XTRONAUT ENTERPRISES

Space-Related Educational-Outreach Programs

January 2015
Education Policy Implemented for OSIRIS-REx

- Upon release of the President’s FY14 budget request, the New Frontiers Program issued guidance to the PI Office for OSIRIS-REx to remove Education and Public Outreach (WBS 11.0) as an element from the project.

- This direction was codified at Mission Confirmation and the PI-managed lifecycle cost of the project in the Decision Memo was reduced to reflect this change.

- $4M in scope was removed from the University of Arizona’s budget.
Removed from Programming

- **Formal Education**
  - Development of foundational materials
  - Development of kits and hands-on activities
  - Workshops for Teachers
  - Internships at UA, LM, GSFC, and other mission partners
  - Graduate Student Fellowships
  - Workshops for NASA Space Grant Students (formal/informal/outreach products)

- **Informal Education**
  - NMNH Exhibit
  - Travelling Exhibit
  - Informal Educator workshops
Xtronaut Enterprises Overview

- Xtronaut was founded to recover the lost STEM formal education components
- Xtronaut Enterprises supports education-based initiatives and outreach programs
- Xtronaut’s objective is to raise funds to support programs that increase student’s understanding of STEM disciplines
- Xtronaut seeks to promote the OSIRIS-REx mission over the extended duration of this voyage
- Xtronaut is led by scientific, education, and space leaders interested in advancing space exploration and understanding
Who are Xtronauts?

For more than 50 years men and women have been on the cutting edge of space exploration without ever leaving Earth.

They are the scientists, engineers, educators, students and public who have been a part of our unmanned space exploration programs – they are all Xtronauts.

Xtronauts work and study in the area of:

EXTREME, EXTENDED, EXPLORATION.

Only a few can be astronauts -- but we can all be Xtronauts – going further and sooner!

Students across the world can become Xtronauts!
Kits are Already in Development
Key Kit Features

- Teacher’s Guide and Student Workbooks
- An introductory video by Professor Lauretta for the class
- Video lesson guide featuring Professor Lauretta or other high-profile Xtronaut
- All materials to perform the hands-on experiment
- Other videos from our 321-Science video series to reinforce the scientific objective
- On-line discussion opportunities with Professor Lauretta and other Mission Experts
- Connection to Mission App containing Xtronaut mission updates, games, and exercises
- Teacher and School Use Flexibility: Kits can used for one class per year, multiple times per year, or in an immersive multi-kit process - customized by the school and the teacher
- All kits are available for three levels of learning - Introductory (targeting grades 3-4), Intermediate (targeting grades 5-6), and Advanced (targeting grades 7-8)
- Compliant with U.S. Common Core Curriculum requirements
Xtronaut Enterprises has partnered with Cox-Arizona to bring cutting-edge STEM education to Arizona schools.

Together Xtronaut and Cox are offering sponsorship packages to support this program.

Sponsors receive acknowledgement of their contributions through
- Television spots promoting OSIRIS-REx
- OSIRIS-REx mobile app
- Cox and Xtronaut internet sites
- Education workbooks and packaging.

Sponsorship opportunities range from $25K to $250K and more.

This program will allow for widespread appreciation of the OSIRIS-REx mission, provide much-needed STEM education materials to Arizona schools, and highlight the sponsors affiliation with these great programs.
Xtronaut Executive Team

**Michael Lyon | President and CEO**
Michael Lyon brings over thirty years of business development, strategic counseling, fundraising, and legal services experience. Mr. Lyon served as VP and General Counsel of Space Adventures and played a leading role in the $20 million flights of Dennis Tito and Mark Shuttleworth. Mr. Lyon has also been involved in several other space and deep ocean projects. Mr. Lyon also had senior roles at the FDIC and RTC during the last financial crisis, and has managed the acquisition of individual properties and bulk real estate portfolios and restructurings.

He holds a J.D. from Harvard Law School, where he graduated cum laude (1984), and a B.A. from Brandeis University, where he graduated summa cum laude in History (1981). He has also studied at the London School of Economics.

**Dante Lauretta | Science Advisor /Chief Kit Designer**
Dante Lauretta brings decades of experience in unmanned space flight, and serves as a Professor at the University of Arizona. Dr. Lauretta serves as the Principal Investigator for the OSIRIS-REx mission, managing the science program, mission cost, and development schedule.

He holds a Ph.D in Earth and Planetary Science from Washington University in St. Louis and a B.S. in Physics and Mathematics from the University of Arizona.