Dear Student:

The Educational Programs Office (EPO) at the NASA Glenn Research Center (GRC) invites you to participate in the **Exploring Program**.

GRC will sponsor four Explorer posts concentrating on activities associated with different careers. The Explorer posts are as follows:

- Post 630 Aeronautics Activities (aviation activities focusing on aerodynamics)
- Post 631 Computer Technology (personal computing)
- Post 632 Balloon Sat (students construct data acquisition balloons)
- Post 633 Human Space Exploration (robotics/communications/human health)

You are invited to attend our Open House/Registration meeting. This meeting will be held on **Tuesday, September 23, 2008, from 5:30 p.m.** – **7:30 p.m.**, in the Development Engineer Building (Building 500) auditorium, at NASA GRC, 21000 Brookpark Road, Cleveland, OH.

During this meeting we will discuss program plans and activities, and answer any questions. Your parents are welcome to attend. Explorer participants must be at least 14 years of age, have completed the eighth grade, and be a U.S. citizen. We plan to begin the program at the end of September, 2008, and continue through the end of April, 2009. NASA Explorers will meet for two hours, once per week, on weekday evenings. Meeting dates and times will be discussed at the Open House.

Please note, registration for Exploring is \$20.00, and should be brought to this meeting to expedite enrollment. Enrollment fees will be accepted in the form of **cash only**. NO CHECKS WILL BE ACCEPTED!

Open House attendance is mandatory for participation in the program. Please call the GRC EPO at (216) 433-6656 no later than Thursday, September 18, 2008, to confirm your attendance at the Open House/Registration. For security reasons, we must have your name (and the name of anyone else in your party) on our guest list. Additionally, all attendees must present a photo ID upon arrival at GRC (children excluded).

If you have any questions or concerns, please contact me at (216) 433-8006. We hope to see you on September 23, 2008.

Sincerely,

Stephanie D. Brown-Houston Exploring Program Manager Educational Programs Office

Stephanie D. Brown Houston



NASA GLENN RESEARCH CENTER

2008 TO 2009 EXPLORING PROGRAM

Program Description

The Exploring Program is a collaborative undertaking of Glenn Research Center's (GRC) Educational Programs Office (EPO) and the Boy Scouts of America. This educational program provides exposure to research and technology activities specific to Glenn and is designed to promote students interest in science, technology, engineering, and mathematics (STEM).

Exploring is part of Learning for Life's career education program, affiliated with Boy Scouts of America (BSA), for young men and women who are 14 (and have completed the eighth grade) through 20 years old. Explorer posts are usually initiated by local community organizations by matching their expertise, people, and resources to that of interests of young people in the community.

The NASA Glenn Research Center in collaboration with the Boy Scouts of America, has hosted Explorer posts since the 1970s. Glenn volunteers, who serve as Exploring Advisors, lead these posts and meet once a week from October through April to explore various aspects of Science, Engineering, Technology, NASA, and the Glenn Research Center.

Program Goal

The primary goal of the Exploring Program is to expose students to different career choices. The primary goal of the NASA Glenn's Explorer posts is to expose students to various aspects of STEM career challenges within NASA and GRC.

The EPO is committed to increasing the number and diversity of students from underrepresented and underserved communities in NASA-related STEM fields. Traditionally, underrepresented groups in STEM include females, African-Americans, Hispanics, Native Americans, Pacific Islanders (natives of the Philippines, Guam, American Samoa, or Micronesia), and disabled students. **Please be advised that while the program is open to all equally qualified candidates**, GRC is very interested in recruiting applicants who belong to a recognized underrepresented group in STEM.

Glenn Research Center

The NASA vision—To improve life here, To extend life to there, To find life beyond. The NASA mission—To pioneer the future in space exploration, scientific discovery, and aeronautics research. As one of NASA's 10 field centers, the John H. Glenn Research Center (GRC) at Lewis Field supports all NASA missions and the major programs of our Agency.

GRC is located in the Great Lakes region of Ohio and occupies a 350-acre site adjacent to Cleveland Hopkins International Airport. The Center comprises over 140 buildings that contain a unique collection of world-class facilities. NASA GRC also includes the 6400-acre Plum Brook Station near Sandusky, Ohio.

