

AIAA

Houston Section

25th Anniversary



1962 - 1987

American Institute of Aeronautics and Astronautics

The American Interplanetary Society, later called the American Rocket Society (ARS), was founded on April 4, 1930. The Institute of the Aeronautical Sciences (IAS), later called the Institute of the Aerospace Sciences, was founded on October 1, 1932.

The Houston Section of the IAS was formed on January 4, 1962, with Dr. Alan J. Chapman of Rice University as Chairman.

On February 1, 1963, the ARS and IAS merged to become the American Institute of Aeronautics and Astronautics, the largest and oldest American technical society devoted to science and engineering in the fields of astronautical and aeronautical technology and systems. It is composed of professionals who themselves provide the energy and ideas to make the society work. In AIAA, the emphasis is on the individual, whether he is preparing a Journal article, participating in a symposium or Section activity, or working on one of AIAA's many committees.

All can be proud of the contributions of the more than 1000 AIAA Houston Section members to our nation's space program.

OUTSTANDING SECTION AWARD SECTION SPECIAL EVENT AWARD



1975-1976
1976-1977
1979-1980
1980-1981
1981-1982
1983-1984



1971-1972
1972-1973
1979-1980
1981-1982
1983-1984
1985-1986

The Early Days

NASA - Langley

November 5, 1958

MEMORANDUM For All Concerned

Subject: Space Task Group

1. Effective this date, a Space Task Group reporting directly to NASA Headquarters is established at Langley Field, Virginia to implement a manned satellite project. Mr. Robert R. Gilruth has been appointed as Project Manager and Mr. Charles J. Donlan as Assistant Project Manager.

2. The following Langley Research Center employees are hereby relieved of their present duties and assigned to the Space Task Group:

Bland, William M., Jr.
Bond, Aleck C.
Chilton, Robert G.
Donlan, Charles J.
Faget, Maxime A.
Fields, Edison M.
Gilruth, Robert R.
Hammack, Jerome B.
Hatley, Shirley J.
Heberlig, Jack C.
Hicks, Claiborne R., Jr.
Kehlet, Alan B.
Kolenkiewicz, Ronald
Kraft, Christopher C., Jr.
Kyle, Howard C.
Lauten, William T., Jr.
Lee, John B.
Livesay, Norma L.

Lowe, Nancy C.
MacDougall, George F., Jr.
Magin, Betsy F.
Mathews, Charles W.
Mayer, John P.
Muhly, William C.
Purser, Paul E.
Patterson, Herbert G.
Ricker, Harry H., Jr.
Robert, Frank C.
Rollins, Joseph J.
Sartor, Ronelda F.
Stearn, Jacquelyn B.
Taylor, Paul D.
Watkins, Julia R.
Watkins, Shirley P.
Zimmerman, Charles H.



Floyd L. Thompson
Acting Director

The Section Leadership

Houston Section Chairmen

1962-63	Alan J. Chapman	Rice University
1963-64	W. Scott Royce	Northrop Corporation
1964-65	Charles B. Appleman	General Electric Company
1965-66	Phil Sansone	RCA
1966-67	George M. Low	NASA
1967-68	Aleck C. Bond	NASA
1968-69	Jack C. White	North American Aviation
1969-70	Joseph G. Thibodaux, Jr.	NASA
1970-71	John Stap, Jr.	Martin Marietta Corporation
1971-72	James C. McLane, Jr.	NASA
1972-73	Ernest L. Kistler	Texas A&M University
1973-74	Joseph S. Algranti	NASA
1974-75	Leland A. Carlson	Texas A&M University
1975-76	Loren E. Wood	TRW
1976-77	Claiborne R. Hicks	NASA
1977-78	Thomas B. Murtagh	NASA
1978-79	Edward L. Hays	NASA
1979-80	Robert R. Stephens	McDonnell Douglas Corporation
1980-81	Norman H. Chaffee	NASA
1981-82	Jack C. Heberlig	IBM
1982-83	Sharon Barnes Castle	NASA
1983-84	Charles V. Wolfers	McDonnell Douglas Corporation
1984-85	Robert V. Glowczwski	Martin Marietta Corporation
1985-86	Robert E. Lewis	NASA
1986-87	Karen D. Godek	NASA

The Measure of Progress

Program	Man-hours in space	Number of manned flights	Crew- members
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Project Mercury

