

|| Astrophysics || NASA's Bennu Asteroid Sample Contains Carbon and Water: And Water Contains the Duo-Jewels of Life: Oxygen and Hydrogen: Already A School of Life ||



| | Sunday: October 15: 2023 | |  $\alpha$ . Initial studies of the 04.5-billion-year-old asteroid Bennu sample, collected in space and brought to Earth by NASA show evidence of high-carbon content and water,

which together could indicate the building blocks of life on Earth may be found in the rock. NASA made the news Wednesday from its Johnson Space Centre in Houston where leadership and scientists showed off the asteroid material for the first time since it landed in September.

This finding was part of a preliminary assessment of NASA's Origins, Spectral Interpretation, Resource Identification and Security: Regolith Explorer: OSIRIS-Rex, science team. "The OSIRIS-Rex sample is the biggest carbon-rich asteroid sample ever delivered to Earth and will help scientists investigate the origins of life on our own planet for generations to come." Said NASA Administrator Bill Nelson. "Almost, everything we do at NASA, seeks to answer questions about who we are and where we come from.

NASA missions like OSIRIS-REx will improve our understanding of asteroids, that could threaten Earth while giving us a glimpse into what lies beyond. The sample has made it back to Earth but, there is still so much science to come, science like we've never seen before."

Although, more work is needed to understand the nature of the carbon compounds found, the initial discovery bodes well for future analyses of the asteroid sample. The secrets held within the rocks and dust from the asteroid will be studied for decades to come, offering insights into how our solar system was formed, how the precursor materials to life may have been seeded on Earth and what precautions need to be taken to avoid asteroid collisions with our home planet.

The goal of the OSIRIS-REx sample collection was 60 grams of asteroid material. Curation experts at NASA Johnson, working in new clean rooms built, especially, for the mission, have spent 10 days so far carefully disassembling the sample return hardware to obtain a glimpse at the bulk sample within. When the science canister lid was first opened, scientists discovered bonus asteroid material covering the outside of the collector head, canister lid and base. There was so much extra material it slowed down the careful process of collecting and containing the primary sample.

"Our labs were ready for whatever Bennu had in store for us." Said Vanessa Wyche, the Director, NASA Johnson. "We've had scientists and engineers working side-by-side for years to develop specialised glove-boxes and tools to keep the asteroid material pristine and to curate the samples so researchers now and decades from now, can study this precious gift from the cosmos."

Within the first two weeks, scientists performed quick-look analyses of that initial material, collecting images from a scanning electron microscope, infrared measurements, X-ray diffraction and chemical element analysis. X-ray computed tomography was, also, used to produce a three-D computer model of one of the particles, highlighting its diverse interior. This early glimpse provided the evidence of abundant carbon and water in the sample.

"As we peer into the ancient secrets preserved within the dust and rocks of asteroid Bennu, we are unlocking a time capsule, that offers us profound insights into the origins of our solar system." Said Dante Lauretta, OSIRIS-REx Principal Investigator, the University of Arizona, Tucson. "The bounty of carbon-rich material and the abundant presence of water-bearing clay minerals are just the tip of the cosmic iceberg.

These discoveries, made possible through years of dedicated collaboration and cutting-edge science, propel us on a journey to understand not only our celestial neighbourhood but, also, the potential for life's beginnings. With each revelation from Bennu, we draw closer to unravelling the mysteries of our cosmic heritage."

For the next two years, the mission's science team will continue characterising the samples and conduct the analysis needed to meet the mission's science goals. NASA will preserve, at least, 70% of the sample at Johnson for further research by scientists worldwide, including future generations of scientists.

As part of OSIRIS-REx's science programme, a cohort of more than 200 scientists around the world will explore the regolith's properties, including researchers from many US institutions, NASA partners Japan Aerospace Exploration Agency:JAXA), Canadian Space Agency:CSA and other scientists from around the world. Additional samples will, also, rbe loaned later this fall to the Smithsonian Institution, Space Centre Houston and the University of Arizona for public display.

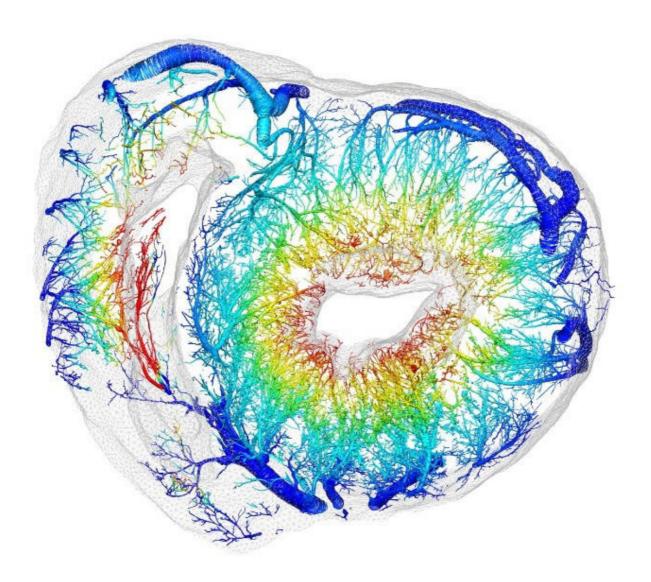
NASA's Goddard Space Flight Centre in Greenbelt, Maryland, provides overall mission management, systems engineering and the safety and mission assurance for OSIRIS-REx. Lauretta, the Principal Investigator, leads the science team and the mission's science observation planning and data processing. Lockheed Martin Space in Littleton, Colorado, built the spacecraft, provided flight operations and was responsible for capsule recovery. Goddard and KinetX Aerospace were responsible for navigating the OSIRIS-REx spacecraft. Curation for OSIRIS-REx, including processing the sample when it arrived on Earth, is taking place at NASA Johnson.

