



# Safety And Mission Assurance Directorate



QD02



Gerald F. Flanagan  
Manager



N. Jan Davis  
Director



Roy Malone  
Deputy Director



Terry J. Hamm  
Technical Assistant



David J. Spacek  
Technical Assistant

QD01

QD03



Scott E. Jackson  
Manager

QD10



Thomas A. Hartline  
Manager

QD20



Alex C. Adams  
Manager

QD30



Christopher K. Cowart  
Manager

QD40



Angela D. Walker  
Manager

QD50



Rondal C. Mize  
Manager



Alan L. Clark  
Technical Assistant



Dan J. Mullane  
Technical Assistant



Linder L. Metts  
Technical Assistant



Fayssal M. Safie  
Technical Assistant

# Angela D. Walker

Manager, Safety, Reliability and Quality Assurance Policy and Assessment Department



## Experience

- 1999** – Team Lead Solid Rocket Booster (SRB) Assurance Team, Mission Assurance Department, Safety and Mission Assurance, Marshall Space Flight Center (MSFC).
- 1996** – Senior S&MA Representative, NASA Resident Office, Pratt & Whitney, West Palm Beach, FL.
- 1994** – S&MA Project Lead, SSME/ATD.
- 1992** – MSFC Safety, Reliability, and Quality Assurance (SR&QA) Representative, NASA Resident Office for Space Station Freedom, Boeing, Huntsville, AL.
- 1988** – Quality Engineer, Solid Rocket Booster Project, SR&QA, MSFC, AL.
- 1987** – Quality Engineer, MSFC, AL
- 1986** – Electrical Engineer, Film Division, Polaroid Corporation, Waltham, MA.

## Education

- 2002** – Federal Executive Institute, Leadership for a Democratic Society
- 1986** – B.S. in Electrical Engineering, Tuskegee University.
- 1982** – Central High School, Phenix City, AL.

## Special Honors And Awards

- Outstanding Young Women of America, 1987 and 1996.
- Space Flight Awareness Honoree, SSP 40th Anniversary 2001.
- Silver Snoopy Award, 1995.
- Special Services Awards, 2/89, 5/89, 8/92, 8/94, 7/96, 8/98, 8/01.
- Group Achievement Awards, 12/88, 6/91, 3/93, 5/90, 11/95, 6/98, 4/2004.
- Birmingham Area Distinguished Woman 2004

## Additional Information

- Husband: Sam J. Walker
- Daughter: Kristen – 14 years old
- Ordained Elder in the African Methodist Episcopal Church



# Alan L. Clark

Technical Assistant, Mission Assurance Department



## Experience

**2001** - Technical Assistant, S&MA Mission Assurance Department, MSFC

**2000** - S&MA Team Lead for Flight Projects Directorate, MSFC

**1999** - S&MA Team Lead for Chandra X-ray Observatory and Propulsion Module, MSFC

**1994** - Reliability Lead for AXAF, AXAF-S, Hubble Space Telescope, Spacelab, Tethered Satellite System (TSS), Aeroassist Flight Experiment (AFE), Space Station ECLSS, SSME, and STS CIL Prioritization, MSFC

**1986** - Reliability Lead in Hellfire Missile and Ground Laser Designators Project Office, U.S. Army Missile Command (USAMICOM), Redstone Arsenal, AL

**1982** - Reliability Lead for Copperhead Missile, Targets Program, 2.75 inch Rocket Program, and Viper Rocket Program, USAMICOM

**1982** - Reliability engineer for Patriot, Chapparral, and Pershing Missile Programs, USAMICOM

## Education

**1975** -Quality and Reliability Engineering Intern school, U.S. Army Management Training Agency (USAMETA), Rock Island Arsenal, IL

**1974** -B.S. Aerospace Engineering, Iowa State University, Ames, IA

**1970** -Milford High School, Milford, IA

**1997** -Managing the Influence Program (MIP), Wallops Island

## Special Honors and Awards

Group Achievement Awards: Chandra S&MA Team and Science Instrument Team and Safety Excellence Award – 1999

Exceptional Achievement Medal - 1997

Space Flight Awareness (SFA) Launch Honoree – STS-79 – 1996

Hubble Space Telescope Servicing Mission Medallion - 1994

Performance Awards – Yearly, 1988 through present

## Additional Information

Member of S&MA Mission Services Contract SEC - 2000

Chaired S&MA Mission Services RFP development team – 1999

Technical Chairman for S&MA PAC/SIAC SEC – 1992

Member of AXAF Science Instrument SEC – 1988

Deputy S&MA Chairman for AXAF SEB – 1988

Author of MSFC Payload and Experiment FMEA/CIL Groundrules - 1988

Author of MSFC Spacelab FMEA/CIL Groundrules - 1987

Hobbies include; Building and flying man-carrying and remote-controlled aircraft, fishing, target shooting, and music.

