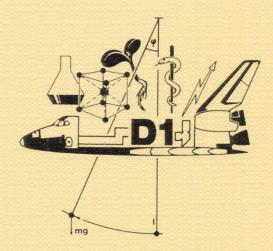
# **CREW LT BOOK**



DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FÜR LUFT- UND RAUMFAHRT POSTFACH 90 60 58, 5000 KÖLN 90 PAYLOAD OPERATIONS DOCUMENT REF CODE: D1-OP-PR-129-RF ISSUE NO: FINAL REVISION: DATE: OCTOBER 30, 85





# PAYLOAD FLIGHT DATA FILE

## PAYLOAD OPERATIONS

SPACELAB MISSION D1

LEISURE TIME BOOK

### FINAL

OCT 30, 1985

PREPARED BY:

D1 - MOST

APPROVED BY:

lorga

DR. W. WYBORNY, DFVLR, D1 PAYLOAD OPERATIONS DIRECTOR

All proposed changes and comments to this document should be submitted to W. Wyborny, telephone 02203-601-2454

Principal parties of the second of the secon Pally . 10 Le Bunos Minihi the fact + we w







OH GOTT, JETZT SIND AUCH NOCH DIE DEUTSCHEN DABEI!



I JUST DON'T KNOW WHAT TO DO! JIM KEEPS FALLING ASLEEP DURING PRESS CONFERENCES!

BUCHLI NASA

STRUE





READ A D1-PROCEDURE AND YOU WILL CRY BITTERLY!

FURRER

NASA



A YEAR AGO I REALLY THOUGHT I WOULD DEDICATE MY LIFE TO SPACE FLLIGHTS, BUT ..... ! ż me

LEFT - LEFT - DOWN LEFT --- DOWN CENTRE .... F I R E !!!

0





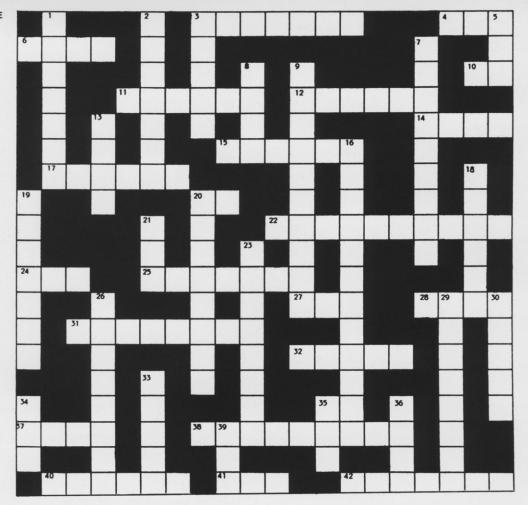
#### ACROSS

- 1. Civilian, born in San Jose, Costa Rica, Astronaut Group 9.
- 2. He made his second flight in July 1969.
- 4. Commander of Columbia's second mission.
- 5. Apollo 11 CMP.
- 8. First flight in 1973; 1427hr 9min 4sec.
- 10. He commanded three Shuttle missions.
- 11. He was at DFVLR-Cologne on launch day of STS-9.
- 14. First woman onboard Challenger.
- 15. First name, made 6 space flights.
- 16. First postmaster on the moon.
- 18. First name; 4th man on the moon.
- 20. Mission Specialist onboard STS-6.
- 23. Commander on STS-4.
- 25. SKYLAB SL-3 Commander.
- 26. esa-science astronaut.
- 28. He informed Houston MCC: "Houston, we have a problem."
- 29. STS-1 Pilot; nickname.
- 30. Youngest astronaut; Group 10; born 1956.
- 32. MS onboard Spacelab-1.
- 33. First scientist on the moon.
- 36. First name; MS Mission 41-G.
- 37. First name; EVA in February 1984.
- 38. First name; Pilot on Mission 41-G.
- 40. First name: Assigned as Pilot for Space Shuttle missin 51-G.
- 42. Mission Specialist on Space Shuttle mission 51-F.
- 44. STS-8 Commander.
- 46. He made his first flight with Hank's second Shuttle mission.
- 48. David C.
- 49. She made an MMU-EVA.
- On America's 206th birthday he was welcomed by President Reagan and his wife Nancy, one hour after landing.
- 51. Apollo 17 CMP.
- 55a. Sultan Al-\_\_\_\_.
- 57. Currently serves as Director, Space and Life Sciences, JSC.
- 59. STS-astronaut; resigned from NASA.
- 60. Commander, Spacelab 2 mission.
- 61. Commander in June 1985.