54

6

1



Gemini Program

1 940

10

2

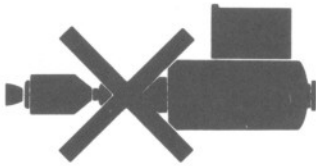


Apollo Program

7 506

11

3



Skylab

12 352

3

3

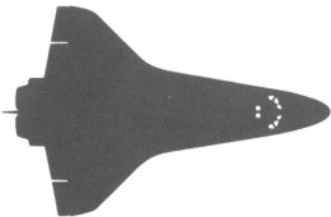


Apollo-Soyuz
Test Project

652

1

3



Space
Transportation
System

18 632

25

Varies 2 - 8

Cumulative
man-hours
in space

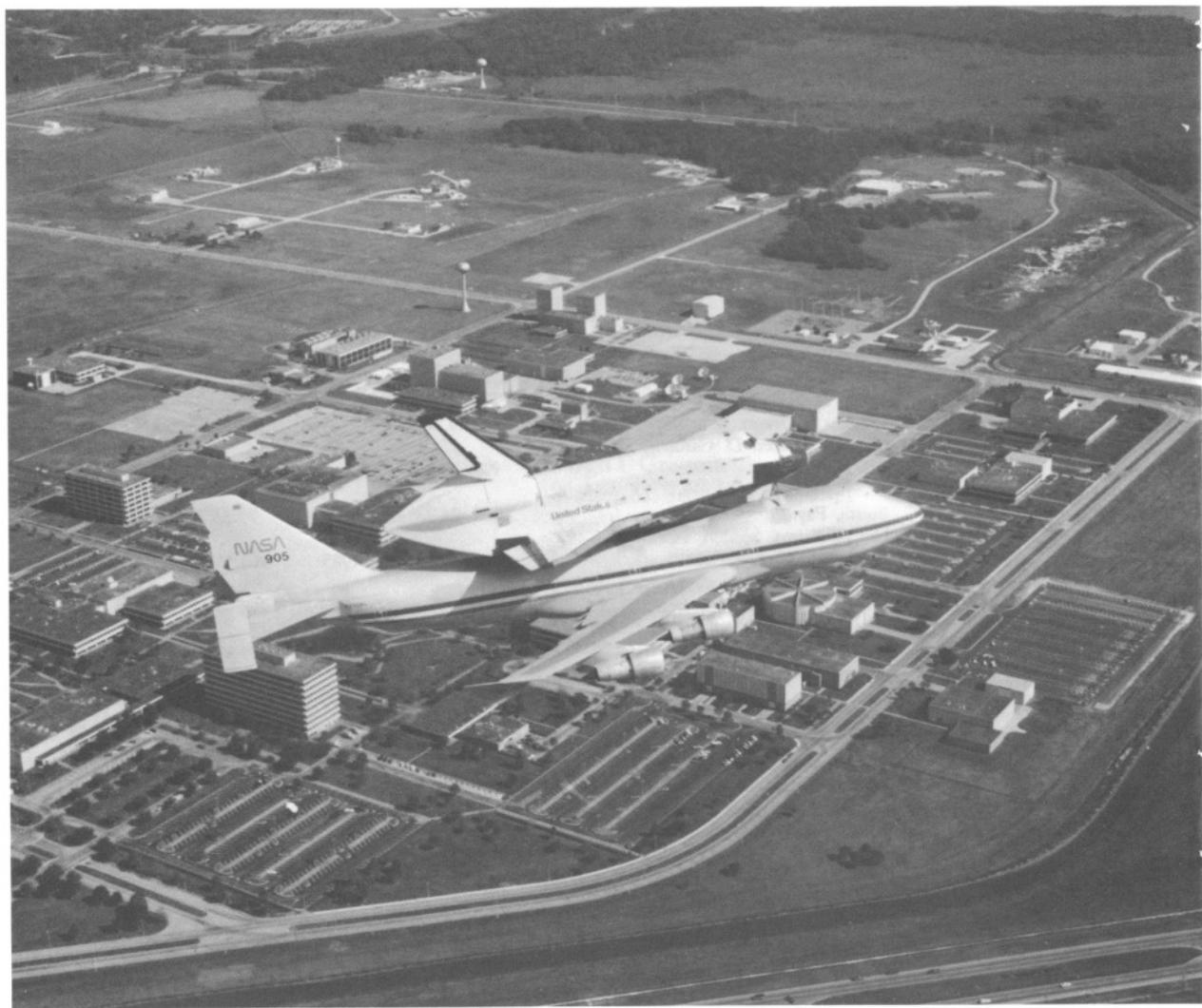
41 136 hours 37 minutes 49 seconds

U.S. Manned Space-Flight Log

Mission	Crew	Date	Mission elapsed time, hr:min:sec	Cumulative U.S. manned hrs in space hr:min:sec
Mercury-Redstone 3	Shepard	May 5, 1961	00:15:22	00:15:22
Mercury-Redstone 4	Grissom	July 21, 1961	00:15:37	00:30:59
Mercury-Atlas 6	Glenn	Feb. 20, 1962	04:55:23	05:26:22
Mercury-Atlas 7	Carpenter	May 24, 1962	04:56:05	10:22:27
Mercury-Atlas 8	Schirra	Oct. 3, 1962	09:13:11	19:35:38
Mercury-Atlas 9	Cooper	May 15 and 16, 1963	34:19:49	53:55:27
Total - Project Mercury — 53:55:27				
Gemini-Titan III	Grissom, Young	Mar. 23, 1965	04:53:00	63:41:27
Gemini-Titan IV	McDivitt, White	June 3 to 7, 1965	97:56:11	259:33:49
Gemini-Titan V	Cooper, Conrad	Aug. 21 to 29, 1965	190:55:14	641:24:17
Gemini-Titan VII	Borman, Lovell	Dec. 4 to 18, 1965	330:35:31	1302:35:19
Gemini-Titan VI-A	Schirra, Stafford	Dec. 15 and 16, 1965	25:51:24	1354:18:07
Gemini-Titan VIII	Armstrong, Scott	Mar. 16, 1966	10:41:26	1375:40:59
Gemini-Titan IX-A	Stafford, Cernan	June 3 to 6, 1966	72:21:00	1520:22:59
Gemini-Titan X	Young, Collins	July 18 to 21, 1966	70:46:39	1661:56:17
Gemini-Titan XI	Conrad, Gordon	Sept. 12 to 15, 1966	71:17:08	1804:30:33
