

# Shattering Force To Launch Man on First Flight Into Outer Space

## STAR GAZER

By CLAY R. POLLAN

Year Daily Activity Guide  
According to the Stars.  
To develop message for Saturday, read words corresponding to numbers of your Zodiac birth sign.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117	118	119	120

## No Second Chance To Correct Error On Reentry Try

Editor's note: Following is the last of five chapters about plans of the United States to be the first nation to send a man into outer space. In preceding chapters, Martin Caidin pointed to the need for haste if the U.S. is to be the first nation to accomplish the feat. He wrote that the first man will be a perfect physical specimen, will be found in the ranks of test pilots and will undergo a physically demanding training program. Yesterday Caidin said that the X-15 rocket will be easily adaptable for the space trip, adding that the pilot will be under great physical strain while in flight.

By MARTIN CAIDIN  
(Written for United Press International. Copyright 1958 by UPI)

The years of preparation have reached their climax. Within the cramped and pressurized X-15 cabin, tightly strapped to his seat, Capt. James T. Randall, USAF, listens through his earphones as the blockhouse controller counts down to zero, and intones "FIRE!"

A searing lance appears beneath the Navaho booster, mushrooming into a thick, flaming stream. The volcano erupts with shattering force. White fire, so intense and savage that it is cradled with shock waves, crashes down through the curving blast tube. A terrible shock of sound explodes outward past Cape Canaveral, bursts over the Atlantic.

The fire pillar lengthens, a hellish column pushing the massive Navaho booster away from the earth. Glaring flames splash across the cradle, caress steel and concrete, then stab only air.

Howling in fury the Navaho accelerates rapidly, running away from earth. Inside the X-15 cabin a giant hand closes its grip on Jim Randall's body, squeezes. Gravity forces climb steadily, reach 6-g's, waver and hold. All this time Randall rests, his fingers poised by armrest controls, but his hand remains still. An electronic brain controls his flight. So precise and demanding are the flight maneuvers during climbout that no human pilot is adequate to the task. Jim Randall will blow the X-15 away from the booster only if disaster strikes.

**Purple Flame Trails**  
It doesn't roar up into high, thin air, trailing a double-fan of brilliant purple flame, the Navaho booster lifts in its climb. An accelerometer and other instruments feed data into the electronic brain; abruptly valves snap closed. Explosive bolts free the X-15, and an electronic command automatically fires the great motor. Again the sudden surge of acceleration. Now on its own, the X-15 hurtles faster and faster, soaring in a great arc over the earth.

A signal flashes to the electronic brain. Velocity—18,000 MPH. Five miles every second! Again valves snap down, fuel flow stops, and the screaming rocket motor dies. Instantly Randall is flung forward from a four-gravity acceleration to weightlessness. The sudden disappearance of the g-force is so great that he seems to be slammed against his straps.

**Now in Orbit**  
Totally weightless, Jim Randall is in orbit about the earth at five miles a second. He is in vacuum, in utter silence. Outside the thin walls of his cabin is outer space. It is an eerie sensation.

The X-15 tumbles slowly. Randall works his jet reactors, rights the spaceship so that its nose points along his path of flight. He checks instruments, speaks with the earthbound communications trackers. He has work to do, and attends to his duties. Then he looks down.

The giant world below is wrapped in darkness, an enveloping black cloak pierced in the far distance by gleaming pools of light. The sight is fantastic. The glowing jewels on the surface are the great cities of southern Europe, seen from 300 miles out into space. Randall stares

farther to the east, to the direction in which he hurtles. There the night vault over eastern Europe and the Far East is being rolled away. Randall watches the silent advance of dawn, a crimson tidal wave sweeping relentlessly over the planet. In less than 90 minutes, he will see that dawn again!