Married 23 years to wife Kimberly, and have two sons: Chris, 21 and Todd, 18 and a Boston Terrier: Jack, 8



# Christopher K. Cowart

Manager, Cargo Assurance Department



## Experience

- 2001** -Group Lead, Space Cargo Assurance Group, Safety and Mission Assurance Office, MSFC
- 1999** -Team Lead, Science Directorate Assurance Team, Safety and Mission Assurance Office, MSFC
- 1999** -Team Lead, Transportation Assurance Department, Safety and Mission Assurance Office, MSFC
- 1991** -System Safety Engineer, System Safety Engineering Division, Safety and Mission Assurance Office, MSFC
- 1987** -System Safety Engineer, Teledyne Brown Engineering
- 1984** -System Safety Engineer, General Dynamics

## Education

- 1984 -B.S. in Electrical Engineering, University of Alabama - Birmingham
- 1978 -Virgil I. Grissom High School

## Special Honors and Awards

- NASA Silver Snoopy
- Competent Toastmaster Certificate
- United States Coast Guard Flotilla Achievement Award
- United States Coast Guard Auxiliary Operational Service Award
- Performance Awards – 1991 through present

## Additional Information

- Member of the Tennessee Valley Chapter of the System Safety Society
- Completed ISO 9000 Internal Auditor Training
- Completed United States Coast Guard Auxiliary Elected Officers Course
- Married to former D. Maria Wright since 1982 with 3 children:  
Jeffrey (Age 17), Ryan (Age 15), and Amy (Age 13)



# Roy W. Malone, Jr.

Deputy Director, Safety and Mission Assurance Directorate



## Marshall Space Flight Center, ORGANIZATIONAL ASSIGNMENT:

Mr. Malone serves as the Deputy Director of the Safety and Mission Assurance Directorate at NASA's Marshall Space Flight Center in Huntsville, Ala. In this position, he assists the Director of Safety and Mission Assurance in planning and directing safety, reliability, and quality assurance operations for the Marshall Center.

### Experience

**2003** – 2004 Technical Assistant to the Director, NASA Engineering and Safety Center

**2002** – 2003 Deputy Director, Safety and Mission Assurance Office

**2002** – Retired from U.S. Naval Reserve as Commander

**1998** – 2002 Manager, Marshall Center Logistics Services Department, Center Operations Directorate

**1997** – Manager, Marshall Center ISO 9000 Audit Manager

**1994** – Technical Advisor in Safety and Mission Assurance Shuttle Integration Office

**1991** – Senior Quality Engineer with PRC, Inc., support Marshall's Safety and Mission Assurance

**1980** – 1991 U.S. Navy, including a tour as Combat Systems Officer on the USS CARON (DD-970) during Operation Desert Storm, two years at the Pentagon in Washington on the Joint Chiefs of Staff in the Office of the Chief of Naval Operations.

### Education

1980 – Bachelor of Science in electrical engineering, Georgia Institute of Technology, Atlanta, Ga.

2001 – Program for Management Development, Harvard Business School

### Special Honors and Awards

NASA Certificate of Appreciation (1999)

Numerous MSFC Group Achievement Awards (1999-2000)

Numerous Special Service Awards (1995-2003)

Numerous Sustained Superior Performance Awards (1998-2002)

Space Flight Awareness Leadership Recognition Award (2001)

Space Flight Awareness Launch Honoree Award (1993)

Navy Commendation Medal (5 awards, one with Combat Distinguishing Device) – 1983 - 99