Gemini-Titan XII	Lovell, Aldrin	Nov. 11 to 15, 1966	94:34:31	1993:39:35
Total - Gemini Program — 1939:44:08				
Apollo-Saturn 7	Schirra, Eisele, Cunningham	Oct. 11 to 22, 1968	260:09:03	2774:06:44
Apollo-Saturn 8	Borman, Lovell, Anders	Dec. 21 to 27, 1968	147:00:42	3215:08:50
Apollo-Saturn 9	McDivitt, Scott, Schweickart	Mar. 3 to 13, 1969	241:00:54	3938:11:32
Apollo-Saturn 10	Stafford, Young, Cernan	May 18 to 26, 1969	192:03:23	4514:21:41
Apollo-Saturn 11	Armstrong, Collins, Aldrin	July 16 to 24, 1969	195:18:35	5100:17:26
Apollo-Saturn 12	Conrad, Gordon, Bean	Nov. 14 to 24, 1969	244:36:25	5834:06:41
Apollo-Saturn 13	Lovell, Swigert, Haise	April 11 to 17, 1970	142:54:41	6262:50:44
Apollo-Saturn 14	Shepard, Roosa, Mitchell	Jan. 31 to Feb. 9, 1971	216:01:57	6910:56:35
Apollo-Saturn 15	Scott, Worden, Irwin	July 26 to Aug. 7, 1971	295:11:53	7796:32:14
Apollo-Saturn 16	Young, Mattingly, Duke	April 16 to 27, 1972	265:51:05	8594:05:29
Apollo-Saturn 17	Cernan, Evans, Schmitt	Dec. 7 to 19, 1972	301:51:59	9499:41:26
Total - Apollo Program — 7506:01:31				
Skylab SL-2	Conrad, Kerwin, Weitz	May 25 to June 22, 1973	672:49:49	11518:10:53
Skylab SL-3	Bean, Garriott, Lousma	July 28 to Sept. 25, 1973	1427:09:04	15799:38:05
Skylab SL-4	Carr, Gibson, Pogue	Nov. 16, 1973 to Feb. 8, 1974	2017:15:32	21851:24:41
Total - Skylab Program — 12351:43:15				
Apollo-Soyuz Test Program (ASTP)	Stafford, Brand, Slayton	July 15 to 24, 1975	217:28:23	22503:49:50
Total ASTP — 652:25:09				