**To Be Brief Flight**  
This first flight into orbit with a man is to be brief, measured only in hours. Randall studies a special panel before him. Deep within the ship electronic equipment and special instruments interpret his position over the earth, his velocity, his angle to the surface, and other vital data. The control panel feeds information to him, tells him exactly when to begin his return to earth. At the precise moment, with the X-15 pointed straight ahead, Randall braces himself, and flicks a firing switch. Brilliant flame from nose-mounted retro-rockets decelerates the hurtling spaceship, destroying its fine balance between centrifugal force and gravity that has kept it in orbit. The X-15 begins to fall. Now begins the most dangerous part of the flight.

Randall must bring the X-15 back into the atmosphere, with a speed greater than 16,000 MPH, at exactly the right angle of entry. At his tremendous velocity, too steep an angle will result in a savage deceleration force, enough to injure and perhaps kill him. So severe will be the resulting friction that the X-15 will plunge into a thermal reef in the upper skies—friction so violent that the X-15 may be consumed in a sudden streaming blaze, as are large meteors. If his entry is too shallow, the X-15 will "skip" suddenly, as a flat stone skips over water. While this will not damage the airplane, it may destroy his carefully-planned descent, and bring him to earth over mountains or even over the ocean.

**Fights Shock Waves**  
Randall fights the battering rams of hypersonic shock waves. These enigmatic forces of hypersonic flight cause wild buffeting to an airplane. He gauges his descent with exacting precision, for even a proper re-entry angle means that the X-15 will be heated to more than 1,000 degrees! Randall sees the wings and nose actually glowing red hot from friction!

He struggles to control his ship in its turbulent flight. To lose control could cause it to slam broadside into the atmosphere with such violence that it would be torn to shreds. The entire descent must be made with precision—Jim Randall has no second chances if an error is made.

But everything goes according to plan. Jim Randall completes his trajectory. At low altitude the X-15 slips back into safe, subsonic speed. He glides in wide, lazy circles toward the long, dry lake bed of Edwards Air Force Base. Here he deadsticks the X-15 in gently to its landing from history's first manned space flight.

When will this flight really take place? Exactly when is a military secret. For the sake of our space program, of our own security, we cannot delay too long. The Russian schedule for the conquest of space calls for a man to be landed on the moon by 1965.

They haven't any time to waste, either.

Biggest irrigation reservoir using Rio Grande river water is located at Elephant Butte in New Mexico.

## The Family Council

Editor's note: The Family Council consists of a judge, a psychiatrist, three clergymen, a newspaper editor, a women's editor and two writers. Each article is a summary of an actual report. The Family Council does not give advice; it merely reports on problems that have been dealt with by responsible agencies and counselors.

Barbara D. — Lola should leave Mark.

Lola M.—It is too late to make my life over.

Barbara D.—For 15 years my sister has been married to a man who has given her nothing but misery. I think she would be a fool if she goes on in this way any longer—especially in view of the fact that she has no children and can support herself.

Lola married Mark when she was 18. Our parents saw at once that he was no good and would never support her properly or be a decent husband. He didn't want to have children and Lola went to work right away and has been working all these years.

Mark has taken a very antagonistic attitude toward the whole family and has drawn Lola away from us. Recently she confessed to me he has been drinking too much and she felt she couldn't put up with it any longer, yet she doesn't want to leave him.

Lola M.—My family doesn't realize I have tried to leave Mark many times in the past few years, but I find myself always running back to him.

I really don't know why I feel so tied to him. I just feel I can't be without him in spite of the fact that he has poisoned most of the love I once had for him.

I guess one reason I feel so tied to him is that Mark needs me so much. He is absolutely helpless about taking care of himself.

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

## Love and Marriage Not in Dreams of Most Miss Universe Contest Hopefuls

Long Beach, Calif.—(UPI)—Put away the wolf whistles, men.

This year's Miss Universe contestants, who opened their seventh annual competition Thursday, are infused with higher aspirations than such old-fashioned ones as love and marriage.

