

SPACECOM

SPACE COMMERCE CONFERENCE AND EXPOSITION

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Space-Age Medical Solutions Capture the Spotlight

SpaceCom 2016 to Explore Use of Space Assets, Technologies to Address Medical Challenges on Earth

HOUSTON – Space and medical industry leaders will explore new ways to address key issues such as developing more effective medicines, combating the effects of aging and providing medical care in remote parts of the world using affordable access to space-based assets at the annual [SpaceCom \(Space Commerce Conference and Expo\)](#). The largest commercial space conference in the world, SpaceCom 2016 will be held Nov. 15-17 at the George R. Brown Convention Center in Houston.

“Working together to leverage cutting-edge, space-based assets, we can develop game-changing applications to address critical medical issues here on Earth,” said James Causey, executive director of SpaceCom. “Our unique approach at SpaceCom allows attendees to do much more than listen to speakers behind a podium. They get to discuss real-world problems and collaborate on next-generation solutions. By cross-pollinating knowledge and assets, we can devise applications never before imagined.”

Technologies developed for space, such as miniaturization and remote capabilities, are already making a dynamic impact on many sectors of the medical industry, including medical diagnostics and treatment. Biomedical research being conducted at the National Laboratory aboard the International Space Station is being used to develop new medications and to search for cancer cures, stroke prevention and other diseases. Hospitals are using human-controlled robotic arms to perform very fine brain surgery. Remote guidance techniques developed for the International Space Station are being used to extend medical capabilities in remote environments such as Mt. Everest and the Arctic Circle. SpaceCom will showcase these cross-over technologies and demonstrate existing applications that can be used to improve profits, create new product lines and gain market share.

“Technology developed for space exploration has resulted in so many medical applications that are regarded as commonplace today,” said Dr. Dorit Donoviel, Director, Biomedical Innovations Laboratory, Center for Space Medicine at Baylor College of Medicine. “Robotics, telemedicine and stem cell research have their roots in NASA programs, and now are significantly improving the quality of life on Earth. SpaceCom 2016 will gather the space, energy, and medical communities together to showcase the latest advancements, as well as launch critical, collaborative discussions about potential medical applications and research on the horizon. It is at the interface of fields that the greatest discoveries are made. This is a must-attend event for medical professionals interested in innovation.”

SpaceCom comes alive via five specific Applications Workshops, which is where the vital, cross-industry collaborations take place. At the 2016 event, medical professionals will benefit from workshops such as *Remote Medicine: Quality Care Anywhere and Everywhere*, where industry leaders will evaluate the state of the practice in telemedicine and explore diagnostic issues, including the devices and software applications.

Other Applications Workshops at SpaceCom 2016 include *Our Oceans: The Vital Resource*; *Materials: Reshaping our World*; *Climate: Affecting Every Business*; and *Natural Resources: Effective Husbandry*.

SpaceCom 2016 will also feature and examine space-derived technologies currently at work in the medical industry, including:

- Reduced size and increased sophistication of diagnostic and treatment instruments
- Stem cell research, protein crystal growth, cells microencapsulation, capillary and multiphase flow and wound healing
- Telemedicine and remote medical treatment
- Advances in space robotics impact specialized surgical procedures
- Pharmaceutical and biotechnological experiments discoveries via ISS experiments
- 3D endoscope to improve safety and reduce cost of surgery
- Rehabilitation equipment derived from astronaut, low-gravity training
- Sound research to improve sleep

The three-day event will also feature conference sessions with medical experts from companies such as Eli Lilly and Company, SpacePharma, BioServe Space Technologies, the Center for Space Medicine at Baylor College of Medicine, Henry Ford Innovation Institute and KBRWyle. In addition, there will be numerous opportunities for cutting-edge entrepreneurs, business leaders and investors to do business and forge partnerships to gain competitive advantage. A full conference program is available [here](#).

[Registration](#) for this year's event is currently open, and attendees who sign up before Sept. 9 can take advantage of a \$200 savings. [Sponsorships and exhibit booth space](#) are also still available. For more information, visit www.spacecomexpo.com.

About SpaceCom

[SpaceCom](#) (the Space Commerce Conference and Exposition) focuses on the application of space technologies to fuel business innovation across the advanced manufacturing, agribusiness, energy, maritime and medical industries. The event is produced in collaboration with [NASA Johnson Space Center](#), [Center for the Advancement of Science in Space \(CASIS\)](#), [Greater Houston Convention and Visitors Bureau \(GHCVB\)](#), [Houston First Corporation](#) and [National Trade Productions](#). For more information, visit www.spacecomexpo.com.

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