Joint Service Commendation Medal - 2002

Joint Service Achievement Medal - 1987

Navy Achievement Medal - 1996



# Roy W. Malone, Jr. (continued)

Deputy Director, Safety and Mission Assurance Directorate



## Technical Papers

NASA Academy of Program and Project Leadership (APPL), Academy Sharing Knowledge (ASK) Magazine Article – “Standing Offer”

NASA Academy of Program and Project Leadership (APPL), Academy Sharing Knowledge (ASK) Magazine Article – “Reforming a Mindset”

NASA Academy of Program and Project Leadership (APPL), Academy Sharing Knowledge (ASK) Magazine Article – “Thank you Judy”

## Additional Information

Mr. Malone is married to June E. Malone, a Public Affairs Specialist at the Marshall Space Flight Center. They have one son, Roy W. Malone III, and one daughter, Madison E. Malone.



# Daniel J. Mullane

Technical Assistant, Shuttle Assurance Department



## Experience

**2001** – Technical Assistant, Shuttle Assurance Department

**1999** – Team Lead, Reusable Solid Rocket Motor (RSRM) Assurance Team

**1997** – Team Lead, Science Directorate Assurance Team

**1994** – Day-to day Team Lead, Reusable Solid Rocket Motor (RSRM) Assurance Team

**1992** – System Safety Engineer, System Safety & Reliability Engineering Office

**1991** - Joined MSFC Safety & Mission Assurance Office

**1988** – System Safety Engineer, MSFC S&MA Mission Services Contract, Ebasco Services Inc.

**1985** – Nuclear Operations & Safety, Advanced Technologies Division, Ebasco Services Inc.

**1984** – Mechanical Engineer, Plant Design Branch, Army Research & Design Center

## Education

1984 - B.S. in Mechanical Engineering, Manhattan College

## Special Honors and Awards

Space Flight Awareness Award, 2003

NASA Exceptional Achievement Medal, 1995

NASA Special Service Award, 2000

MSFC Outstanding Performance Award, 1992, 1993, 1994, 1995, 1996

NASA Certificate of Appreciation, 1993, 1995, 1996, 1997

## Additional Information

Married to Lisa Mullane; two sons and one daughter



# Alex C. Adams

Manager, Space Shuttle Assurance Department



## Experience

**1999** -Space Shuttle Integration, Team Lead

**1998** -NASA Headquarters—Office of Space Flight one-year assignment, Washington, DC

**1997** -Michoud Assembly Facility Resident Management Office, New Orleans, LA

**1992** -External Tank Assurance, Team Lead

**1988** -Safety, Reliability and Quality Assurance

## Education

**1998** -M.S., Systems Management, Florida Institute of Technology

**1991** -B.S., Electrical Engineering, University of Alabama in Huntsville

## Special Honors and Awards

Silver Snoopy Award: 2001

NASA Outstanding Support: 1999

NASA Group Achievement Award: 1988

MSFC Group Achievement Award: 2000, 1998, 1996, 1995, 1991, 1990, and 1989

MSFC Special Service Award: 1995

Dr. Wernher Von Braun Scholarship Recipient 1989-90

MSFC Co-op Of The Year 1988-89

## Additional Information

Married with one child—daughter



# Gerald F. Flanagan

Manager, Systems Management Office (SMO)



## Experience

### **Johnson Space Center**

**1964** – Field Test Project Engineer, Instrumentation & Electronic Systems Division

**1967** – Systems Manager, Earth Resources Aircraft Program

**1972** – Senior Project Engineer, Earth Resources Aircraft Program

**1974** – Subsystem Manager, Shuttle Command and Data Management

### **Stennis Space Center**

**1976** – Manager, Data Acquisition, Earth Resources Program

Detail – US Department of State/International Narcotics – Mexico City, Mexico

Detail – US Justice Department/Drug Enforcement Agency – Culiacan, Mexico

Detail – US Department of State/International Narcotics – Bogota, Colombia

**1981** – Chief, Systems Development Branch

### **Marshall Space Flight Center**

**1984** – Senior Lead Engineer, Hubble Space Telescope (HST) Project Office, Assembly and Verification

**1989** – Senior Lead Engineer, HST Chief Engineer's Office, Assembly and Verification

### **Kennedy Space Center**

**1990** – Launch Site Integration Manager, Hubble Space Telescope

### **Marshall Space Flight Center**

**1991** – Chief Engineer, Chandra Spacecraft and Systems

**1999** – Senior Engineer, Systems Management Office

**2001** – Manager, Systems Engineering Office, SMO

**2003** – Manager, SMO, Safety and Mission Assurance Directorate

## Education

1964 – B. S., Mathematics and Physics, Northwestern State University, Louisiana



# Gerald F. Flanagan (continued)

Manager, Systems Management Office (SMO)