GRC works as a diverse team in partnership with government, industry, and academia to increase national wealth, safety, and security, protect the environment, and explore the universe. As NASA moves forward to fulfill The Vision for Space Exploration, GRC is focusing on efforts related to Exploration Systems, such as technological advancements in spaceflight systems, aeropropulsion, space propulsion, power systems, nuclear systems, communication, and human research.

1

Eligibility Requirements

- The applicant must be a U.S. citizen and 14 years old (and have completed the eighth grade) by the program start date (September 30, 2008).
- The applicant must be a permanent resident of Northeast Ohio and be able to attend the weekly meeting.

Program Requirements Note:

- Students who were 2007 program participants must submit an application and meet the eligibility requirements.
- Students that have participated in the same post for 2 years will have to select a different post.
- Students are required to attend an orientation, along with their parent(s)/guardians(s).
- Students are expected to adhere to the tenure period (Oct-Apr), no exceptions.
- Students must be recommended by a math and science teacher to participate.
- Students must complete two forms located in the NASA Education Evaluation Information System (NEEIS); a profile and feedback form. Completion of these forms is a program requirement as feedback is a key to the success of our programs.

Application Information

Students seeking to participate in this program must submit a completed application on the night of Open House on September 23, 2008, to be held in the Development Engineering Building (DEB) auditorium, building 500, at the address below. **Dues for the program are \$20.00 per post membership (multiple membership is permitted if slots are available). No personal checks will be accepted for program dues.**

NASA Glenn Research Center Educational Programs Office 21000 Bookpark Road Cleveland, OH 44135–3191

The four activity groups in the Glenn Exploring Program are:

Post 630. Aeronautics Activities

Youth in this group explores the basic principles of aerospace vehicles and propulsion systems. The meetings/discussions are lead by Glenn engineers and are held at a NASA GRC site. Past activities have included gas turbine engine experiments, wind tunnel model development and testing, various computer model developments, model rocket development, and testing and free flight launches.

Post 631, Computer Technology

Youth in this group participate in computer activities based on individual ability level. They learn about invigorating fields in computer technology such as animation, robotics as well as programming and graphics! They are also exposed to the basic architecture of computers!

Post 632, Balloon Sat Technology

Youth in this group will build, test, launch to 100,000 ft, and recover a payload. Students will have a chance to develop and fly payloads for a flight mission like that of a sounding rocket. They will learn about the atmosphere, experiment design, electronics, and communications associated with the mission. They will develop and fly a Balloon Sat payload into the mid stratosphere, nearly 20 miles above the ground.

Post 633, Human Space Flight

Youth in this group, through hands-on activities, will explore the technology required to send astronauts to Mars! Discover interesting things like what is required to ensure astronaut health in space.

Program Dates

Post 630—September 30, 2008, to April 28, 2009

Post 631—October 2, 2008, to April 30, 2009

Post 632—October 1, 2008 to April 29, 2009

Post 633—September 30, 2008, to April 28, 2009

Program Selection Process

Selection in this program is based on the following:

• The application is reviewed for completeness and placement of student according to first, second, or third preference.

EDUCATIONAL PROGRAMS OFFICE

2008 TO 2009 EXPLORING PROGRAM STUDENT APPLICATION FORM

Please print in black or blue ink only.

