



GENESIS ENGINEERING SOLUTIONS, INC.

Solutions in Space and Technology

Celebrating
16 Years
of Engineering Excellence

Winter 2009 Edition

Technology Partnering Industry and Education



Genesis Engineering has partnered with the Aviation Campus of Middle Georgia College (MGC) to assist in the development of key hardware

for the JWST project.

MGC is providing excellent state of the art facilities and resources in the development of the IEC fabrication phase at a reasonable cost. Through this relationship, Genesis/GSFC has gained a competitive cost value with a new and expanding composite-shop facility. The college has gained exposure to high profile



programs, which presents a positive report for the investment that the State of Georgia has made in the facility.



Rick Krontz is the department Chair.

Rick says, "to be involved with and contribute to an historical event such as the James Web Space Telescope is very exciting for our college and especially the Aircraft Structural Technology Program. It means intense real world hands on training for the students and firsthand experience with the latest technology. Our college has an opportunity to become a credible academic partner in the aerospace industry and obtain visibility on a broader scale. The students are very excited and motivated to be a part of this project and are ready to put to work what they have learned in the classroom."



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.

James Webb Space Telescope



The IEC Team held the Critical Design Review (CDR) in December of 2008. The team is progressing with the fabrication stages of the flight IEC.



Additionally, Robert Rashford presented the IEC segment of the ISIM CDR in March of 2009. The ISIM CDR was attended by hundreds of scientists and engineers, including representatives from many partnering nations.



GES Christmas Dinner



*Christmas
Appreciation Dinner*



Laser Advancement



2009 Flexible Electronics & Displays Conference & Exhibits

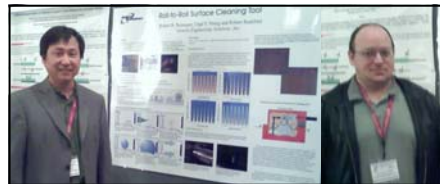


Last Month, Dr. Sheng and Dr. Bousquet had the opportunity to present their work on laser cleaning at the "2009 Flexible Electronics and Displays Conference" held in Phoenix, Arizona. Attendees at this conference presented their latest advances in flexible electronics/display manufacturing and technology.

They both presented a poster which generated much interest during the conference. Currently, they are following up with companies that are interested in learning more about the laser cleaning methods at Genesis Engineering.



With the assistance of Chris Matthews, they are extending the capabilities of the "Laser Induced Shock Wave Cleaning" method to include rigid substrates.



Dr. Chad Sheng and Dr. Robert Bousquet

Employee Highlight



Hristo Atanasoff recently joined GES as a senior structural engineer. He is currently supporting JWST through the IEC and its GSE hardware and testing; as well as pursuing other projects through NASA contacts.

Born in Bulgaria, Hristo and his parents escaped in 1972 immigrating to America; where they have since lived in the Washington D.C. metro area. He achieved a BS and MS in aerospace engineering from the University of Maryland; and then worked at Swales/ATK from 1992-2008 supporting all five Hubble (HST) missions. Other NASA projects have included structural analysis on over one-hundred astronaut tools, HST solar arrays, and instruments such as WFC3, STIS, NICMOS.

Hristo has twin 11 year old daughters, and they like to follow Maryland Women's basketball, go to amusement parks, and to travel abroad.



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