#### DOWN

- 1. Pilot Mission 51-E.
- 3. First American in Earth orbit.
- 6. 8th man on the moon.
- 7. Commander of Challenger's maiden flight.
- 9. 6th man on the moon.
- 11. First name: America's first woman in space.
- 12. STS-astronaut; resigned from NASA.
- 13. Karol J. \_\_\_.
- 14. She is called J.R..
- 17. Spacelab-3 MS.
- 19. Flew on 41-C.
- 20. Bruce \_\_\_\_\_ II.
- 21. Studied in Kiel, West Germany.
- 22. First name; second man on the moon.
- 24. Spacelab-3 MS. First name.
- 27. Shocked the Recovery Force on May 24, 1962.
- First name; B.S. in mathematics and statistics, B.A. in chemistry, M.B.A. in operations analysis and computer programming M.S. in physiologyand biophysics, M.D..
- 34. Died on January 27th, 1967.
- 35. First name: Original Seven Astronaut.
- 39. First name; 7th man on the moon.
- 40. MS onboard STS-8.
- 41. Nickname; MR-4 astronaut.
- 43. E. Graveline.
- 45. DFVLR-science astronaut.
- 47. MS onboard Mission 51-D.
- 48. MS onboard Spacelab-2.
- 52. bin Salman bin Abbul Aziz Al Saud.
- 53. James A. Mc \_.
- 54. Commander; last SKYLAB mission.
- 55b. Drove first LRV on the moon.
- 56. SKYLAB-4 crew member.
- 57. First name, OFT-Commander.
- 58. He did the last Mercury mission in May 1963.

SPACE CROSSWORD PUZZLE





Manchmal habe ich das Gefühl, daß da jemand von Innen nach Außen drückt.



3

Das haben wir gleich. Ich fühle schon was!

1

Ja, da ist es! Da ist ein Mann im Ohr !!!



DO YOU REALLY MEAN TO TELL ME THERE ARE LIVING CREATURES IN HERE?

2

-----

NCUBATOR B

5:0

AGAIN AND AGAIN, EVERYTHING WE HAVE TO DO BY OURSELVES!

Treas

RIO

ERSTE DEUTSCHE SPACELAB-MISS



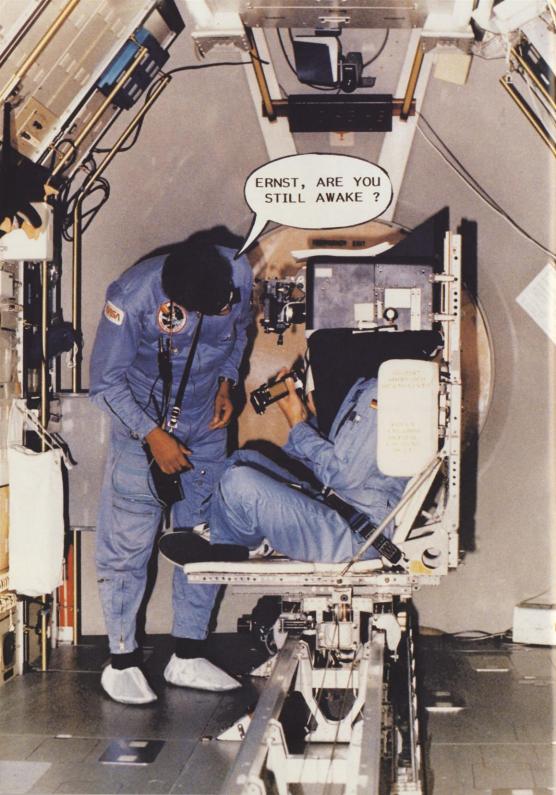
DIESE AMERIKANISCHEN HOSENTRÄGER SIND JA GANZ NETT, ABER DIE BAYRISCHEN GEFALLEN MIR BESSER! ES IST EIN KLEINER SCHRITT FÜR UNS, ABER EIN RIESENSPRUNG FÜR DIE BUNDESDEUTSCHE WISSEN-SCHAFT.



ALWAYS THIS DRY FOOD WITHOUT A DRINK ...

č,

CI.