## Special Honors and Awards

NASA Medal for Exceptional Service, 2003

NASA Medal for Outstanding Leadership, 2000

Silver Snoopy, 1988

NASA Medal for Exceptional Service, 1980

Special Service Awards (11)

On-the-Spot Awards (5)

NASA Group Achievement Awards (2)

Sustained Superior Performance Awards (4)

Outstanding Performance Rating Awards (8)

## Additional Information

Married with 2 children, 3 grandchildren



# Fayssal M. Safie

Technical Assistant, Safety, Reliability and Quality Assurance Policy and Assessment Department



## Experience

- Over 17 years of experience including 12 years at MSFC
- Prepared 20 technical papers in Safety, Reliability, and Quality Assurance.
- Adjunct (Full) Professor at University of Alabama in Huntsville (UAH).
- Conducted several professional training courses for the American Society for Quality Control (ASQC).
- Extensive experience in failure data analysis on critical shuttle components.
- Serves as an Advisor/ consultant to the Safety & Mission Assurance organization as well as other organizations within –Marshall Space Flight Center and around NASA in matters related to risk assessment.
- Leading and conducting technical studies at the center and the NASA levels
- “Man on the Job” for the Marshall Space Flight Center (MSFC) for all matters pertaining to risk assessment and statistical analysis. This includes Quality, Reliability, and Safety.

## Education

- three Engineering degrees and one science degree including a Ph.D. in Industrial and Systems Engineering

## Special Honors and Awards

- NASA Exceptional Engineering Achievement Medal  
Given by the NASA Administrator in 1988 for conducting risk assessment in support of the “Return to Flight” activity
- NASA Quality Excellence Award  
Given by the NASA Associate Administrator for Safety & Mission Assurance for being selected the “Best of the Best” of all NASA S&MA for 1995
- Space Flight Awareness Flight Safety Award  
Given by the NASA Associate Administrator for S&MA, 1998
- Space Flight Awareness Group Achievement Award  
Given by the NASA Associate Administrator for S&MA and MSFC Center Director, 1998.
- Silver Snoopy Award for supporting Shuttle flight safety



# David J. Spacek

Technical Assistant to the Director



## Experience

- 2002** - Manager, Industrial Safety Department, NASA/Marshall Space Flight Center (MSFC), AL
- 2001** - Manager, Mission Assurance Department, NASA/MSFC, AL
- 2000**- Technical Assistant to the Director, Safety and Mission Assurance Office, NASA/MSFC, AL
- 1999**- Deputy Associate Director, Space Station and Payloads Assurance Directorate, NASA/Kennedy Space Center (KSC), FL
- 1998** -Chief, Independent Assessment and Audit Office, NASA/KSC, FL
- 1996**-Acting Chief, S&MA Project Integration Office, and Acting Chief, Independent Assessment and Audit Office, NASA/KSC, FL
- 1993**-Sr. S&MA Independent Assessment Engineer, Cryogenics & Propulsion Systems NASA/KSC, FL
- 1987**-Space Shuttle Main Engine (SSME) Systems Engineer, NASA/KSC, FL
- 1984**-Turbine Durability Engineer, Pratt & Whitney Aircraft, West Palm Beach, FL

## Education

- 1996-M.B.A., Florida Institute of Technology
- 1984-B.S.E. in Mechanical Engineering, University of Central Florida

## Special Honors and Awards

- MSFC Director's Commendation - 2003
- KSC Certificate of Commendation – 1997 & 1995
- Manned Flight Awareness (MFA) Launch Honoree – STS-62, 1994
- Group Achievement Awards:
  - S&MA Support Contractor Transition Team, 1996
  - STS-35 ET/Orbiter LH2 Disconnect R&R, 1991
  - STS-30R LH2 Recirculation Pump R&R, 1988
- Performance Awards – 1991 through present