| Name | The information provided on this page will remain strictly confidential. | | | | | | |
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| Last First M.I. Gender Male Gender Female | Nome Date of hirth | | | | | | |
| City, State, Country U.S. Citizen Yes No Note: If U.S. citizen and born outside the United States or Puerto Rico you must provide the information requested below and if selected provide documentation prior to start date. Naturalization no. Date issued Date expired Passport no. Date issued Date expired Date processed Date pr | | M.I. | Date of birti | | | Year (e.g., 10/15/1987) | |
| City, State, Country U.S. Citizen Yes No Note: If U.S. citizen and born outside the United States or Puerto Rico you must provide the information requested below and if selected provide documentation prior to start date. Naturalization no. Date issued Date expired Passport no. Date issued Date expired Date processed Date pr | Place of birth | | Gender | □Male | □F | emale | |
| Note: If U.S. citizen and born outside the United States or Puerto Rico you must provide the information requested below and if selected provide documentation prior to start date. Naturalization no. | City, State, Country | | | | | | |
| below and if selected provide documentation prior to start date. Naturalization no. | U.S. Citizen □Yes □No | | | | | | |
| Passport no. Date issued Date expired Date issued Date expired Date processed Da | | | | ou must provi | de the info | ormation requested | |
| Passport no. Date issued Date expired Date issued Date expired Date processed Da | Naturalization no | Date issu | ıed | Date ex | pired | | |
| Street address City State Zip code Telephone no.: () | | | | | | | |
| Alternate telephone no.: () | | t, you must i | include the apart | tment number.) | | | |
| Alternate telephone no.: () | City | State | | | | Zip code | |
| E-mail address: Alternate e-mail address: In order to determine the degree to which members of each ethnic/racial group are reached by this program, NASA requests that the student check the appropriate block(s) below. Submission of this information is VOLUNTARY. Ethnic background (check one that best applies) | | | | | | | |
| In order to determine the degree to which members of each ethnic/racial group are reached by this program, NASA requests that the student check the appropriate block(s) below. Submission of this information is VOLUNTARY. Ethnic background (check one that best applies) Hispanic/Latino(a) | | | | | | | |
| □ Hispanic/Latino(a) | | | | | | | |
| □ African-American/Black (Non-Hispanic) □ Native Hawaiian/Pacific Islander (Non-Hispanic) □ Asian American (Non-Hispanic) □ Native American/Alaskan Native (Non-Hispanic) □ Two or more races *A person having a physical or mental impairment that substantially limits one or more major life activities, has a record of such impairment, or is regarded as having such impairment. *Certification I certify by my signature below, that I am a citizen of the United States of America and that all information contained in this application is correct. I further understand and agree that any misrepresentation or inaccurate information on this completed application will be cause for disqualification for consideration and from participation in the Exploring and other NASA programs. I must participate for the full duration of the program (October 2008 through April 2009) and failure to do so or abide by program policies will result in my termination. Printed legal name: Student's signature: Date: Date processed Date processed Initials | • | s) | | | | | |
| □ Native Hawaiian/Pacific Islander (Non-Hispanic) □ Asian American (Non-Hispanic) □ Native American/Alaskan Native (Non-Hispanic) □ Two or more races □ Two or more races □ Certification □ certify by my signature below, that I am a citizen of the United States of America and that all information contained in this application is correct. I further understand and agree that any misrepresentation or inaccurate information on this completed application will be cause for disqualification for consideration and from participation in the Exploring and other NASA programs. I must participate for the full duration of the program (October 2008 through April 2009) and failure to do so or abide by program policies will result in my termination. Printed legal name: □ Student's signature: □ Date: □ Date received □ Initials □ Date processed | | | | | | | |
| Asian American (Non-Hispanic) Native American/Alaskan Native (Non-Hispanic) Two or more races *A person having a physical or mental impairment that substantially limits one or more major life activities, has a record of such impairment, or is regarded as having such impairment. Certification I certify by my signature below, that I am a citizen of the United States of America and that all information contained in this application is correct. I further understand and agree that any misrepresentation or inaccurate information on this completed application will be cause for disqualification for consideration and from participation in the Exploring and other NASA programs. I must participate for the full duration of the program (October 2008 through April 2009) and failure to do so or abide by program policies will result in my termination. Printed legal name: Student's signature: Date: Date processed Date processed Initials | | | | | | | |
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| □ Native American/Alaskan Native (Non-Hispanic) □ Two or more races Certification I certify by my signature below, that I am a citizen of the United States of America and that all information contained in this application is correct. I further understand and agree that any misrepresentation or inaccurate information on this completed application will be cause for disqualification for consideration and from participation in the Exploring and other NASA programs. I must participate for the full duration of the program (October 2008 through April 2009) and failure to do so or abide by program policies will result in my termination. Printed legal name: Student's signature: Date: Date processed Initials Date processed | The second secon | | | | | | |
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| Date received | | | | _ | | | |
| Date received | Student's signature: | | | · | | | |
| Initials | Date received | Offic | e use only | D | ate processe | ed | |
| 630 631 632 633 | Initials | 620 63 | 1 630 633 | | | | |