Frankly, guys, I am somewhat surprised that I finally got my arms around this mission! In orbit during mission 61A WENN WIR DEN COFFEINGEHALT BEIBEHALTEN, DEN ZUCKERGEHALT ERHÖHEN, DANN KÖNNTEN WIR DIE KRISTALLBILDUNG BESCHLEUNIGEN!

Coke

EXPERIMENT D1-COKE 1-USA: BUBBLE MOTIONS IN COKE UNDER MICROGRAVITY. EITHER YOU DO NOW THIS EXPERIMENT OR GO FINALLY TO SLEEP!

aga

9

NIE WIEDER APFELSTRUDEL!

6.4

¢

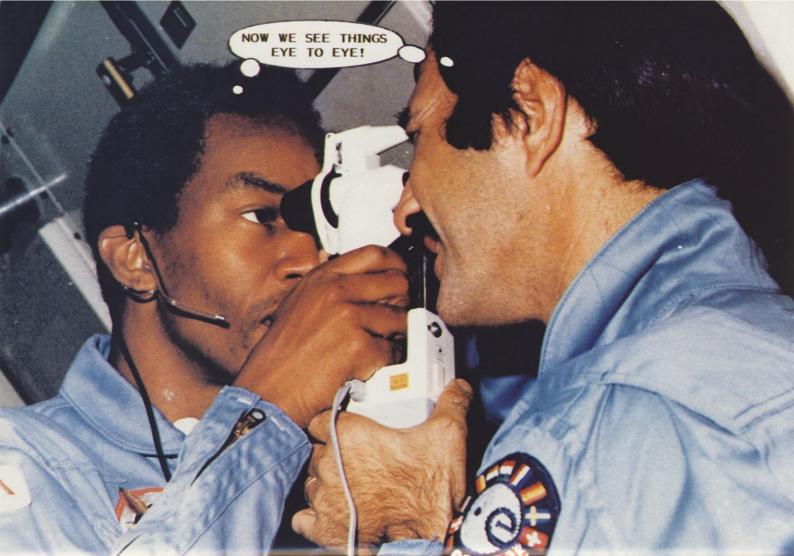
11.

ICH BIN HIER! MUSS NUR NOCH EBEN TELEFONIEREN!

EXIT

. The

proves.



I NEVER UNDERSTAND HOW THE OPS GUYS DID THIS ... BEST PEEP SHOW I EVER SAW!

CALLLUL LULINS

...

DEVLA

119

GROSSWORD-RATSEL	CWP-1/LT- TBD	<u>00</u> 1	Remove pencil from intermediate stowage with right hand sw - cw	Eventual location: Left upper arm
PREFACE			<pre>with right hand sw - cw * * * NOTE: * Left-hander the other way * round (sw - ccw) * * *******************************</pre>	•
This crossword-Rätsel is designed	MF71M	2	Obtain FDF LT-book	
to be a				
Team-Effort	TBD DRW1	3	Brain sw - ON	Location: somewhere above neck (depending)
und die Sprache is the Dl-slang		4	Mental attitude √ Seriousness sw - OFF	
Ger-glish.		5	PTT √ sw - off	
Sometimes muß man two or three times um die Ecke denken.		6	Solve the D! Kreuzwort-Puzzle	Time: 🕶
* <u>CAUTION</u> * * <u>CAUTION</u> * * The GO for Reentry Burn *	0g	7 8	Report successful completion on A/G 1, A/G 2 and ICOM simultaneously Relax V Brain sw - OFF	
<pre>* will be given only after * * complete and correct * * answer to all questions! * *</pre>			END OF PROCEDURE	