Take, for instance, Miss England, Dorothy Hazeldine, 19. Her ambition is "to own a lovely convertible car" some day.

Wants FBI Post  
Or Miss Vermont, Doreen Patricia McNamee, 20. She wants "to be a secretary for the FBI in Washington."

Miss Israel, Miriam Hadar, 21, wants "to become an international lawyer."

And Miss Massachusetts, Sally Ann Freedman, 18, hopes to "obtain a well-rounded education and to make a success of my career." She goes to college.

Miss North Carolina, Carol Jean Edwards, 18, hopes "to reach the goals I am capable of achieving" although she's not quite sure what the goals are yet.

Miss Maine, Karen Louise Hanson, 19, wants to "own a nice home and a car and enjoy a beautiful life." She loves ice cream.

Miss Michigan, Shirley Ann Black, 19, hopes "to travel around the world, finish col-

lege, work for the government in a foreign country and write a book about it." She also plays the clarinet.

Two Asian beauties held fast to older traditions. A truthful housewife

Miss Japan, Tomoko Moritake, 20, has the single desire of becoming "a truthful housewife." Miss Korea, Keum

Soon Oh, 18, is determined to be a "good mother."

Perhaps the most frank statement came from Armenia Perez Y Gonzales, 21, who comes from Cuba, where they do things more directly.

"I want to win the Miss Universe contest and get a Hollywood screen test," she said.

## Feeding the Family

By ZOLA VINCENT  
Food Editor

**Black Avocados**  
Avocados, as most west coasters know, come in a variety of color tones according to the season. Just now the Hass variety, which has slightly pebbled skin, is rolling in abundance. We mention this because a newly arrived Easterner asked us what it was. She was surprised to learn that all avocados aren't green.

The black or Hass avocado being heavier skinned, is prepared most easily by getting the fruit lengthwise into quarters, removing seed, then peeling. I deal in avocados simply with lemon juice and salt, avocados are also good in sandwiches, salads; delightful in canape spreads and seafood cocktails. There are even those who fry them, but we haven't tried it yet.

**Apricot Conserve**  
Few in quantity, more costly than usual, apricots nevertheless are highly prized by many for making conserve.

Better hurry if you're going to put up a few. This is the recipe most likely to be used. We suggest glasses or half pint jars.

4 pounds apricots  
6 oranges  
1/2 lemon, juiced  
1 cup white raisins  
3 pounds sugar  
1 cup blanched almonds, chopped

Peel three of the oranges and cut into sections, removing the membranes. Juice the remaining three oranges and grate the rind of one of them. Cut the apricots in half, removing the seeds. Do not peel. Combine in a kettle with raisins and sugar. Cook until thick, stirring often. Add the almonds and continue cooking five more minutes. Pour into hot sterilized glasses or half mouth jars and seal with hot paraffin.

**Head to Toe**  
Head, calf, mutton and pork tongues aren't fully appreciated and it seems too bad. They're easily cooked simply by simmering, have a distinctive flavor and slice easily. A quick sauce for fresh or smoked tongue, served either hot or cold, combines a little horseradish, some capers and lemon juice mixed with hot or cold mayonnaise.

**Boiled Beef Sole**  
For cool, quick, breiler cooking, we think of nothing that surpasses pan-ready sole which is very reasonably priced. Serve with a tossed salad or a cabbage and carrot slaw, broiled tomato halves and for dessert fill cantaloupe halves with lemon or lime sherbet.

Figure on half pound per person. Season fish liberally with salt and pepper. Rub over with melted butter or cooking oil. Place on aluminum foil on rack close to flame at first to sear the surface quickly. Gradually move to low position as the fish cooks.

When golden brown and cooked, remove fish to a hot platter. Slightly broil three tablespoons butter or margarine to which add finely chopped parsley and one tablespoon lemon juice. Pour over fish. Garnish with plenty of lemon.