## Additional Information

- April 1999 - While employed at KSC, selected to serve as Chairman of the Operational Readiness Inspection Committee (ORIC) for the E1 Test Facility at SSC
- 1999 - Selected to serve as the S&MA Directorate representative on the KSC 2000 Team (Center-wide reorganization).
- Married 20 years to wife Susan, and have four children: Jeremy, 18; Devon, 16; Lauren, 14; Jarred, 13



# Rondal C. Mize

Manager, Industrial Safety Department



## Experience

**To Present – April 2004** – Manager, Industrial Safety Department, MSFC S&MA

**To Present - May 1999** – Lead for the MSFC Contractor Excellence Award (CEA) Team and George M. Low Award (GML)

**April 2004 - August 2003** – Served as MSFC's Assurance Technology Center (ACT) Champion

**April 2004 - December 2000** – Technical Assistant to the SR&QS Policy Assessment Department

**May 2001** – Served as POC for the NASA Headquarters Process Verification Team Visit

**December 2000 - April 1999** – Technical Assistant to the S&MA Director

**October 1999** - ISO Implementation Team Executive Secretary

**October 1999** - ISO Implementation Focus Team Executive Secretary

**October 1999 – May 1992** - Served as the NOET Executive Secretary

**October 1999 – May 1999** -COTR for the HEI Support Contractor for S&MA

**April 1999 - September 1996** - Manager, Industrial Safety Office, MSFC S&MA

**April 1999 - January 1997** - Acting Director, Quality Assurance Office

**October 1997** – Served as a member of the ORI for the ATLAS IIAR

**August 1996** – November 1995 – Technical Assistant to Manager of the Observatory Assurance Office, S&MA

**April 1996** – Tethered Satellite System (TSS-1R) Failure Investigation Team Executive Secretary

**February 1996 – September 1995** – Supervisor, Project and Environmental Engineering Division, M&P Laboratory

**November 1995 – May 1993** Supervisor, Materials Science Branch, M&P Laboratory

**April 1995** – Assigned to the MSFC Science Institute Working Group

**December 1994 – January 1991** – M&P Laboratory Level II Lead Engineer for the Space Station Freedom

**June 1993** – Assigned as COTR for M&P Laboratory Support Contractor

**March 1993 - April 1988** – Chairman of the Materials Working Group, Level II Design Stand and Criteria Panel

**May 1993 - November 1990** – Technical Assistant to the M&P Laboratory Director

**November 1990 – January 1990** – Special Detail to the Materials Selection & Control Office, M&P Laboratory for the formalization of Space Station Freedom Planning

**January 1990 – March 1988** – Technical Assistant to the Director M&P Laboratory

**March 1988 – September 1986** - Supervisor Tooling Applications Branch, M&P Laboratory

**September 1987** – Served as Executive Secretary of the DM-8 Post Test Case Heating Investigating Team

**January 1987** – Lead for the Manufacturing Processing Team for Evaluation of the Block II SRM Design Study

**September 1986 – December 1985** – Technical Specialist, Tooling Applications Branch, M&P Laboratory

**January 1986** - Served as Executive Secretary of the Board of Investigation for the STS 51-L Accident

**December 1985 – December 1975** – Systems Safety Engineering Specialist, Safety Office

**June 1985** – Served as Executive Secretary of the Board of Investigation for the Thiokol Propellant Mixer Building Accident Investigation Team



# Rondal C. Mize (continued)

Manager, Industrial Safety Department



**March 1984** – Served as Executive Secretary of the Morton Thiokol Casting Pit Accident Investigation Team

**June 1972 – September 1965** – Served as the Pyrotechnics Expert for the Q&RA Laboratory

**December 1975 – December 1971** – Project Engineer, Program Engineering Office, Q&RA Laboratory

**December 1971 – February 1971** – Supervisor, Assembly Analysis Branch, Q&RA Laboratory

**February 1971 – March 1967** – Supervisor, Vendor Analysis Branch, Q&RA Laboratory

**March 1967 – September 1960** – Began service in the Q&RA Laboratory

## Education

1960-B.S. in Mechanical Engineering, Auburn University

## Professional and Honorary Societies

Professional Engineer Registration in the State of Alabama

Member of the Marshall Management Association, MSFC

Member of the System Safety Society, Huntsville

Member of Pi Tau Sigma, Honorary Fraternity for Mechanical Engineers

## Special Awards and Honors

Special Service Award – Coordinating the MSFC CEA and GML Awards, 2002

Coordinating the NASA SMA Director's Meeting, 2001

Serving on a S&MA Source Evaluation Board, 2000

Serving as Chair of the Annual MSFC Safety Awareness Day, 1999

On-the-Spot Award – Reviewing, Modifying, and Improving Documentation to satisfy SEC requirements for the S&MA contract re-competition, 1999