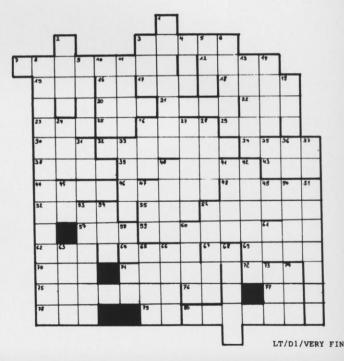
#### WAAGERECHT

(3) If too little of it is in the loop, you're gonna feel warm (7) A certain predecessor to Mr. C., but not the one of 1492 (12) Close to Quebec (15) skips sometimes (16) sort of goodbys to PC (short) (17) bothers in sims, but only shortly (18) Bei Busch wendet er sich mit Grausen (20) ancient title between  $30^{\circ}$  -  $60^{\circ}$  E, 12<sup>o</sup> -32° N (21) sometimes it is useful for work (22) Think of: wild west, God's own country (23) Herrn Kirschs Hobby on D1 (25) Never say it on a loop (26) Notwendig für 23, rockt zwar nicht, aber rollt bei manchen Leuten (29) Son of Isaak, minus radioactive heavy metal, now space-active (30) Even astronauts do it, on ground and on 68 (32) Europäischer Gemischtwarenladen in Zellen, mit Handschuhen (34) Develops hi tech in Deutschlands Norden (38) Reversed hosiery, enables MS's to monitor and control (39) You will be this to come home after GO for mission day 10 (43) Einer der -bolde (44) Being tracked, observed, celebrated, interviewed (46) close to Quebec, the other side (48) What would a frightened person say calling the Houston CIC (52) Close to 64, valid only on the way up and down, not around (55) Er und Moritz machten Schneider, Bäcker und Witwen berühmt (56) Es gibt zwar eine Uhr in 27, aber dieser Teil fehlt ihr (57) not rock'n ..., but ... and this (59) Sobick wants to see it protoplasmic (62) Romans mnemonic data management system (64) not quite so close to Quebec (67) She was once considered 11 on a scale from 1 to Ten (69) Sort of ballpark (70) Shows you what 69 you are in (71) Vielgefragter location code im FDF (72) If 15 is it, PI is in bad luck. Take the atmospheric constituent away, and he is happy again (75) Das werdet Ihr Euch, aber nicht sofort nach der Landung (76) location R3 & R4, houses tadpcles and all they need (77) heavy German couple, without the rare gas, Z = 91 (78) A short ... time is desired, if a system goes down (79) Think of "home", also POD ASSIST (80) Integraler Bestandteil von Gin-Tonic

#### SENKRECHT

(1) Carries 7, but not always (2) In 1955 he had his greatest success in Vienna, Washington and Moscow, but now it is only used for switching SL computers (3) If it guits, L.Y. has to turn to v.B. for help; if he guits, 9 and 41 are out of business (4) This part of the mission is certain, sooner or later (5) Pampering station for 1, close to VAB (6) Has a certain relation to a town near Tübingen (8) Kleiner Raum für gerichtliche Auseinandersetzungen, u.a. wegen Booten und Wellen (9) Er wurde auch mit 62 kein bißchen weiser (10) Fehlt Trägen (11) Die Jugend sagt es für Roger, aber auch companies are allowed to show it on D1 h/w (13) There won't be many of these breaks between MET 0 to 24 (14) Austrian type of management, concerned with solar and other extraterrestrial activities (19) The GO for this valley in Germany (or Austria) reached Challenger a split second too late on 51F (24) Manager of "Son et Lumiere" at GSOC (26) Linear, even though it is investigated in a circular orbit (27) clock work on D1, Albert E. schau oba! (31) Indicates all sorts of directio (33) There are 4 of this kind in 7, otherwise it were inconvenient at the 76 (35) Discovered in 1844, oxide toxic, boiling point 3900° C (36) home of tulips, cows, PS3 and origin of L5M2 (37) Indicates a certain relation (40) What 46 did to Juliette, Latin version (41) Fliegt 3<sup>2</sup> ' 11 Luftballons (42) It's use on A/G 1 requires hi level approval (45) If we didn't have this "metal", we'd have some mass problems sometimes (47) Sometimes you have to cool it to

be able to heat its pod (49) Low concentration product of Utah, can't do without in electronics wherever (50) Wenn 1 dieses 7 flöge, könnte 68 größeres R haben, aber vielleicht wäre dann 6 dieses Arbeit (51) 48 of this p.s. is the max. dumping rate (53) One of Cogolis babies (54) Transatlantic connection, mostly for PAP & FAO (56) Nicht promoviertes Gegenteil des Buben (58) Deutsch-Europäischer Gemischtwarenladen für Festes und Flüssiges, meistens schwer, manchmal schwerelos (Abk.) (60) Their SAS was less than 2 Garns on SL3 (61) Latin rage, reduced to 66 %, sometimes gives you a warm feeling (63) If it comes flying towards you, you do it for cover (65) 48 could be a member of this (66) Alabamians way of saying 60 seconds (68) May be shaped and inclined in many different ways (71) short for 7 (73) Anrede für Eisspender von Enkeln (74) Ancient Greek fluteplayer