Mission	Crew	Date	Mission elapsed time, hr:min:sec	Cumulative U.S. manned hrs in space hr:min:sec
Space Transportation System				
STS-1 (OFT)	Young, Crippen	April 12 to 14, 1981	54:20:53	22612:31:36
STS-2 (OFT)	Engle, Truly	Nov. 12 to 14, 1981	54:13:12	22720:58:00
STS-3 (OFT)	Lousma, Fullerton	March 22 to 30, 1982	192:04:49	23105:03:38
STS-4 (OFT)	Mattingly, Hartsfield	June 27 to July 4, 1982	169:11:11	23443:22:40
STS-5	Brand, Overmyer, Allen, Lenoir	Nov. 11 to 16, 1982	122:14:25	23932:19:40
STS-6	Weitz, Bobko, Peterson, Musgrave	April 4 to 9, 1983	120:23:42	24413:54:28
STS-7	Crippen, Hauck, Ride, Fabian, Thagard	June 18 to 24, 1983	146:23:59	25145:54:23
STS-8	Truly, Brandenstein, D. Gardner, Bluford, W. Thornton	Aug. 30 to Sept. 5, 1983	145:08:40	25871:37:43
STS-9	Young, Shaw, Garriott, Parker, Lichtenberg, Merbold	Nov. 28 to Dec. 8, 1983	247:47:24	27110:34:43
41-B	Brand, Gibson, McCandless, McNair, Stewart	Feb. 3 to 11, 1984	191:15:55	28066:54:18
41-C	Crippen, Scobee, van Hoften, G. Nelson, Hart	April 6 to 13, 1984	191:40:05	29025:14:43
41-D	Hartsfield, Coats, Resnik, Hawley, Mullane, C. Walker	Aug. 30 to Sept. 5, 1984	144:57:00	29894:56:43
41-G	Crippen, McBride, Ride, Sullivan, Leestma, Garneau, Scully-Power	Oct. 5 to Oct. 13, 1984	197:23:37	31079:18:25
51-A	Hauck, D. Walker, D. Gardner, A. Fisher, Allen	Nov. 8 to Nov. 16, 1984	191:44:56	32038:03:05
51-C	Mattingly, Shriver, Onizuka, Buchli, Payton	Jan. 24 to 27, 1985	73:33:27	32405:50:20
51-D	Bobko, Williams, Seddon, Hoffman, Griggs, C. Walker, Garn	April 12 to 19, 1985	167:55:23	33581:18:01
51-B	Overmyer, Gregory, Lind, Thagard, W. Thornton, van den Berg, Wang	April 29 to May 6, 1985	168:08:47	34758:19:30
51-G	Brandenstein, Creighton, Lucid, Fabian, Nagel, Baudry, Al-Saud	June 17 to 24, 1985	169:39:00	35606:34:30
51-F	Fullerton, Bridges, Musgrave, England, Henize, Acton, Bartoe	July 29 to Aug. 6, 1985	190:45:26	36941:52:32
51-I	Engle, Covey, van Hoften, Lounge, W. Fisher	Aug. 27 to Sept. 3, 1985	170:17:42	37793:21:02
51-J	Bobko, Grabe, Hilmers, Stewart, Pailles	Oct. 3 to 7, 1985	97:46:38	38282:14:12
61-A	Hartsfield, Nagel, Buchli, Bluford, Dunbar, Furrer, Messerschmid, Ockels	Oct. 30 to Nov. 6, 1985	168:15:51	39123:33:27
61-B	Shaw, O'Connor, Cleave, Spring, Ross, Neri-Vela, C. Walker	Nov. 26 to Dec. 3, 1985	165:04:49	40114:02:21
61-C	Gibson, Bolden, Chang-Diaz, Hawley, G. Nelson, Cenker, B. Nelson	Jan. 12 to 18, 1986	146:03:51	41136:29:18
51-L	Scobee, Smith, Resnik, Onizuka, McNair, Jarvis, McAuliffe	Jan. 28, 1986	00:01:13	41136:37:49
Total-STS Program — 18632:47:59				

The Johnson Space Center Today

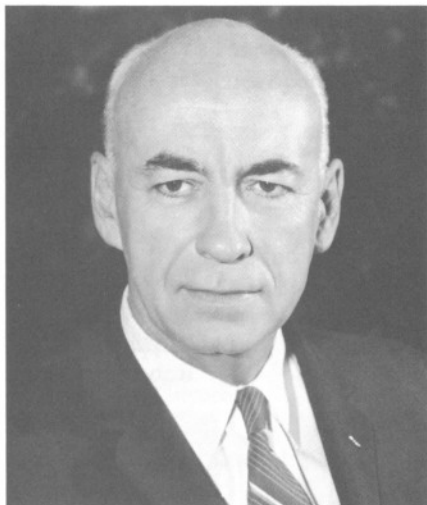


To Honor One and All

One of the primary responsibilities of a professional society is to regularly survey its technological realm, identify those practitioners in its arts and sciences who have made notable and significant contributions, and honor in public ceremony those so identified with symbols of acclaim and esteem.