**Lemon Meat Loaf**  
Now is the time for a good loaf; a meat loaf, that is. Lemon juice and rind of the lemon give flavor interest to ground meat which can be all lean pork or a combination of pork and beef.

Combine 1 1/2 pounds lean ground pork or a combination of pork and hamburger,

two slightly beaten eggs, the juice of one lemon, grated rind of the lemon, one-half cup cracker crumbs, salt and pepper to taste. Maybe a bit of oregano. Cover with tomatoes or stewed tomatoes from a No. 2 can; strip with bacon slices. Bake covered in a slow oven, 250 degrees, for two hours. Remove cover, pour one-half cup undiluted canned milk over loaf and continue baking uncovered for 30 minutes.

**Lamb Shaslik**  
For each four servings of delectable lamb on a skewer, cut one pound lamb shoulder into one-inch cubes and four slices bacon into one-inch pieces. Alternate lamb cubes, bacon and small onions on four skewers. Broil three inches from source of heat about 15 minutes, turning to brown evenly (use tongs for turning). Season generously with salt and pepper.

**Market Report Suggests Many Fresh Vegetables**  
The wealth of available vegetables causes us to seek new flavor combinations, new color interest, varied textures for serving hot and for chilling and tossing in a salad bowl or arranging on beds, shreds or leaves of lettuce, romaine, escarole or other greens.

**Cooking Duos.** Here are "cooking" duos to be combined either fresh or as leftovers: peas and corn cut from the cob . . . spinach and mushrooms . . . lima beans and onions, diced . . . spinach and shredded carrots . . . peas and chopped celery . . . corn cut from the cob and tomatoes. For superlative eating and best flavor, simply simmer quickly in minimum of water, add butter salt and pepper and serve hot. These combinations react nicely to a dash of cinnamon, too.

**Salad Combos.** For maximum appetite appeal, chill all ingredients; provide plenty of refreshing tartness in the body of the salad or in the dressing. Shredded cabbage, cucumber cubes, celery slivers . . . cooked whole-kernel corn, shredded snap beans, sweet pickles and onion rings . . . grated carrots, diced celery, cucumber slices . . . spinach, endive or lettuce with tomato wedges . . . spinach leaves, shredded carrots, sliced green onions and radish slices.

**Fruit Displays.** Cantaloupes, honeydews and watermelons for the chilling (and a slight monetary consideration) . . . peaches for eating out of hand, for peaches and ice cream, for peach pies and peach cobbler . . . strawberries and Boysenberries for enjoying now and "putting up" for later . . . pebbled, black skinned avocados . . . a few plums and apricots, neither likely to be bargain-priced because demand far exceeds supply.

**Meat Situation.** We've been saying this for months, say it again. Poultry is the best buy. Fryers, broilers and new crop turkeys available whole, halved, quartered and in parts are reasonable, often "special." Shopping will reveal the best buys in beef, lamb and pork which vary from market to market, day to day. Consider frankfurters, hamburgers, canned or delicatessen packaged cold cuts once or twice a week. Fish buys are fish sticks, flounder, halibut, rockfish, sablefish, salmon and shrimp.

A stream in California is known as the West Fork of the South Fork of the North Fork of the San Joaquin river.

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.

She told herself she was giving in to her husband's wishes, but we wonder whether these wishes might not really have been her own.

A woman who wants children usually doesn't give in so readily on this subject. Lola simply did as she was told.

In this way, Lola has escaped all responsibility in her own eyes for the shaping of her life. If her married life is "miserable" she can blame it on her husband. It is not as

Each time I have gone away and then came back I have found him living in awful filth and there was nothing to eat in the house. I believe he would just die if I didn't come back to take care of him.

The Council: Lola should recognize that the question isn't whether or not it is too late to make her life over. The question is whether she is going to try to create her life at all.

Until this time Lola has evidently been swimming with the tide. She saw there were many things wrong with her marriage from the beginning, yet she evidently did nothing to change things.