



GENESIS ENGINEERING SOLUTIONS, INC.

Solutions in Space and Technology

Celebrating
15 Years
of Engineering Excellence

Summer 2008 Edition

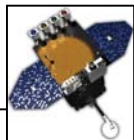
Did You Know?

Composite Materials continue to find new applications.

While this is not a new idea, the technology is increasingly used in new and exciting arenas. The greatest advantage of composite materials is the combination of strength and stiffness to produce a lightweight structure. By choosing an appropriate combination of reinforcement and matrix material, manufacturers can produce properties that exactly fit the requirements for a particular structure for a particular purpose.

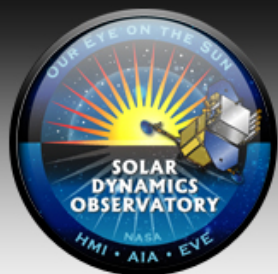
For example, NASA is studying this technology in a pursuit to develop a Composite Crew Module for future space flight. Genesis is involved in this program and is bringing years of experience to this effort.

Genesis Engineering continues to be excited about applying their expertise for future applications requiring composite materials.



Solar Dynamics Observatory

SDO is designed to help understand the Sun's influence on Earth and Near-Earth space by studying the solar atmosphere on small scales of space and time and in many wavelengths simultaneously.



Genesis' **Chris Johnson** is a Designer and Mechanical Engineer on this exciting NASA program.



"SDO has been and continues to be a truly enjoyable endeavor," says Chris. "It is a project founded in exciting science and I have been fortunate enough to be involved from the concept phase before instrument award through detailed design, fabrication, and integration. We are now in the flight testing phase."

The SDO is set to launch in the 2nd Quarter of 2009.



GES Quick Facts

- Winner of the Small Business Award in 2006 from the TECH Council of Prince George's County, MD
- Founded in 1993
- Engineering Products Include: Aerospace, Laser Technology, Composite Materials
- Services Include: Design, Manufacturing, Testing, Training
- Over 150 critical parts to orbit on numerous spaceflight missions
- GSA Schedule Contract Provider

Vision

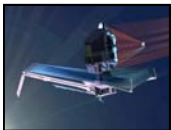
Genesis will further its proven leadership in engineering solutions for challenges in aerospace and high-tech commercial applications. Our versatility will enable us to grow as a premier aerospace and technology provider.

Mission

Genesis was founded to pursue passions, exercise talents, and create high-tech engineering solutions. Our mission can be stated simply: **We deliver excellence.**

We are set apart from other engineering companies by combining three key elements to our solutions: honest business conduct, technical proficiency, and responsive management. We take great pride to ensure that customer expectations are exceeded in all three of these areas. Our goal is to make our customers successful by delivering excellence, yesterday, today and tomorrow.

Some of our CURRENT PROJECTS



JWST

James Webb Space Telescope

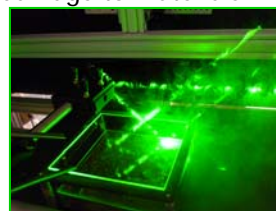
Genesis has designed, and is manufacturing the electronics compartment using composite materials.

It includes an innovative optical reflective louver design providing a heat-emitting solution for the critical thermal system.

JWST is set for launch in 2013.

Laser Research

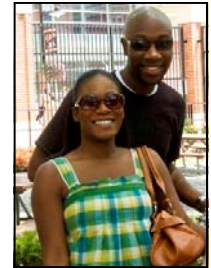
Currently, GES is performing research and development in areas of laser cleaning and in understanding the mechanisms of laser damage to materials.





Company Event

Genesis Engineering enjoyed a game together at the ballpark. The Baltimore Orioles played the Toronto Blue Jays. The weather was splendid, and all were able to take some time to relax.



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Summer Interns

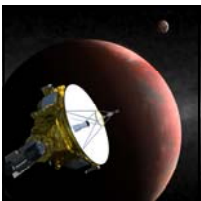


(L-R: Sagar Nirola, Dan Dassoulas, Stephan Deabreu)

Our summer interns have been a dynamic support to the engineering teams. Their projects have included:

- Hands on composite lay-up manufacturing
- Responsibility to take critical GSE concepts from design to fabrication readiness (JWST)
- Technical writing and presentations

UPDATE from one of our Completed Projects



New Horizons is the first mission in NASA's New Frontiers program of medium-class planetary missions. It will be the first spacecraft to visit Pluto and its moon, Charon.

Genesis assisted on this project by providing assembly, integration, testing, and launch support.

New Horizons' voyage through the Jupiter system earlier this year provided a bird's-eye view of a dynamic planet that has changed since the last close-up looks by NASA spacecraft. A combination of trajectory, timing and technology allowed it to explore details no probe had seen before, such as lightning near the Jupiter's poles, the life cycle of fresh ammonia clouds, boulder-size clumps speeding through the planet's faint rings, the structure inside volcanic eruptions on its moon Io, and the path of charged particles traversing the previously unexplored length of the planet's long magnetic tail.

Trivia

- PLUTO is one-fifth the size of Earth's moon.
- New Horizons has been traveling for 2 1/2 years since launch.
- It still has to travel for almost 7 more years before it reaches its destination.

