



NASA OMEGA Script-draft

Opener

Carl Sagan told us that the Earth is a very small stage in a vast cosmic arena. And that the pale blue dot of a planet that we call home is home to everyone we ever knew; every human being who ever lived. It's the aggregate of all our joys and sufferings, thousands of confident religions, ideologies, and economic doctrines, every inventor and explorer, every teacher in the history of our species, lived there on a mote of dust, suspended in a sunbeam.

Earth is all we have to live upon.

Today, we stand on the threshold of one of the most important transitions in human history — the transition from hunting-and-gathering our energy to cultivating sustainable, carbon-neutral, environmentally-friendly energy supplies.

Can we “cultivate” energy without competing with agriculture for land, freshwater, or fertilizer? Can we develop an “ecology of technology” that optimizes our use of limited resources? Will our ingenuity prevail in time to make a difference for our children and the “children” of all species?

With support from NASA's Aeronautics Research Mission Directorate (ARMD) and the California Energy Commission, a group of dedicated scientists and engineers are working on a project called OMEGA (Offshore Membrane Enclosures for Growing Algae), to provide practical answers to these critical questions and to leave a legacy of hope for the future.

Animation of the formation of our solar system.

Photo of the blue dot.

Transition to the segment of the existing video with the satellite and “spaceship earth.”

<p>“The project’s goal is to demonstrate the feasibility and scalability of OMEGA with respect to the biology, engineering, and economics, and to insure that its environmental impact remains beneficial at the large scale needed to replace our dependence on fossil fuels. The hope is that, based on this project, people worldwide will realize the potential of OMEGA, and adapt and develop versions of OMEGA for the good of all.”</p>	<p>(Snippet of Jonathan reading the quote or adding to it.)</p>
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NASA History / NASA involvement Life Support Systems and Technologies

<p>NASA began in 1958 to explore uncharted territories in space through the Mercury, Gemini, Apollo, and space shuttle missions. Throughout the years NASA accomplished many great scientific and technological feats in air and space while inspiring the creation of an array of new products that improved our daily lives such as scratch proof lenses, memory foam, ear thermometers, cordless tools, and water purification filters.</p> <p><i>“Interview with Lori – contributing to the history of NASA and the contributions it has made to all of us.”</i></p> <p>Today, NASA remains a leading force in scientific research and innovative technologies. The OMEGA project will add to the list of scientific contributions by providing significant quantities of sustainable, carbon-neutral biofuels, as well as food, fertilizer, and other useful products, while treating wastewater and sequestering carbon dioxide.</p> <p>NASA scientists lead the OMEGA research team that</p>	<p>The video will transition into NASA.</p> <p>Interview with Lori Garver, NASA Deputy Administrator; other NASA HQ people including Jaiwon John Shin, Hall, etc.</p> 
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<p>includes scientists and engineers from URS Corporation, the University of California, Universities Space Research Association, SETI Institute, and other industrial partners who recognize the urgent need to change our dependence on foreign oil and fossil fuels and bring innovative technologies to the forefront.</p> <p><i>“Interview to answer NASA’s interest in OMEGA, the project’s importance, and the prospect of creating alternative fuel”.</i></p>	<p>Interview appropriate NASA rep or other suggested person.</p>
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Closing

<p>The Earth is our home in this vast cosmos and there is no hint that help will come from elsewhere to save us from ourselves. It is up to us to make the most of it. Technology gives us hope that we may achieve scientific advances in creating alternative energy sources so that our planet may thrive and provide solace for many more generations.</p> <p>OMEGA will give us an alternative fuel option. Scientists, investors, supporters all need to join forces to make this concept a reality for us so that the “blue dot” continues to spin as a sustainable planet for its many in habitants.</p>	
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