



Meet A Real Scientist (M.A.R.S) SUNDAYS

"M.A.R.S Project" Scope and Parameters

- Held Every Sunday at Challenger Space Center, Steele Foundation Rotunda general session.
- Scientist and Engineering-led Demonstrations at 11:30 and 1:30, with related hands on activities beginning at 10:30 a.m. and lasting until 3:00 p.m.

Goal of the Visiting Volunteer Scientist/Engineer:

- To incorporate real-life science and technology experts into our public programs to help fulfill our mission: *to inspire, excite, and educate people of all ages about the mysteries and wonders of space, science and the universe in which we live.*
- To spur families' and children's interest in science, engineering, and math and to demonstrate what exciting careers are actually out there for them
- To reach out to companies in the Phoenix Valley and Arizona and work with them to heighten the awareness of Challenger Space Center Arizona's mission, public museum, education programs and focus on STEM –skill development, and volunteer opportunities. As a charitable institution (501.c.3) our educational goals are aimed at improvement of STEM skills though applied learning. Through this public outreach program and new partnerships we will generate enthusiasm for the advancement of these critical skills in our workforce.



Target Audience:

- 6-9th Grade level (Age 10 – 14), students and their families.

Scope of the demonstration for visiting Scientist/Engineer:

1) Demonstration.

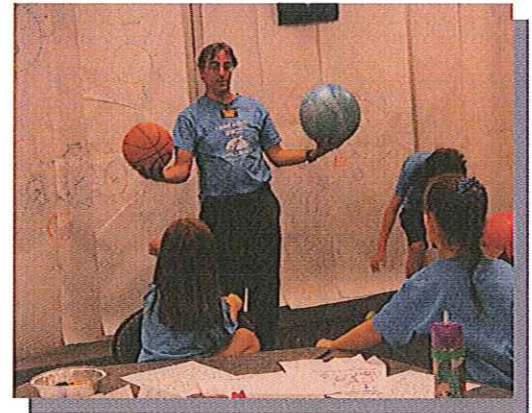
Ideally, a one hour (45-60 minutes allowed) interactive demonstration with audience participation, taking place in the rotunda general session area at 11:30 a.m. and again at 1:30 p.m.

The demonstration should start out with a brief self-introduction (approx. four minutes) of the Scientist, your job, what you do on a daily basis, including a brief explanation about your company.

Somewhere during the demonstration, you should briefly discuss (approx. four minutes) what kind of education and training it takes for your job and what is important in school for kids to focus on to become a Scientist.

Important skills to stress are: math, science, communication, reading, writing, problem-solving, studying hard, hard work with great rewards, etc.

The demonstration should end with a question and answer session and an invitation to the hands-on activities (see below).



There is a \$50 consumables allowance for the day. You will need to bring the consumables and receipts with you, or you may donate the consumables to the Challenger Center and we will provide you with a donation receipt. We are a public charity, 501.c.3.

Demonstration suggestions:

- A narrated Power Point slideshow with videos
- Building something during the talk culminating in testing/demonstrating the item at the end (possibly even outside demonstration if needed) *Example:* Propulsion Engineer provides a demonstration of assembling and static- firing a rocket motor, then brings it back inside and dissects it with the group.
- Multiple demonstrations

Challenger will provide a computer with projector, handouts, access to four electrical outlets, handheld wireless microphone, and lapel microphone. You can bring your own computer if you prefer.

Handouts must be provided to Challenger a minimum of 1 week in advance to allow for printing. You may print out 100 handouts yourself and bring them if you like.

Let us know if you have special needs beyond this.

With advance notice, Challenger can provide a Program Assistant for the hands on activities (Item #3 below) The Scientist or Engineer is encouraged to bring an assistant, such as a co-worker, if special skills or experience is needed for the demonstration.

3) Hands-On Activities.

Ideally, three hands-on activities (2-4 is acceptable) set up on tables for the time in between demonstrations. The scientist will be in the room with the activities. This is the time where one-on-one interaction with the public occurs. We can assist you with coming up with ideas for this.

The scientist will provide three activities that can be done by the public.

The activities can be:

- craft activities that the public takes with them
 - There should be completed examples of any craft items (as appropriate).



- Display or piece of paper with instructions (in case the scientist is busy at another table).
- small demonstration items that need to be assembled and tested at the end (items stay at the Center)
- Video/slide show to accompany activities, if needed
- other ideas the Scientist might have



4) Promotional Display

Visiting Scientist will provide a static Display in advance of your appearance date to help us promote your event and to generate interest about the Scientist/Engineer. The static display (table-top) typically can be crafted on poster board (24"Wx36"H) and should be made available one month in advance so Challenger Center can display it on a table the entire month in a high traffic area of the Challenger Center to generate interest in the event.

- A. The poster should contain pictures/patches/2-D items of interest to spur questions from the visitors
- B. A brief one paragraph biography of the Scientist
- C. A PowerPoint slideshow preview (4-6 slides) about the subject created by the Scientist
- D. Brochures or give-aways from scientist's company may be distributed the day of the event
- E. Challenger flyers highlighting the visit with a Scientist Program highlighting the visiting scientist will be provided.

5) Invitations to Friends & Co-workers

A goal of this program is for Challenger Space Center to reach out to science, engineering and technology companies across the Valley and increase awareness of our public museum and educational programs. Though it isn't required, we hope that you will promote your appearance within your company and encourage co-workers to visit the Center during your presentation and at other times. Our center is open Daily 10 a – 4 p and has Family activities each weekend. Now YOU are part of our fun family experience at Challenger--thank you! You and your program assistant(s) receive complementary admission to the Center on the day of your presentation, up to 3 people. Sunday guests pay General Admission. (There is a 1:00 p.m. simulated mission to Outer Space each weekend, which requires pre-registration boarding pass, and also includes general admission to the Center. Visit AZChallenger.org for more information on that option)



- 6) Presenters should let us know a minimum of one week in advance the requirements of Challenger as far as audio visual or special set up. Challenger will assist in set up and tear down.
- 7) On Site Contact person: Angela Westerfield, 623-322-2001 Cell: 602-312-7657

Operations & Finance Manager: Gerald De La O, 623-322-2013 Cell: 623-451-2410

WWW.AZChallenger.org