Honorary Fellows

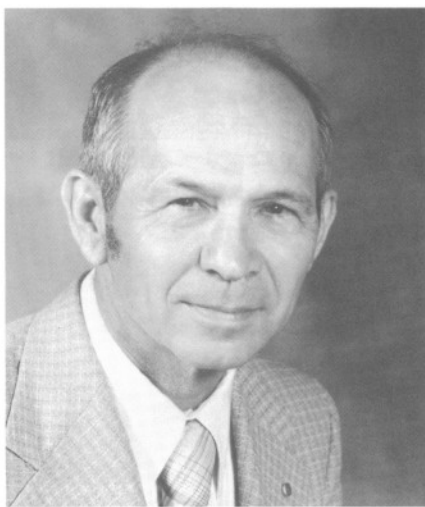
Honorary Fellows are persons of eminence in aeronautics and astronautics, recognized by a long and highly contributive career in the arts, sciences or technology thereof.



Robert R. Gilruth



Christopher C. Kraft, Jr.



Maxime A. Faget

Fellows

Fellows are persons of distinction in aeronautics or astronautics who have made notable and valuable contributions to the arts, sciences or technology thereof.



Vance D. Brand



Aaron Cohen



Robert L. Crippen



Gerald D. Griffin



Glynn S. Lunney



Angelo Miele



Sigurd A. Sjoberg



Donald K. Slayton



Robert F. Thompson



John W. Young

Houston Section

Individual Awards

Goddard Astronautics Award

For notable achievement in the field of astronautics, honoring Robert H. Goddard, rocket visionary, pioneer, bold experimentalist, and superb engineer whose early liquid rocket engine launches opened up the world of astronautics

1962 — Robert R. Gilruth

1979 — Maxime A. Faget

Louis W. Hill Space Transportation Award

For significant contributions indicative of American enterprise and ingenuity in the art and science of Space flight, named in the memory of the transportation pioneer Louis W. Hill.

1961 — Robert R. Gilruth

1969 — George M. Low

1970 — Christopher C. Kraft, Jr.

1975 — Glynn S. Lunney

Reed Aeronautics Award

To honor notable achievement in the field of aeronautical science and engineering, in memory of Dr. Sylvanus Albert Reed, aeronautical engineer, designer, and founder member of the former Institute of the Aeronautical Sciences.

1950 — Robert R. Gilruth

1962 — Walter C. Williams

De Florez Training Award

Named in honor of the Late Admiral Luis de Florez and presented for an outstanding improvement in aerospace training in either aeronautics or astronautics

1966 — Warren J. North

1970 — Harold G. Miller

1973 — Carroll H. Woodling

1980 — Carl B. Shelley

Distinguished Service Award

Gives recognition to an individual member of AIAA who has made great contributions over a period of years through service to the Institute.

1974 — Charles B. Appleman

1981 — William H. Simmons

1983 — Norman H. Chaffee

Von Karman Lectureship in Astronautics

Presented to honor an individual who has performed notably and distinguished himself technically in the field of astronautics, given in honor of Theodore von Karman, world renowned and beloved fundamentalist in the aerospace sciences.

1979 — Christopher C. Kraft, Jr.

1984 — Aaron Cohen

Robert F. Thompson

Lawrence Sperry Award

For notable contribution made by a young person to the advancement of aeronautics or astronautics, given in honor of Lawrence B. Sperry, pioneer aviator and inventor

1962 — Robert O. Piland

1966 — Joe H. Engle

1967 — Eugene F. Kranz

1969 — Edgar C. Lineberry, Jr.

1970 — Glynn S. Lunney

1971 — Ronald L. Berry

1984 — Sally K. Ride

Space Systems Awards

To recognize outstanding achievement in the field of systems analysis, design, and implementation as applied to spacecraft and launch vehicle technology

1970 — Maxime A. Faget

1975 — Caldwell C. Johnson, Jr.

1984 — Richard H. Kohrs

1986 — Robert F. Thompson

Wyld Propulsion Award

For outstanding achievement in the development or application of rocket propulsion systems, honoring the developer of the regeneratively cooled rocket engine, James H. Wyld

1970 — Joseph G. Thibodaux, Jr.