NASA Certificate of Appreciation – Support for MSFC to maintain ISO 9001 registration, 1999

NASA Certificate of Appreciation - Support for MSFC to obtain ISO 9001 registration, 1998

## Additional Information

February 2004 – LASER Program Participant to Gwin Elementary School, Hoover

February 2004 - LASER Program Participant to Simmons Middle School, Hoover

May 2001 - LASER Program Participant to Monrovia Elementary School, Madison

September 2000 – LASER Program Participant to Gwin Elementary School, Hoover

October 2001 – Served as the co-chair of the MSFC Safety Day 2001

September 1998 – LASER Program Participant to Pell City Elementary School



# Rondal C. Mize (continued)

Manager, Industrial Safety Department



February 1995 – Served as the Vice-Chairman of the Organizing Committee for the  
Second Aerospace Environmental Technology Conference

March 1994 – Served as Chairman of the Decorations Committee for the MSFC 8th Annual Retirement Banquet

March 1993 – Served on the Planning Committee for the MSFC 7th Annual Retirement Banquet

March 1990 – Served as Chairman of the Decoration Committee for the MSFC 4th Annual Retirement Banquet

September 1991 – Served on the Planning Committee for the 5th International Symposium on Materials in Space held in Cannes-Mandelieu, France

July 1991 – CFC Coordinator for the Materials and Processes Laboratory

July 1989 – CFC Coordinator for the Materials and Processes Laboratory

## Personal Information

Married to the former Sally Vandiver of Cullman. They have two children, a daughter and a son, and five Grandchildren. Both of their children are graduates of the School of Engineering of Auburn University.

Member of First Baptist Church, Cullman where he is a deacon and serves with his wife as Directors of the Pre-School Department.

Chief of the Reserve Deputy Unit of the Cullman County Sheriff's Department.

Past Chairman of the Zoning Board of Adjustment for the City of Cullman

Hobbies include, raising orchids, playing the piano, classical music



# Thomas W. Hartline

Manager, Advanced Projects Assurance Department



## Experience

**Present** – Navy Commander, Scientific and Technical Intelligence Production Officer, Navy Reserve Office of Naval Intelligence Unit 2109 (NR ONI 2109)

**1997** – Team Lead, Space Shuttle Main Engine Assurance Office, Marshall Space Flight Center

**1994** – Systems Safety Engineer, Space Shuttle Main Engine Assurance Office, Marshall Space Flight Center

**1992** – System Safety and Reliability Engineer, PRC Inc., Huntsville, AL

**1989** – Aviation and Shipboard Safety Officer/ Helicopter Pilot, USS TARAWA (LHA-1), San Diego, CA

**1985** – Helicopter Instructor Pilot, Heltraron Eighteen (HT-18), NAS Whiting Field, Pensacola, FL

**1983** – Helicopter Combat Search and Rescue Pilot, Hellsuppron Six (HC-6), NAS Norfolk, VA

## Education

1995 – M.S. in Mechanical/Aerospace Engineering, University of Alabama in Huntsville

1989 – Aviation Safety Officer Certification, Naval Postgraduate School, Monterey, CA

1981 – B.S. in Aerospace Engineering, United States Naval Academy

## Special Honors and Awards

Awarded NASA Exceptional Service Medal for work on Space Shuttle Main Engine Safety, 2003.

Awarded NASA Astronaut Personal Achievement Award “Silver Snoopy”, PRC Inc, 1994.

-Received National Aeronautical Association (NAA) Certificate of Accomplishment for Superior Airmanship as the top Navy Helicopter Pilot in 1989 U.S. National Helicopter Championships.

-Awarded Navy/Marine Corps Commendation medal for superior performance as a Navy Scientific and Technical Intelligence Analyst, Office of Naval Intelligence, 1999.