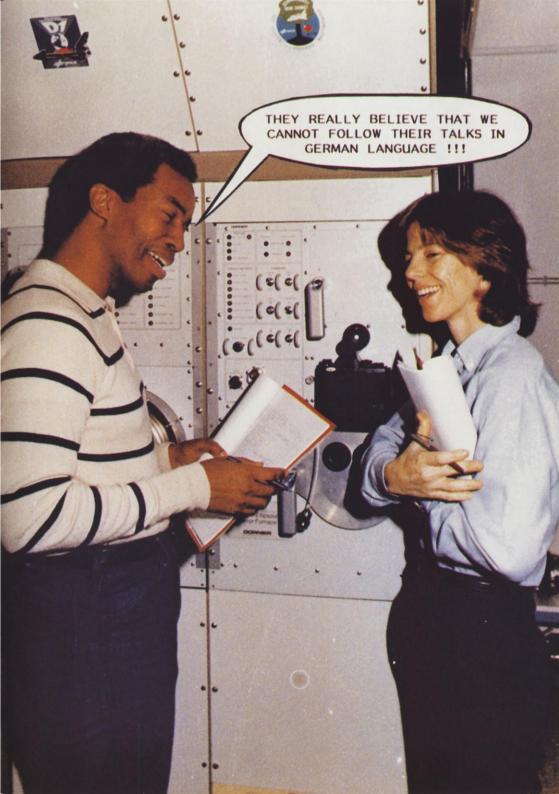


EVEN FOR THIS BUSINESS YOU HAVE TO FOLLOW A WRITTEN PROCEDURE!

1 100

EME

80

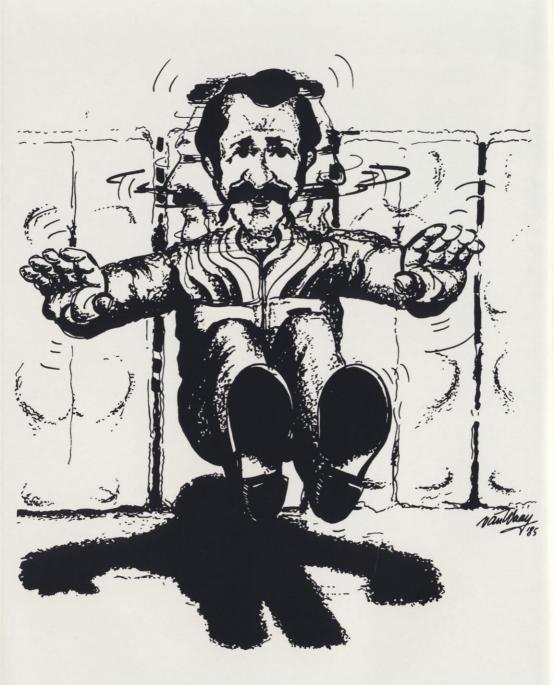


BEVOR ICH DAS EXPERIMENT NOCH EINMAL AUSFÜHRE, HÄNGE ICH MICH LIEBER AUF !

HOPE NO ONE WILL NOTICE I'VE GOT TERRIBLE TOOTH ACHE.

WHO GAVE ME States THE COOK BOOK INSTEAD OF THE PROCEDURES? FVLR -----Weallington -6.6.5 pppp 11141





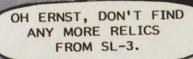
"AND WHERE IS MY SLEEPING PLACE"

A NEW RECORD!!! I NEEDED LESS THAN 16 MINUTES TO CLOSE THE ZIPPER.

ea

OH BOY! NOW HE NEEDED MORE THAN 15 MINUTES TO CLOSE HIS ZIPPER.





(2)

1

THAT WAS NOT MY QUESTION! PLEASE ANSWER MY QUESTION! I SIMPLY ASKED YOU: "SHALL I PULL OR NOT!" INCUBATOR B

ANNA -

COLOCO COLO



ICH HABE DIE NASE VOLL! FAHRT EUREN SCHLITTEN DOCH ALLEINE!!! KEEP QUIET! YOU HAVE TO BE A NICE LOOKING BOY FOR THE VIP CONFERENCE!