Mechanics and Control of Flight Award

For outstanding recent technical or scientific contribution by an individual to the mechanics, guidance, or control of flight in space or the atmosphere

1969 — John P. Mayer

1971 — Kenneth J. Cox

1982 — Angelo Miele

Jeffries Medical Research Award

For outstanding contribution to the advancement of aerospace medical research, in honor of the memory of the American physician who made the earliest recorded scientific observations from the air

1966 — Charles A. Berry

1971 — Richard S. Johnston

1975 — Lawrence F. Dietlein

1980 — Stephen L. Kimzey

1981 — Sam L. Pool

1985 — William Edgar Thornton

Pendray Aerospace Literature Award

Presented for an outstanding contribution or contributions to aeronautical and astronautical literature in the relatively recent past

1982 — Angelo Miele

Aerospace Contribution to Society Award

To recognize a notable contribution to society through the application of aerospace technology to societal needs

1979 — Richard S. Johnston

Chanute Flight Award

For outstanding contribution made by a pilot or test personnel to the advancement of the art, science, and technology of aeronautics, in honor of the memory of Octave Chanute, pioneer U.S. aeronautical investigator

- 1962 — Neil A. Armstrong 1976 — Thomas P. Stafford
1966 — John L. Swigert, Jr.
1975 — Alan L. Bean
Owen K. Garriott
Jack R. Lousma

Robert J. Collier Trophy Award

For the greatest achievement in aeronautics or astronautics in America with respect to improving the performance, efficiency, or safety of air or space vehicles, the value of which has been thoroughly demonstrated by actual use during the preceding year; established in 1912 by Robert J. Collier, publisher and pioneer aviation enthusiast

- | | |
|---------------------------|----------------------------|
| 1962 — M. Scott Carpenter | 1971 — David R. Scott |
| L. Gordon Cooper, Jr. | James B. Irwin |
| John H. Glenn, Jr. | Alfred M. Worden |
| Virgil I. Grissom | Robert R. Gilruth |
| Walter M. Schirra, Jr. | 1973 — Charles Conrad, Jr. |
| Alan B. Shepard, Jr. | Joseph P. Kerwin |
| Donald K. Slayton | Paul J. Weitz |
| 1968 — Frank Borman | Alan L. Bean |
| James A. Lovell, Jr. | Owen K. Garriott |
| William A. Anders | Jack R. Lousma |
| 1969 — Neil A. Armstrong | Gerald P. Carr |
| Edwin E. Aldrin, Jr. | Edward G. Gibson |
| Michael Collins | William R. Poage |

Information Systems Award

Presented for technical and/or management contribution in space and aeronautics computer and sensing aspects of information technology and science

- 1983 — Lynwood C. Dunseith

Support Systems Award

Presented for significant contribution to the overall effectiveness of aerospace systems through the development of improved support systems technology

1981 — John W. Kiker

Space Science Award

Given to an investigator who has distinguished himself through his achievement in studies of the physics of atmospheres of celestial bodies or of the matter, fields, and dynamic and energy transfer processes occurring in space or experienced by space vehicles

1973 — Paul W. Gast

Aerospace Maintenance Award

Presented to an individual who has made a major contribution to aerospace maintenance, specifically in aviation, missiles and space, resulting in a significant improvement in operational and cost effectiveness

1987 — James D. A. van Hoften

Digital Avionics Award

This award established in 1984 is presented to recognize outstanding achievement in technical management and/or implementation of digital avionics in space or aeronautical systems to include system analysis, design, development or application