## Additional Information

- Flown over 3300 Flight Hours as a Naval Helicopter Pilot, including missions in Beirut and Operation Desert Storm.

- Naval Academy Information Officer, conducts community education and provides information in support of candidates interested in the Naval Academy and service as a Navy/Marine Corps Officer.

Past President of Huntsville Area Naval Academy Alumni Association.

-Married to Mary Hartline, Father of four, Elizabeth and triplets



# Terry J. Hamm

Technical Assistant to the Director



## Experience

**2001** – Acting Manager; System Safety, Reliability and Quality Assurance Department; Safety and Mission Assurance Office

**1999** - Deputy Manager; Safety, Reliability and Quality Assurance Department; Safety and Mission Assurance Office

**1994** – Director, SRB Assurance Office, Safety and Mission Assurance Office

**1989** – ASRM SRM&QA Manager; Shuttle Assurance Office; Safety, Reliability, Maintainability and Quality Assurance Office

**1989** – SRB SRM&QA Manager; Shuttle Assurance Office; Safety, Reliability, Maintainability and Quality Assurance Office

**1987** - Quality Engineer; SRM Redesign Team; Acting Resident Quality Engineer at Thiokol (Utah)

**1986** - Quality Engineer; Challenger Accident Analysis Team

**1985** - Quality Engineer; Product Evaluation Branch; Product Assurance Division; Reliability and Quality Assurance Office; Science and Engineering Directorate

**1983** - Joined MSFC as a professional engineering intern assigned to the Quality Engineering Branch; Product Assurance Division; Reliability and Quality Assurance Office; Science and Engineering Directorate

## Education

1983 B.S. in Mechanical Engineering, Mississippi State University

## Professional And Honorary Societies

Marshall Space Flight Center Management Association

## Special Honors and Awards

Numerous Certificates of Appreciation, Performance Awards, and Group Achievement Awards

## Additional information

Married to Elizabeth Butler; Twin six-year-old sons (Cade and Will)



# Dr. N. Jan Davis

Director, Safety and Mission Assurance Directorate



## **Marshall Space Flight Center, ORGANIZATIONAL ASSIGNMENT:**

Dr. Davis, a former astronaut, is Director of the Safety and Mission Assurance Directorate at NASA's Marshall Space Flight Center in Huntsville, Ala. She directs the safety, reliability and quality activities of all Marshall Center programs, including establishing and assuring compliance with NASA safety and mission assurance strategies, policies, and standards and implementing methods for identifying and assessing safety risks. The Marshall Safety and Mission Assurance Directorate serves as both a partner and a facilitator for the organizations at Marshall, incorporating safety and mission assurance functions as an intrinsic element in the development of new technologies, work planning and performance, fostering employee expertise and actively involving them in the improvement of systems, processes and procedures to assure the success of the Agency. She was named to the position in August 2003.

## Experience

**2001** – Director, Flight Projects Directorate, Marshall Space Flight Center

**1999** – Deputy Director, Flight Projects Directorate, Marshall Space Flight Center

**1998** – Director of the Human Exploration and Development of Space Independent Assurance Office, NASA Headquarters

**1987** – Astronaut, Johnson Space Center, more than 670 hours in space over the course of her three Shuttle flights, STS-47 (1992), STS-60 (1994), and STS-85 (1997)

**1987** – Lead engineer for the redesign of the Solid Rocket Booster External Tank attach ring, Marshall Space Flight Center

**1986** – Team lead, Structural Analysis Division, responsible for the structural analysis and verification of the Hubble Space Telescope (HST), the HST maintenance mission, and the Advanced X-Ray Astrophysics Facility (later renamed Chandra X-ray Observatory), Marshall Space Flight Center

**1979** – Aerospace engineer, Marshall Space Flight Center

**1977** – Texaco, Bellaire, Texas

## Education

1985 – Doctor of Philosophy, Mechanical Engineering, University of Alabama in Huntsville

1983 – Master of Science, Mechanical Engineering, University of Alabama in Huntsville

1977 – Bachelor of Science, Mechanical Engineering, Auburn University, Auburn, Ala.

1975 – Bachelor of Science, Applied Biology, Georgia Institute of Technology, Atlanta, Ga.

