# Solution To Space Problem Seen Tough By Astronaut

HOUSTON, Tex. (AP)—Astronaut Richard F. Gordon Jr. who predicted that man one day will work effectively in orbit despite problems which have curtailed his and other space walks.

"The problems will be solved, but it won't be easy," Gordon said as he and Charles (Pete) Conrad told a news conference about their three days in space aboard Gemini 11 earlier this month.

Gordon disclosed that he was tired even before he started his walk and reported "the biggest surprise of my life" when it took him 30 minutes to do a task which he had done in 30 seconds in simulated weightlessness on the ground.

"We'll be able to do repair and assembly work in space if we design the proper equipment," he predicted. "My experience told us a lot about working space."

The conference focused on Gordon's space walk, the only major trouble point in the mission, which raised the question whether man ever will be able to work effectively outside an orbiting vehicle.

**CUT IT SHORT**

Breathing and sweating heavily because of exhaustion, the navy lieutenant - commander scurried back to the safety of the Gemini 11 cabin after 44 minutes—far short of the intended 115 minutes outside.

Gordon said before the walk started he had difficulty attaching a sunshade visor to his space helmet because of his pressurized suit. He said Conrad had to help him.

"I was tired and had a pretty high heart rate before we opened the hatch," Gordon said.

"As soon as I opened the hatch, all the loose debris in the cabin went out and I started out with the debris. I said 'Hey, Pete, grab me, I'm leaving'."

"I grabbed his legs and held on to him," Conrad reported.

His first task after leaving the spacecraft was to straddle the nose of the Gemini, which was attached to the Agena, and secure one end of a 100-foot cord to the Gemini docking bar. The other end of the coiled line was fastened to the Agena.

"I sat astride the nose and was unable to stay there. . . ," Gordon said. "I kept riding up off. . . .

"All I had done in about 30 seconds (in simulations on earth) turned out to be a monumental task of about 30 minutes," Gordon said.

# ON THE AIR

**The following program listings are published free of charge as a public service and appear as presented to us by the stations concerned.**

## THURSDAY PROGRAMS

### CFCY-TV

1:30 p.m.—Musicale
2:00 p.m.—Emergency Ward 10
2:30 p.m.—Today at Home
3:00 p.m.—Take 30
3:30 p.m.—Edge of Night
4:00 p.m.—Communicate
4:31 p.m.—Mark of Zorro
5:00 p.m.—Wild Bill Hickok
5:25 p.m.—Carnation's Contest
5:30 p.m.—Music Hop
6:00 p.m.—Woody Woodpecke
6:30 p.m.—Gazette
7:00 p.m.—CFCY TV News
7:15 p.m.—Keyboard Melodies
7:30 p.m.—Love On A Rooftop
8:00 p.m.—Take A Chance
8:30 p.m.—The Third Man
9:00 p.m.—The Man From U.N.C.L.E. (Color)
10:00 p.m.—Telescope (Color)
10:30 p.m.—Hogan's Heroes (Color)
11:00 p.m.—Naked City
12:00 p.m.—CBC TV News
12:13 a.m.—Local Weather and Sport Scores
12:15 a.m.—Sign Off

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### CKCW-TV

9:57 a.m.—Station Sign On
10:00 a.m.—Canadian Schools
10:30 a.m.—Nova Scotia Schools
11:30 a.m.—Friendly Giant
11:45 a.m.—Chez Helene
12:00 a.m.—Butternut Square
12:25 p.m.—Emergency Ward 10
12:55 p.m.—CBC TV News
1:00 p.m.—Playbill—Cry Tough
2:30 p.m.—At Home With Hal Crocker
3:00 p.m.—Take Thirty
3:30 p.m.—Edge of Night
4:00 p.m.—Communicate
4:30 p.m.—Zorro
5:00 p.m.—Funtime
5:30 p.m.—Music Hop
6:00 p.m.—Supper Club
6:15 p.m.—LTV News
6:25 p.m.—LTV Weather
6:30 p.m.—LTV Sports
6:35 p.m.—Supepr Club
7:00 p.m.—Thursday Night At The Movies—Dangerous Youth
9:00 p.m.—Man From UNCLE
10:00 p.m.—Telescope
10:30 p.m.—Hogan's Heroes
11:00 p.m.—The Hawk
12:00 p.m.—CBC National News
12:20 a.m.—Viewpoint
12:25 a.m.—LTV News
12:35 a.m.—Sign Off