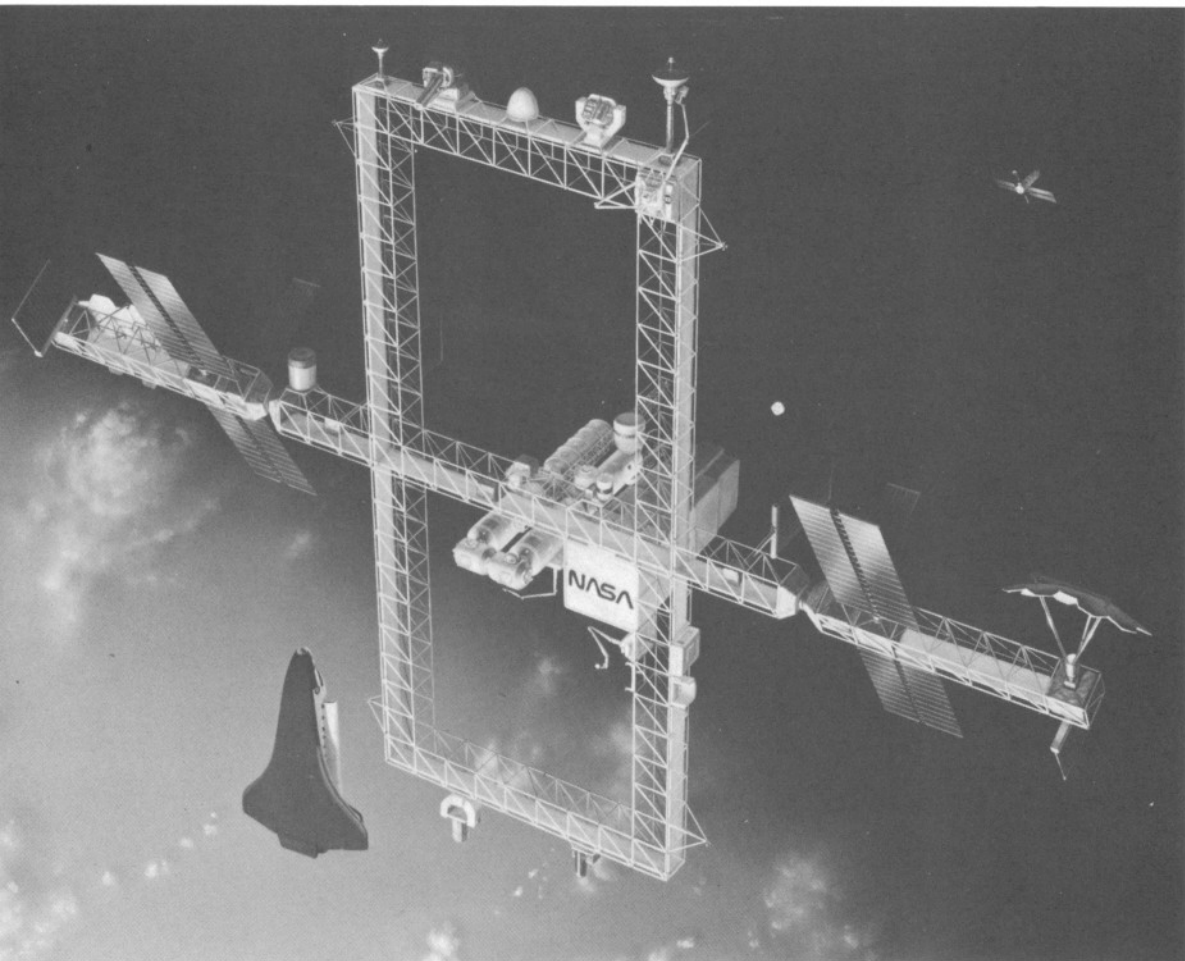
1986 — Kenneth J. Cox

Haley Space Flight Award

For outstanding contribution by an astronaut or flight test personnel to the advancement of the art, science, or technology of astronautics, in honor of Andrew G. Haley, one of the founders of the American Rocket Society