| School Information Name and complete address of high school (Do not abbreviate school name.) School name Street address City State Academic level as of fall 2008 9th grader 10th grader 10th grader 11th grader 12th grader 11th grader 1 | |
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| City State Zip code School e-mail address: | |
| School e-mail address: | |
| gth grader 10th grader 12th grader 11th grader 12th grader 11th grader 12th grader | |
| Placement Information I am interested in the following activity groups: rank in order of preference 1 to 3 (1 is the highest, 3 is the lowest) | |
| Placement Information I am interested in the following activity groups: rank in order of preference 1 to 3 (1 is the highest, 3 is the lowest) | |
| Placement Information I am interested in the following activity groups: rank in order of preference 1 to 3 (1 is the highest, 3 is the lowest) Aeronautics—Post 630 | |
| Lam interested in the following activity groups: rank in order of preference 1 to 3 (1 is the highest, 3 is the lowest) | |
| Tuesday, 5 to 7 p.m. Balloon Sat Technology—Post 632 Wednesday, 5 to 7 p.m. Computer Technology—Post 631 Thursday, 5 to 7 p.m. Check those that apply to you: have been in the Computer Post for | |
| □ I have been in the Computer Post for | |
| □ I have been in the Aeronautics Post for | |
| (A) (P) Year (A) (P) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | - wing |
| GRC Engineering Technology GRC Exploring GRC Exploring GRC Exploring GRC Exploring GRC TSU College Bound FIRST GRC LCCC/NASA Technology Outreach Program (TOP) GRC LCCC/NASA Young Women Exploring STEM GRC NASA Camp for Aerospace Education at Oberlin College GRC Shadowing GRC TSU College Bound FIRST NASA Explorers School School name School name SEMAA Site name | |
| GRC Exploring GRC LCCC/NASA Technology Outreach Program (TOP) GRC LCCC/NASA Young Women Exploring STEM GRC NASA Camp for Aerospace Education at Oberlin College GRC Exploring GRC NASA Camp for Aerospace SEMAA Site name | Year |
| GRC LCCC/NASA Technology Outreach Program (TOP) GRC LCCC/NASA Young Women Exploring STEM GRC NASA Camp for Aerospace Education at Oberlin College FIRST NASA Explorers School School name SEMAA Site name | |
| Outreach Program (TOP) GRC LCCC/NASA Young Women Exploring STEM GRC NASA Camp for Aerospace Education at Oberlin College FIRST NASA Explorers School School name SEMAA Site name | |
| Exploring STEM GRC NASA Camp for Aerospace Education at Oberlin College School name SEMAA Site name | |
| GRC NASA Camp for Aerospace Site name | |
| | |
| | |
| How did you learn about the program? Faculty member of school official Group visit to GRC Inquiry to NASA about summer opportunities NASA Web site GRC Educational Programs staff GRC Educational Programs Web site Friend who participated in LERCIP Previously an LERCIP participant Other (please specify) Relative who works for NASA/NASA contractor Name/relationship | r: |

| ESSAY |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Student must prepare a typed or legibly printed (using black ink) essay addressing the following: |
| Reason(s) for wanting to participate in the NASA Glenn Exploring Program. Tell what you would like to achieve during your tenure in the program. What area(s) would you like to improve academically (i.e., math, science, etc.)? |
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Print last name, first name, M.I._____

| Print last name, first name, M.I. | |
|-----------------------------------|--|
|-----------------------------------|--|

MATH TEACHER RECOMMENDATION FORM THIS FORM SHOULD BE RETURNED AS A PART OF THE APPLICANTS PACKAGE.