DEVLA

1



- 10. Launch Complex.
- Planet with unusual ring system; largest moon is Titan.
- Spacecraft that made closest approach to the sun; joint projects of the United States and West Germany.
- 14. \_\_\_ Canaveral.
- 15. 77.5 ton space station.
- 17. Dry lake bed in California.
- 20. Command Module.
- 22. Name of Orbiter 101.
- 24. Milky .
- 25. Reusable space vehicle; Space
- 27. Radio Astronomy Explorer.
- First commercial satellite launched by NASA for COMSAT Corporation; second word of name.
- 31. Name of Orbiter 102.
- 32. Airline company that started a waiting list of 90,000 reservations for the first commercial flight to the moon.
- 35. Public Affairs.
- 37. Garment worn by astronauts during EVA.
- 38. Country where Skylab fragments fell.
- 40. Space probe landing on Mars July 20, 1976.

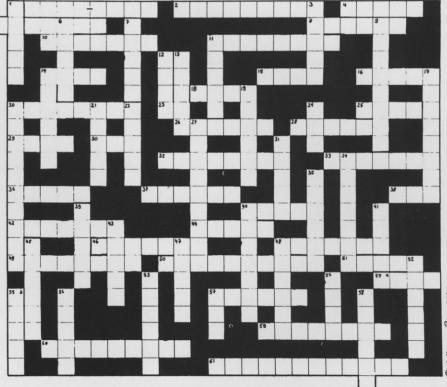
- This spacecraft took first photos of solar flare spouting from far side of sun.
- Largest in solar system; first planet observed by Pioneer 10.

## DOWN

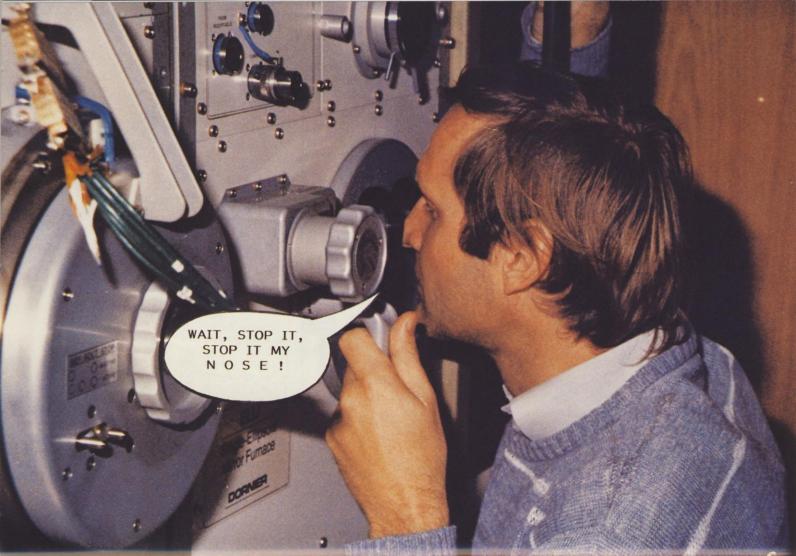
- This interplanetary probe became first spacecraft to reach Jupiter.
- This interplanetary probe scanned Jupiter and Saturn.
- 3. USSR spacecraft.
- 5. Visitor's Information Center.
- 7. Name of Orbiter 103.
- Canadian Domestic Communications Satellite (Eskimo for brother).
- 9. Name of Orbiter 099.
- Last name of May 29, 1979 selection for Director of Shuttle Operations at KSC.
- 16. Largest American flag ever painted and a 110-foot American revolution symbol were painted on the South Wall of VAB in observance of this.
- Satellite that made America's first mail delivery via satellite, sending "mailgram".
- The mighty tortoise; designed National Historic Mechanical Engineering Landmarks; largest land vehicles ever build.
- Second space shuttle orbiter to arrive at Kennedy Space Center atop 747 carrier.
- 21. Applications Technology Satellite.
- 23. Name of Orbiter 104.
- 26. Comet discovered on March 18, 1973.
- International Telecommunications Satellite Organization.
- Name of 1979 Hurricane that roared through KSC, but did little damage.
- 33. This country borrowed KSC's Saturn 1B rocket for 18 months as part of its Space Science Expositon.
- 34. European Space Agency.
- 35. A nonflammable platform; LC-39"A".
- 36 Name of prime recovery vessel for first US-EVA space flight.
- 39. Unidentified Flying Object.



ASTRONAUT NAME CROSSWORD PUZZLE



C Jahar Van Ravenswaay



HABT IHR AUCH EINE GEHALTSERHÖHUNG BEKOMMEN?

FURRER





KEINE PANIK. DAS HABEN WIR IN EINER MINUTE! WENN DAS SO WEITER GEHT, DARF ICH AN DER ELLI NUR NOCH IM FRACK ARBEITEN!









