

## Paper For Benaroya Asteroid Mining Group

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**Asteroid Mining Group - Papers, Presentations, and Links**  
Near-Earth Asteroid Mining Shane D. Ross Control and Dynamical Systems Caltech 107-81, Pasadena, CA 91125  
shane@cds.caltech.edu December 14, 2001 Space Industry Report Abstract The near-Earth asteroids are likely targets for resources to support space industrialization, as they appear to be the least expensive source of certain needed raw materials.

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## **Asteroid Mining - Who Wants to be a Trillionaire ...**

Because asteroids are loaded with minerals that are rare on Earth, near-Earth asteroids and the asteroid belt could become the mining centers for remotely-operated excavators and processing machinery. In the future, an industry could develop to send refined materials, rare metals and even free, clean energy to Earth from asteroids and other bodies.

## **Water from near-earth asteroids could fuel space mining**

...

NASA's Osiris-Rex Selects Target Asteroid Landing Site. The spacecraft spent a year mapping Bennu's rugged terrain, and next year it will touch down on the surface to collect a sample.

## **What do we need to know to mine an asteroid? -- ScienceDaily**

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## **Papers, Media, and Presentations**

Abstract. The purpose of this chapter is to propose a spacecraft concept that may be a good generic framework for operations on a variety of asteroid types, shapes and sizes, that can be performed in a straightforward way, regardless of whether mining operations are performed on-site or the body is moved into orbit about, say, the Moon.

## **Near-Earth Asteroid Mining - Virginia Tech**

Asteroid Mining M J SONTER ii Introduction . Frontispiece:  
Asteroid 243 Ida, a Main Belt S-type asteroid, photographed at a distance of 2400 km by the Galileo Jupiter probe on 28th August 1993. Asteroid Mining M J SONTER iii Introduction  
Acknowledgments: I wish to acknowledge the interest and support of my supervisors, Dr Bill Zealey, Head ...

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## **Space Mining: Ethical Issues and Some Possible Solutions**

...

The primary purpose of this paper is the delineation of possible commercial activities on the Moon as well as in ... PROSPECTS OF COMMERCIAL ACTIVITIES AT A LUNAR BASE H. BENAROYA 3 ... LEO, or for other space exploration activities, such as asteroid mining or Mars development, are better supplied from the lunar surface, if possible. ...

## **Paper For Benaroya Asteroid Mining**

Gertsch R: "Asteroid Mining", in Space Resources, NASA Publ SP-509, ed McKay and Duke, 1992 (Proceedings of NASA-ASEE Summer Study Workshop at California Space Institute, 1984).  
Gehrels T: "Hazards Due to Comets and Asteroids", University of Arizona Press, 1994. ... Paper for Benaroya ...

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## **A Techno-Economic Analysis of Asteroid Mining**

This paper discusses the resources available from NEAs, as well as the technical engineering aspects of possible mining project designs, including a survey of mission plans, mining and extraction techniques ... Asteroid mining is a concept that involves the extraction of useful materials from asteroids. Due to their accessibility, near-Earth ...

## **The Technical and Economic Feasibility of Mining the Near ...**

If there was a way to successfully establish refueling stations on these orbiting asteroids, says asteroid researcher and lead author of the paper, Andrew Rivkin, human space exploration could ...

## **Architecture for an Asteroid-Mining Spacecraft | SpringerLink**

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supplying resources in space, such as water. However, existing studies on the economic viability of asteroid mining have remained rather simplistic and do not provide much guidance on which technological improvements would be needed for increasing its economic viability. This paper develops a techno-economic analysis of asteroid mining with

## **How the asteroid-mining bubble burst - MIT Technology Review**

While the initial stages of asteroid mining might be similar, the capture and mining phases of the operation will likely vary, depending on an asteroid's size, where its ore is located and how far it is from Earth. Currently, there a few ideas for mining an asteroid under consideration.

**Study: Asteroids Provide Sustainable Resource | NASA**  
ANALYSIS OF AN ASTEROID MINING ARCHITECTURE UTILIZING

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SMALL SPACECRAFT ... An alternative approach is presented in this paper, basing the asteroid mining process on multiple small spacecraft, i.e ...

### **Asteroid Mining - Massachusetts Institute of Technology**

Asteroid mining was a gateway drug for high hopes and big dreams. Tamara Alvarez, a doctoral student at the New School in New York who has attended space conferences around the world, says that ...

### **Asteroid Mining Research Papers - Academia.edu**

Asteroid Mining: Key to the Space Economy (2006) Near Earth Objects as Resources for Space Industrialization (2001) The Technical and Economic Feasibility of Mining the Near-Earth Asteroids, (1998 paper) The Technical and Economic Feasibility of Mining the Near-Earth Asteroids, (1998 Master's Thesis updated 2012) PDF 207 pages : Presentations



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## **ANALYSIS OF AN ASTEROID MINING ARCHITECTURE UTILIZING ...**

What do we need to know to mine an asteroid? Date: September 19, 2017 Source: Europlanet Media Centre Summary: The mining of resources contained in asteroids, for use as propellant, building ...

## **Asteroids - The New York Times**

Space Mining: Ethical Issues and Some Possible Solutions. ... want to mine the same asteroid". It is unethical to start mining before all nations have agreed to allow space mining and a detailed set of laws, treaties, and acts are extremely comprehensive and exceedingly public. Some laws, acts, and treaties are already in play, but are they ...

## **Near-Earth Asteroid Mining - National Space Society**

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Asteroid mining is a technology in its earliest stages with massive start-up costs. Other sources of strategic elements may be discovered and alternative technologies may reduce demand before asteroid mining becomes a reliable source of strategic elements. Cost.

### **Paper for Benaroya - Asteroid Mining group**

the conceptualization of robotic and later human asteroid mining missions. The paper distinguishes resources that can be used in space from those that could be brought back to earth and sold.

### **(PDF) Asteroid Mining - ResearchGate**

Presentations: May 21, 2013, Testimony by Louis Friedman to the Subcommittee on Space - Next Steps in Human Exploration to Mars and Beyond (2pm at 2318 Rayburn House Office Building Washington, D.C. 20515) PDF WEBCAST March 28, 2013,

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Presentation by Paul Dimotakis and Louis Friedman on the KISS Study on Asteroid Return Mission to the NRC Technical Panel on Human Spaceflight, The Keck Center ...