When returning this form, please give the applicant ample time to meet the deadline. NASA must receive applications no later than <u>September 23, 2008</u>. Please make two copies of the completed teacher recommendation form, insert original and two copies in an envelope, sign your name across the seal, and return envelope to applicant for package inclusion.

| Teacher's Name and School | | | | |
|------------------------------------------------------------------|----------------|---------------|---------|------|
| | | | | |
| Provide summer address for invitation to students' presentation. | | | | |
| How long have you known the student and in what capacity? | | | | |
| from long have you known the student and in what capacity: | | | | |
| How would you rate the student in the following areas | ? (Check one p | per category) | | |
| | Excellent | Very Good | Average | Poor |
| Accepts Responsibility | O | O | O | O |
| Conduct | O | O | O | O |
| Exhibits Leadership | O | O | O | O |
| Follows Rules and Directions | O | O | O | O |
| Independence | O | O | O | O |
| Initiative | O | O | O | O |
| Level of Math Interest | O | O | O | O |
| Team Player | O | O | O | O |
| Writing Skills | O | O | O | O |
| Overall Program Recommendation | Addition | nal Comments: | | |
| □ Highly Recommended | | | | |
| □ Recommended | | | | |
| □ Recommend with Reservation | | | | |
| □ Do Not Recommend | | | | |
| | | | | |
| Signature: | Date: | | | |
| You may be contacted for additional information, please provide | e: | | | |
| Telephone no: () E-mail address: | | | | |

| Print last name, first | name, M.I. | |
|------------------------|------------|--|
|------------------------|------------|--|

SCIENCE OR TECHNOLOGY TEACHER RECOMMENDATION FORM THIS FORM SHOULD BE RETURNED AS A PART OF THE APPLICANTS PACKAGE.

When returning this form, please give the applicant ample time to meet the deadline. NASA must receive applications no later than <u>September 23, 2008</u>. Please make two copies of the completed teacher recommendation form, insert original and two copies in an envelope, sign your name across the seal, and return envelope to applicant for package inclusion.

| Teacher's Name and School | | | - | |
|------------------------------------------------------------------|----------------|---------------|---------|------|
| Provide summer address for invitation to students' presentation. | | | | |
| To the seminor dealess to attribute to state to proceed the | | | | |
| How long have you known the student and in what capacity? | | | | |
| How would you rate the student in the following areas | ? (Check one p | per category) | | |
| | Excellent | Very Good | Average | Poor |
| Accepts Responsibility | O | O | O | O |
| Conduct | O | O | O | O |
| Exhibits Leadership | O | O | O | O |
| Follows Rules and Directions | O | O | O | O |
| Independence | O | O | O | O |
| Initiative | O | O | O | O |
| Level of Science/Technology Interest | O | O | O | O |
| Team Player | O | O | O | O |
| Writing Skills | O | O | O | O |
| Overall Program Recommendation | Addition | nal Comments: | | |
| □ Highly Recommended | | | | |
| □ Recommended | | | | |
| □ Recommend with Reservation | | | | |
| □ Do Not Recommend | | | | |
| | | | | |
| Signature: | Date: | | | |
| You may be contacted for additional information, please provide | :: | | | |
| Telephone no: () E-mail address: | | | | |

| Print last name, first na | ame, M.I | | |
|------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------|
| | PAREI | NT/GUARDIAN DATA | |
| TO STUDENT: Please have your pare in your application page | ent(s)/guardian(s) carefull kage. Your application is | ly read and complete both sincomplete without the sig | sides of this form. You must include it nature of a parent or guardian. |
| | ing information in its enti | | data, and indicate your approval on nwill remain strictly confidential. |
| (Please print) | | | |
| Last name of father or | male guardian | First | M.I. |
| Home address | | | |
| City | State | Zip code | Telephone no. (Best time to call) |
| Occupation | Emplo | yer | Work telephone no. or cell no |
| Last name of mother of | r female guardian | First | M.I. |

Complete reverse side of form.