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### CFCY RADIO

**THURSDAY**

6.30—News and Weather
6.35—Morning Roundup
6.45—Island wr. and Mar. Temp.
6.46—Morning Roundup
6.55—News and Weather
7.00—Hebrew Christian Hour
7.15—Morning Roundup
7.30—News and Weather
7.35—Farm Report
7.35—Farm Report
7.41—Morning Roundup
7.45—Island Wr. and Mar. Temp.
7.46—Morning Roundup
7.56—Sports Capsule and Scoreboard
8.00—News
8.55—Weather
8.16—Morning Roundup
8.45—Weather
9.10—Notes and Music
9.15—Assignment
10.00—News and Weather
10.05—Notes and Music
10.30—Preview Commentary
10.35—Notes and Music
11.00—News and Weather
11.05—News and Views on Groceries
11.20—Notes and Music
11.30—Notes and Music
1.45—Town and Country Time
2.00—News and Weather
2.05—Mostly Music
2.30—Assignment
2.35—Mostly Music
2.58—Thought For Today
3.00—News Headlines and Weather
3.30—Pop Caravan
4.00—News Headlines and Weather
4.03—Canadian Roundup—CBC
4.40—Pop Caravan
5.00—News and Weather
5.05—The Outports
5.25.20—Marine Weather
5.28—The Outports
5.45—Sports Capsule and Scoreboard
5.50—The Outports
6.00—News and Weather
6.10—Tonight's Music
6.35—Tonight's Music
6.30—Business Barometer
7.00—Back To The Bible
7:30—News and Weather
8.00—Choris In Concert—CBC
8.30—Music Diary—CBC
9.00—Symphony Orchestra
10.00—CBC Nat. News, on Par. H. and Speaking Personally—CBC
10.15—Today's Editorial and Speaking Personally
10.30—Starlight Serenade
11.00—News and Weather
11.35—Starlight Serenade
11.45—Bulletin Board
11.50—Notes and Music
11.55—Agriculture '66
12.00—Weather
12.05—Town and Country Time
12.15—6.30—News and Music—CBC
12.30—News and Weather
12.43—P.E.I. Road Report
12.45—Town and Country Time
1.00—News and Weather
1.15—Gordie Tapp Show—CBC

### CBA RADIO

**THURSDAY**

6.00—The Morning Show Part 1
7.00—CBC News
7.03—Inland Weather, Sports Scores
7.06—Music
7.27—Inland Weather, Sports Scores
7.30—Lift Up Your Hearts
7.40—Music
7.45—It Happened Today
7.46—Music
8.00—CBC News
8.12—Regional Weather
8.16—Maritime Sportscast
8.21—Music
8.55—Weather
9:00—CBC News
9:10—Commentary
9:15—Assignment
9:21—A.M. Chronicle
10.45—TBA
11:00—CBC News
11:05—Joan Marshall
11:15—For Consumers
11.20—Hints To The Homemakers
11:30—The Archers
11.45—On The Sunny Side
11:55—Assignment
12.00—CBC News
12:30—Maritime Farm Broadcast
1:00—CBC News and Weather
1.15—Swing Easy
1.45—The Open Road Show
1:59—D.O. Time Signal
2:00—Time Out For Melody
2.45—The Feminine Touch
2:30—Atlantic School Bcast "Adventures in Song"
2.45—John Drainie Tells A Story
3:00—CBC News
3.03—Matinee with Pat Patterson
4:00—CBC News
4:03—Canadian Roundup
4:10—Music In The Air
4:30—Assignment
4:35—Music In The Air
5.00—CBC News
5.03—Mar Fish Broadcast
5.25—Notebook
5:35—Assignment
5:45—Tempo and Notebo
6:00—CBC News
6:15—On Parliament Hill
6:20—Today's Editorial
6.25—Business Barometer
6.30—Inland Weather
6.31—Music Scene
7.00—CBC News
8.00—News
8.03—Music Diary
8.30—Chamber Music
9.00—Summer Concert—Music for String Orch.
10:00—CBC National News
10:15—Today's Editorial and Speaking Personally
10.30—Anthology
11.00—CBC News
11.03—Labour Pains
11.30—Concert Album
12:00—CBC News
12:03—Sports Scores, Inland and Marine Weather
12:15—Music In The Night