## Professional and Honorary Societies

Fellow, American Society of Mechanical Engineers

Member, Tau Beta Pi, Omicron Delta Kappa, Pi Tau Sigma, and Sigma Gamma Tau honoraries, and Alpha Xi Delta social sorority



# Dr. N. Jan Davis (continued)

Director, Safety and Mission Assurance Directorate



## Special Honors and Awards

Presidential Rank of Meritorious Executive (2002)

NASA Outstanding Leadership Medal (1998)

NASA Exceptional Service Medal (1995,2002)

NASA Space Flight Medal (1992, 1994, 1997)

NASA Fellowship for Full-Time Study (1983)

American Society of Mechanical Engineers Ralph Coates Roe Medal (2001)

American Society of Mechanical Engineers National Old Guard Prize (1978)

Alabama Aviation Hall of Fame

Alabama Engineering Hall of Fame

## Additional Information

Director, Safety and Mission Assurance Directorate, QS01

NASA - George C. Marshall Space Flight Center

Marshall Space Flight Center, AL 35812



# Linder L. Metts, Jr.

Technical Assistant, Cargo Assurance Department



## Experience

- 2004** -Technical Assistant, Space Cargo Assurance Group, Safety and Mission Assurance Office
- 2003** -NASA Smart Card Project Manager, MSFC
- 2002** -Technical Assistant to Chief Information Officer, MSFC
- 2000** -ISS Propulsion Module Project Manager, MSFC
- 1999** -Assistant Manager, Space Shuttle Projects Office, MSFC
- 1997** -MSFC Resident Office Manager, Space Shuttle Projects Office, KSC
- 1995** -Technical Assistant, Space Shuttle Projects Office, MSFC
- 1991** -RSRM S&MA Manager, Safety and Mission Assurance Office, MSFC
- 1989** -Shuttle Systems Quality Engineer, Safety and Mission Assurance Office, MSFC
- 1987** -RSRM Quality Engineer, Safety and Mission Assurance Office, MSFC
- 1985** -Radar Systems Engineer, Hughes Aircraft Company

## Education

- 1985 – M.S. in Physics, Memphis State University
- 1983 - B.S. in Physics, Memphis State University
- 1977 - Bartlett High School, Bartlett, Tennessee

## Special Honors and Awards

- NASA Silver Snoopy
- Senior Executive Service Candidate Development Program
- NASA Professional Development Program

## Additional Information

- Computer Nerd
- Completed ISO 9000 Internal Auditor Training
- Married to former Margaret Barton since 1985 with 3 children:  
Meagan (Age 17), Lindsey (Age 16), and Allison (Age 13)



# Scott E. Jackson

Manager, Business Office



Scott Jackson was named, Manager of the Safety Mission Assurance (S&MA) Business Office at NASA's Marshall Space Flight Center (MSFC) in April 2004. Prior to this new assignment, Mr. Jackson was assigned as the Systems Management Office (SMO) Business Manager while still involved as the Manager of the Flight Mechanics Project for the 2nd Generation RLV Program at NASA's Marshall Space Flight Center (MSFC). The 2nd Generation RLV Program, which manages NASA's Space Launch Initiative, was responsible for performing business and technical risk reduction activities leading to full-scale development of a safer, more reliable and less expensive space transportation system for America's 21st century missions. The Flight Mechanics Project manager's technology development was in the areas guidance, navigation, and control.

Mr. Jackson joined NASA in 1985 as a co-op student in MSFC's Systems Analysis and Integration Lab. Prior to his current duties, Mr. Jackson held several positions with MSFC's Advanced Space Transportation Program, including Lead Systems Engineer for the Space Transportation Research Project. Launch Technology Project Manager, Deputy Manager for 3rd Generation Propulsion, and Program Integration Manager. He worked in the NASA Headquarters Chief Engineer's Office as part of the Profession Development Program from 1997 until 1998. After moving back to MSFC in 1998, he spent about one year working in the Space Transportation Program's Chief Engineer's Office.

Mr. Jackson received a Bachelor of Science degree in mechanical engineering from Tuskegee University in Tuskegee, AL, in 1989.

He is native of Pittsburgh, PA, and is married with two sons. His hobbies include fishing, gardening, and hot rods.

