numerical weather prediction, said that up to now it has been necessary to apply unaided human memory and intelligence to the reams of weather data that pour into the office. One disadvantage of this is that there is a limit to the amount of data and experience the human brain can store up and bring together into meaningful calculations.

Another is the time needed to do a thorough job. He said that 10 meteorologists, using pencil and paper to solve all the mathematical equations presented in one complete weather report from around the hemisphere, would have to work solidly for a year to come up with a 24-hour forecast.

**HELPS OTHER REGIONS**

To have a forecast ready when needed, meteorologists had to limit themselves to what they considered the most essential information.

The G-20 is leased by the meteorological branch of the department of transport from Computing Devices of Canada Limited, Ottawa. Mr. Leaver said it is expected to open up a wider field of weather analysis and forecasting to the meteorologists working at the central analysis office in Montreal.

Instead of putting any of them out of work, it would provide more work by making it possible to handle more data and prepare more thorough and more accurate weather reports and forecasts.

The Montreal office transmits, by wire, hemispheric weather maps and forecast charts to regional bureaus throughout Canada, which then combine this information with their knowledge of local conditions to work out detailed forecasts for their own areas.

Mr. Kwizak said: "The central analysis office has to concentrate on large-scale phenomena, to deal with weather systems throughout the hemisphere. We do not go into detail about thunderstorms, fog, snowfall and so on, as the regional bureaus do."

**ANNOUNCE GRANTS**

OTTAWA (CP) — The Canada Council has announced grants totalling $30,000 to six Canadian universities to help them offer special advanced instruction in the next year. Lecturers from six foreign countries will spend up to one year as visiting lecturers at Laval University; St. Joseph University, Moncton; McGill summer school of geology; and the universities of Montreal, Ottawa and Western Ontario. Under the plan, the council will pay half of their fee plus travel expenses. A total of 19 visiting lecturers will come to Canada under the plan.

# CONTRACT BRIDGE

By B. JAY BECKER

North dealer.
North-South vulnerable.

NORTH
♠ 64
♥ KQJ109
♦ QP3
♣ AQ5

WEST
♠ AK72
♥ 754
♦ 864
♣ 987

EAST
♠ 953
♥ A62
♦ 1072
♣ K632

SOUTH
♠ QJ105
♥ 83
♦ AKJ5
♣ J104

The bidding:

| North | East | South | West |
|---|---|---|---|
| 1♥ | Pass | 1♠ | Pass |
| 2♥ | Pass | 2NT | Pass |
| 3NT | | | |

Opening lead—nine of clubs.

Most mistakes made at the bridge table are simple ones. Some situations undoubtedly do arise in the bidding and play that require a high degree of skill, but in most hands the problems that occur can be solved easily on a common sense basis. These hands, being so numerous, are the ones that really count in establishing a player's status.

Look at this hand, for example, where South was in three notrump. West led a club and declarer played low from dummy, losing the finesse to the king. East returned the nine of spades, covered by the ten and king.

West now played the deuce of spades, the eight losing to the jack. South then led a heart, which East took with the ace. East returned a spade, and West, who now held the A-7 over South's Q-5, scored both spades to defeat the contract a trick. Declarer lost three spades, a heart and a club.

After giving full credit to the excellent defense, the fact still remains that South should have made the contract. He lost control of the hand very early—in fact, on the first trick.

Declarer was looking at nine solid tricks from the start of the hand, and all he had to do to make them was win the club lead and force out the ace of hearts. This would assure him of four heart tricks, four diamonds and a club, and no distribution of the adverse cards could possibly affect this result.

Probably the underlying reason for the error was that South saw an opportunity to finesse the club and reacted mechanically to it.

What he should have done instead was survey the hand as a whole before playing to the first trick. Had he done this, he would have seen that the play of the ace was bound to win the hand. He should not have allowed himself to be diverted from his goal by the temptation to finesse.

It pays to plan the play.

# Captain Of Lakes Cutter Reports Winter Difficult

By WILLIAM J. CONWAY

CHICAGO (AP)—It has been eerie out on the Great Lakes this long, hard winter.

"When you're on a ship you expect to see water," explained Richard J. Laflin, skipper of the coast guard cutter Arundel. "But you might work two weeks and never see blue water. Just white ice."

And "the worst is yet to come," in the opinion of a captain whose carferry bucks the heavy crusts.

Weather bureau records show that this is the third coldest winter since the turn of the century on the world's largest cluster of fresh-water lakes.

A recent survey found ice two to 48 inches thick. Early this month, the bureau reported, about 95 per cent of Lake Superior, Huron and Michigan were covered with ice, some narrow stretches were open and Lake Erie and floes coated much of Lake Ontario.

Laflin's cutter, equipped with an icebreaking prow, manoeuvres to the aid of all-season tankers that get stuck in Lake Michigan.

**DEPENDS ON WINDS**

Just how tough the going may be depends, in large part, on directions of the winds. Laflin said they blew mostly from the west this season and piled up ice on the eastern shore. The formations there ranged up to 20 feet thick, he said, with three or four feet visible and the bulk beneath the surface.

There is little traffic on the lakes in the coldest months. But some tankers, cross-lake carferries and coal-hauling vessels kept going despite the Arctic moratorium that froze over Lake Michigan from Milwaukee, Wis., to Muskegon, Mich., for the first time since 1936.

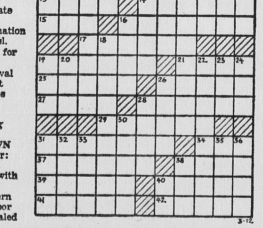
Capt. Henry M. Gates of the 412-foot carferry city of Midland termed ice conditions the worst in 22 years.

## RIPLEY'S BELIEVE IT OR NOT

# DAILY CROSSWORD

**ACROSS**
1. Variety of coffee
6. Divine
11. Benefit
12. Assumed name
13. Fix
14. Part of coat
15. Altar constellation
16. Movie house
17. Coercion
19. Earned
21. Trolley
25. Small size type: print
26. A grudge: colloq.
27. Bill of fare
28. Near the back
29. Most accurate
31. An explanation
34. Gun: sl.
37. Longs for
38. Keep
39. Medieval helmet
40. Of bees
41. Takes notice
42. Strong

**DOWN**
1. Mother: colloq.
2. Done with
3. Our northern neighbor
4. Concealed
5. Indian mulberry
6. Strong winds
7. Shrubs resembling the wild olive
8. Prescribed regimen
9. Wash
10. French river
14. Lean-to
16. Diagram of family descent
18. Untaught
19. Herd of whales
20. Mature
22. Check
23. Pepper shrub
24. Singer Torme
26. Omar Khayyam
28. Demands as payment
30. Stunted animals
31. Oriental nurse
32. Part of eagle's bill
33. Arrived
35. Elliptical
36. Refuse
38. Resort
40. Verb form of "to be"



Yesterday's Answer

# 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 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**

HJUJOM XN DLZEM ZHYNNYXE-YUBK ZHDXE SXN TSYLYTDKL XN RJHK.—UZDEKL

Yesterday's Cryptoquote: THE WISEST MAN SOMETIMES ACTS WEAKLY AND THE WEAKEST SOMETIMES WISELY.—CHESTERFIELD

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