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# Mechanical Heart Is Ready To Be Tried Out On Patient

INDIANAPOLIS, Ind. (AP)—A team of Indiana University medical school scientists have announced they have developed a complete mechanical heart and are ready to implant it in a patient who otherwise would certainly die.

It has performed efficiently, without bad side effects, in short-term animal experiments.

The project was different from that of other groups who have been designing and testing devices or pumps to ease the load of a diseased—but not hopelessly damaged—heart.

The Indiana project has been a close collaboration of physicians and engineers, headed by Dr. Harris B. Shumacker Jr., chairman of the school's department of surgery, and Dr. Winton H. Burns, who initiated and co-ordinated the work.

**WAIT FOR LAST MOMENT**

The investigators said in a statement that they had no intention of removing a patient's heart and substituting the new device "until it is made necessary by an obviously hopeless clinical situation."

They said:

"We hope that we can defer clinical implantation until the mechanical heart is as refined and as nearly perfect as possible. No matter how satisfied we may become with the heart, we would not use it if there appeared to be any chance of recovery without its use."

Drs. Shumacker and Burns said the implantation is not too difficult and the first part of the operation "is just like any open-heart operation.'

The mechanical heart is only slightly larger than the human heart and approaches it in efficiency, the team said. The power source is an electric motor, 1 4-5 inches by about one inch, which is attached to a wire brought through the body wall to a battery which can be carried in a brief case.

The scientists' future plans include development of a power transmission system which will not need wires —possibly with microwaves. It also will investigate the possibility of implantable power sources such as atomic batteries.

# RICHMOND

Roddy Morrison, Fredericton, N. B., recently spent his holidays visiting with his parents, Mr. and Mrs. Michael Morrison, Grand River.

Ronnie Gallant, Junior Science student at S.D.U. spent the week-end with his mother, Mrs. Emily Gallant, and his brother, Gerald at Richmond.

The students from this community attending the Miscouche Regional High School have resumed their studies following a two week vacation to help with the potato harvest.

Mary MQuaid, Charlottetown, spend the week-end with her parents, Mr. and Mrs. Herbert McQuaid, Richmond.

Recent visitors at the home of Mr. and Mrs. Alex Clark, Richmond were Mrs. Clark's brother Joey Bolger, Mrs. Bolger and their two children from Massachusetts, Mr. and Mrs. Bolger and children stopped off at Greenwood, N. S., to visit Mr. Bolger's brother, Jack and family who have been posted to the base at Greenwood recently.

Mr. and Mrs. Leonard C. McNeill, Richmond have received word from their son Clarence that he has been posted from the Centralia, Ont., armed forces base to the Camp Borden, Ont., base. The base at Centralia has recently been closed. Clarence and his wife (the former Aldiene Ramsay, St. Eleanors)) and their six children have taken up residence on the base at Camp Borden.

## 4 KILLED BY TRAIN

IDAR - OBERSTEIN, West Germany (Reuters) — An express train thundered into a group of persons at a local station near here Tuesday, killing two women and two children. Railway officials said the four dead—including a mother and two of her three children—had stepped from a local train standing at a stop signal outside the station waiting for the Frankfurt - Saarbruecken express to pass.