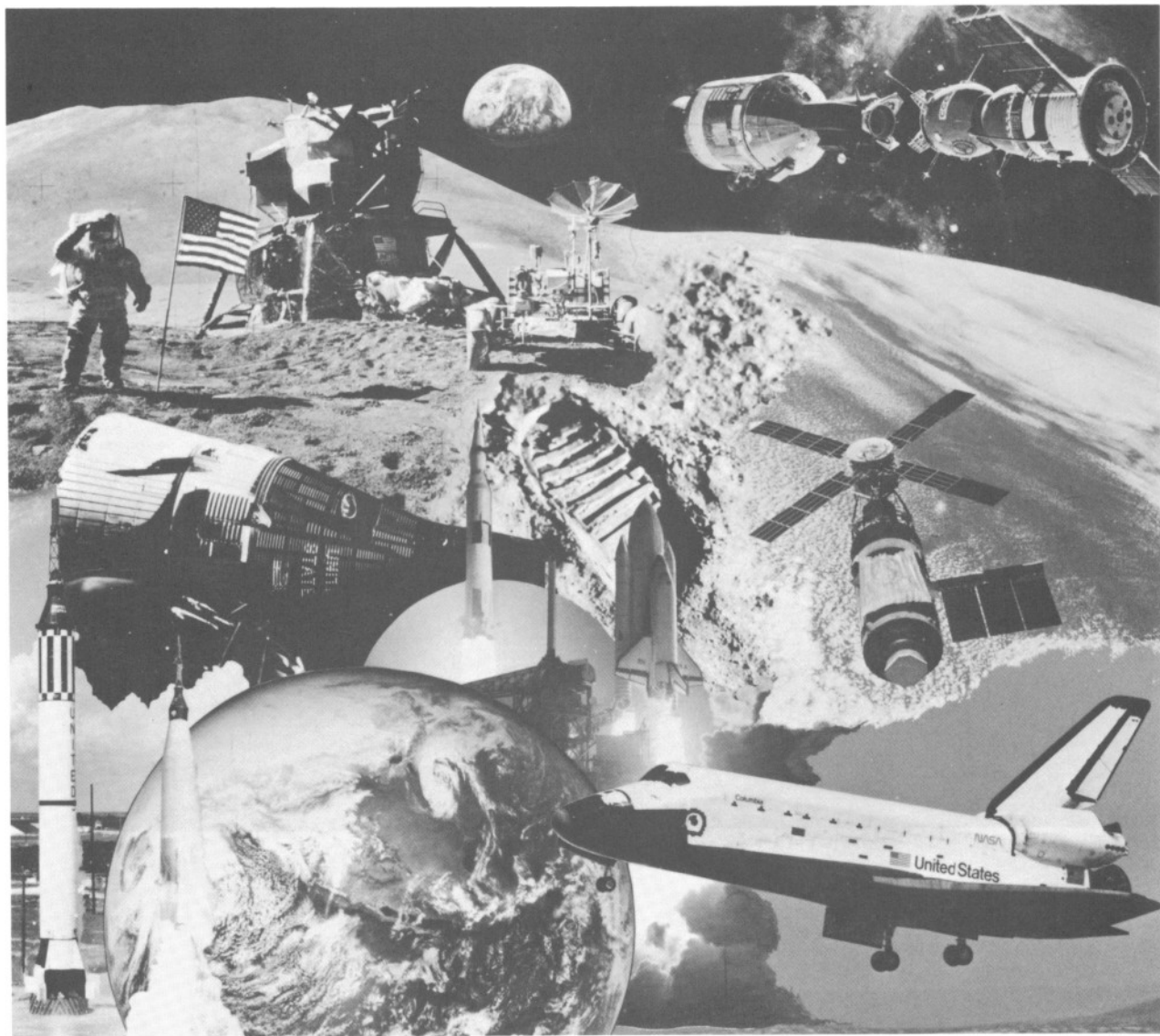
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|-------------------------------|----------------------------|
| 1961 — Alan B. Shepard, Jr. | 1980 — C. Gordon Fullerton |
| 1962 — John H. Glenn, Jr. | Joe H. Engle |
| 1963 — Walter M. Schirra, Jr. | Richard H. Truly |
| L. Gordon Cooper, Jr. | Fred W. Haise, Jr. |
| 1964 — Walter C. Williams | 1982 — John W. Young |
| 1966 — Neil A. Armstrong | Robert L. Crippen |
| David R. Scott | 1984 — John W. Young |
| 1967 — Edward H. White II | Brewster H. Shaw |
| 1968 — Virgil I. Grissom | Owen K. Garriott |
| 1969 — Donn F. Eisele | Robert A. R. Parker |
| Walter Cunningham | Ulf Merbold |
| Walter M. Schirra, Jr. | Byron K. Lichtenberg |
| 1970 — Frank Borman | |
| James A. Lovell, Jr. | |
| William A. Anders | |
| 1971 — John L. Swigert, Jr. | |
| Fred W. Haise, Jr. | |
| James A. Lovell, Jr. | |
| 1972 — Alfred M. Worden | |
| David R. Scott | |
| James B. Irwin | |
| 1973 — John W. Young | |
| Thomas K. Mattingly II | |
| Charles M. Duke, Jr. | |
| 1974 — Paul J. Weitz | |
| Charles Conrad, Jr. | |
| Joseph P. Kerwin | |
| 1975 — Gerald P. Carr | |
| William R. Pogue | |
| Edward G. Gibson | |
| 1978 — Vance D. Brand | |
| Donald K. Slayton | |
| Thomas P. Stafford | |

The Future is Now



Houston Section

25th Anniversary 1962-1987



An event recognizing the 25th Anniversary
of the Aerospace Pioneers
of the Johnson Space Center and
the Houston Section — AIAA