Employer

Zip code

State

Home address

Occupation

City

Telephone no. (Best time to call)

Work telephone no. or cell no.

| Print last name, first name, M.I PARENT/GUARDIAN PERMISSION FORM | | | |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|
| | | | l ur |
| | Student's name (please print) | | |
| par | ticipate in the Glenn Exploring Program from October 2008 through April 2009. | | |
| 5 to | s program entity, also referred to as the NASA Glenn Exploring Program, is conducted 1 day a week from 5 7 p.m. A NASA sponsor or NASA contractor will provide the student's direct supervision. However, the | | |
| NA | SA Glenn Educational Programs Office (EPO) manages the overall program. | | |
| | elected for the above-mentioned program, I certify by my signature below that | | |
| * | I grant permission for my son/daughter to participate in the NASA Exploring Program and all program- related activities. | | |
| * | I ensure that my child will have transportation to and from the NASA Glenn Research Center. | | |
| * | I grant permission for two teachers (math and science) selected by my son/daughter to complete the | | |
| .*. | Teacher Recommendation Forms. | | |
| * | I am aware that the Teacher Recommendation Forms will be used as a selection factor for the Exploring Program at the NASA Glenn Research Center. | | |
| * | I understand that my child MUST adhere by all the program rules and guidelines established both by NASA | | |
| Ť | and the Educational Programs Office in order to participate in this program. If my child does not adhere to the rules and regulations, I understand that they could be terminated. | | |
| * | I understand the failure to abide by program/safety/security policies by my child, could result in termination | | |
| | from the program. | | |
| * | I understand that my child MUST be courteous and respectful to ALL of the program staff and students. If they are not, this is grounds for dismissal from the program. | | |
| * | I understand that if my child is dismissed from the program for any of the above reasons, he/she will NOT | | |
| | be eligible for participation in NASA Glenn Education Programs in the future. | | |
| * | I understand that my child is responsible for completing the required NEEIS forms. | | |
| * | I guarantee my child's participation for the entire duration of the program . (In the event he/she cannot fulfill this commitment, I understand that his/her position as an Exploring Program student will terminate and dues are nonrefundable.) | | |
| * | I authorize EPO to use any photographs of my son/daughter taken during their Exploring Program | | |
| | participation for promotion activities (i.e., Web site, newsletter, and promotion materials). | | |
| * | I authorize the staff to release my child's name and address to educational organizations so he/she can be | | |
| | provided with current information on scholarships, other educational programs, and college financial aid | | |
| | information to enable NASA and its contractors to track and monitor the progress of the Exploring Program | | |
| | participants. | | |
| Em | ergency contact: | | |
| | (Please print) | | |
| | | | |

Parent's/guardian's signature of consent

Relationship

Cell/pager no.

Date

Telephone no.

| Print last name, first name, M.I. | |
|-----------------------------------|--|
|-----------------------------------|--|

APPLICATION PACKAGE CHECKLIST

Before submitting this application, you should read it thoroughly. Special attention should be given to eligibility requirements, dates, and deadlines. Be sure that you have supplied all information and materials requested. You are encouraged to keep a copy of your completed application package, as we are unable to return any application materials submitted for the program. The application should be typed, if possible, or printed using black ink.

REQUIRED INFORMATION FOR COMPLETED APPLICATION PACKAGE: (check when completed)

| 1 | ORIGINAL, SIGNED 2008 TO 2009 EXPLORING PROGRAM APPLICATION FORM |
|---|-------------------------------------------------------------------------------------------|
| • | (Pages 1–12) |
| 2 | MATH TEACHER RECOMMENDATION FORM |
| 3 | SCIENCE TEACHER RECOMMENDATION FORM |
| 4 | PARENT/GUARDIAN PERMISSION FORM |
| 5 | ESSAY |
| 6 | TWO COPIES OF COMPLETE APPLICATION (DO NOT MAKE COPIES OF TEACHER RECOMMENDATION LETTERS) |

(Note: Application package will not be considered eligible unless the required copies are enclosed.)

All application materials are due by September 23, 2008, at the Open House event.

NASA Glenn Research Center 21000 Brookpark Road, Building 500 Auditorium Cleveland, OH 44135–3191

Should you have any questions, please contact
Stephanie Brown-Houston
Telephone no.: 216–433–8006
E-mail: Stephanie.D.Brown-Houston@nasa.gov

No personal checks will be accepted for program dues.

www.nasa.gov