## RIPLEY'S BELIEVE IT OR NOT

# DAILY CROSSWORD

**ACROSS**
1. Brother of Abel
5. Namesakes of an early refuges
9. Ointment
10. Endures
12. Drama
13. Hurry
14. Norse goddess of healing
15. Gasp
16. Mother of Presidents state: abbr.
17. Current
18. Belt
19. Plead
20. Russian coin
22. Footed vases
23. Acute
25. Molt
27. Revise once more
30. Roman money
31. Bound
32. Mother: colloq.
33. Possessive pronoun
34. Body of water
35. Knave of clubs in loo
36. Affixing
38. Immense
39. Lift
40. Ten-cent pieces
41. Affirmative votes
42. Wine receptacles

**DOWN**
1. Cotton cloth
2. Wingiike
3. A climbing plant
4. Compass point
5. Antelope of Africa
6. Of great extent
7. Superlative ending
8. Man's name
9. Talk
11. Rough projections
13. Restless longing
16. Agreement
18. Flex
19. Raised
21. Pastry desserts
22. Employed
24. Require
26. Island in the Philippines
28. Life's prime
29. Semblances
30. Domesticates
31. Harmonizes
33. Restless
34. "Leaning Tower" city
35. Cougar
37. Perish
38. Pronoun
40. Prosecutor: abbr.

DIP JAM
PANE APIT
ORKNEY SCAN
VIL SLAM ALE
ODD SLASHED
LEER ELK
ODEUM LIMBS
SEL POOP
JITTERS ARE
OBI TIKE NE
BIDE PARTED
SARE MISO
LID END

Yesterday's Answer



**DAILY CRYPTOQUOTE — Here's how to work it:**
A X Y D L B A A X B
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**

O A W N T N R N K O V N M E O H T O E W B A, L M B V I Z O R Y M A V E B W B A A O I N R Z H B W R N E B A.—Y O W O D R O Z

Yesterday's Cryptoquote: WE HAVE KISS'D AWAY KINGDOMS AND PROVINCES.—SHAKESPEARE

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# CONTRACT BRIDGE

By B. JAY BECKER

East dealer.
Both sides vulnerable.

NORTH
♠ 10 9 5 4 2
♥ 8
♦ 9 6 2
♣ A K J 6

WEST
♠ Q
♥ Q J 9 7 4
♦ A 7 5
♣ 10 8 5 3

EAST
♠ K J
♥ K 8 6 5 2
♦ Q J 10 4
♣ 7 4

SOUTH
♠ A 8 7 6 3
♥ A 10
♦ K 8 3
♣ Q 9 2

The bidding:

| East | South | West | North |
|---|---|---|---|
| Pass | 1 ♠ | Pass | 4 ♠ |

Opening lea- — queen of hearts.

Let's say you're declarer at four spades and West leads a heart which you win with the ace. There doesn't seem to be much to the play of the hand, so let's assume you first cash the ace of trumps, ruff a heart in dummy, and then start to run the clubs, hoping to discard a diamond on dummy's fourth club before somebody ruffs.

But East unkindly interrupts the procession of clubs, ruffing the third one, and then is mean enough to lead the queen of diamonds through your king, so that you wind up going down one.

You could charge the result to bad luck without being far off the mark. After all, West could have had the high trump instead of East, and this would have given you the contract with an overtrick. Similarly, East could have had the ace of diamonds instead of West, and in that case you also would have made eleven tricks instead of nine.

But just the same, if you played the hand as described, you didn't try hard enough. What you should have done was ruff a heart in dummy at trick two, lead a trump, and then play low when East followed suit with the jack.

West would have been forced to take the jack with the queen, and you would then have been on East street. Regardless of which suit West elected to return, you could draw the missing trump and eventually discard a diamond on the fourth club.

The recommended method of play is altogether consistent with the thought of keeping East the danger hand, out of the lead.

It is true that East might frustrate your plan by playing the king instead of the jack on the early trump lead from dummy, but, even so, you ought to give him this chance to shine instead of making things easy for him. If he is smart enough to put up the king, you should arrange to change partners as soon as possible and start playing with him, not against him.

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