Find more information about NASA's OSIRIS-REx mission at: <a href="https://www.nasa.gov/osiris-rex">https://www.nasa.gov/osiris-rex</a>

Caption: A view of the outside of the OSIRIS-REx sample collector. Sample material from asteroid Bennu can be seen on the middle right. Scientists have found evidence of both carbon and water in initial analysis of this material. The bulk of the sample is located inside: Image: NASA:Erika Blumenfeld and Joseph Aebersold ::::ω::::

| | Readmore at thehumanion.com/Medicine.htm | | reginehumanicsfoundation.com | | 161023 | |

## **Humanics: All-For-One-One-For-All**



| | Selfishness Is the Most Definitive Way to, Absolutely, Harm One's Very Own Self, As Well As, Everyone and Everything Else: In Other Words, Selfishness Is Nothing But Absolute, Complete and Comprehensive Absence of Questioning or Thoughtfulness or Consideration, Which Makes Us Think and That, Thus, Enables Us to Reach the Rational Base and Foundation in Life and in Existence: This Means That Selfishness, Actually, Is a Terminal Enemy of the Agency of the Human Mind, Which It Keeps on Tearing Away and Apart by Being Devoid of Questioning and Thoughtfulness Because the Very Agency of the Human Mind Is a 'Structure', Created by the Architectonics of the Architecture of Human Rationality, Which Requires a Human Agency of the Human Mind to Put It to Use by Thinking, Questioning, Consideration, Analysing, Learning and Developing, All of Which Selfishness Terminates: Humanics: Humanics: All-For-One-One-For-All

The Image Caption: The Heart: Shortlisted In The BHF Reflections Of Research Competition 2016: Image: Simone Rivolo

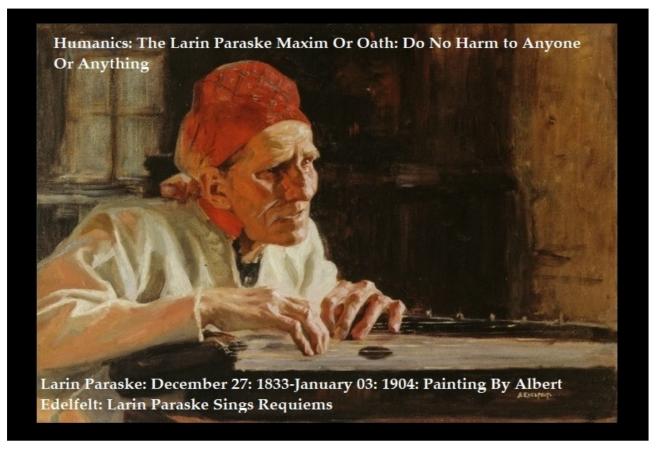


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# | | The Larin Paraske Maxim Or Oath: To Do No Harm to Anyone Or Anything | |



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# **Humanicsxian Economics**





#### What Is Humanicsxian Economics

Say: I Carry the Infinities of Making All Beings Happy:

Say: I Commit to Organise the Largest Feast For All Humanity Where Each and Every Human Soul Sit at the Same Table of Liberty and Equality to Eat and Drink From the Bounties of This Mother Earth and of the Human Works and Labours:

Say: I Commit to An Economics That Is Clean Green Circular and Sustainable:

Say: I Commit to an Economics That Does No Harm to Anyone or Anything:

Say: I Commit to Establish an Economics That Is Founded on Moral Science So That Humanity Is Let to Be and Do Nothing But Humanity Naturale: Being and Doing an Infinity of Goodness Righteousness and Universal Harmony of Peace Unfolding Itself In By and With Social Morality of Civic Societies



And Further Say: I Commit to Found an Economics That Empowers the Entire Humanion With the Highest Degree of Education Continual and Life-Long Learning Development and Progression: Say: And Sovereignty Shall Be Returned to All Humanity Through the Direct Involvement Engagement and Participation of All Human Individual Beings Through Humanicsovics the Public Affairs Management System Run By All Citizens Working Together Without Political Parties: That Is a Human Enterprise in Humanicsovics Where Ownership Money and Their Powers and Prowess Have Been Eradicated and Replaced by Belongingship and That is Humanicsxian Economics: And Say: I Commit to Exist In By and With the High-Humanical Maxim: All-For-One and One-For-All: This Is Humanicxian Economics: This Is Why Regine Humanics Foundation Ltd and Regine Group of Publications Exist to Work and Take Forward The Philosophy Political Philosophy Political Economics and the Vision of Humanics to the Wider World and Wider Humanity For a Better Human Condition For All Humanity Across Mother Earth: One Humanity As One Humanion on One Mother Earth on One Sunnara on One Home Bay Milky Way Galaxy on One Universana: Humanity: We Are One: An Infinity Unfolding Itself: Thursday: June 25: 2020

# Humanicsxian Economics in Two Phases of Humanics Pre-Humanical Phase: Kapitalawnomics

Pre-Humanical Phase: Kapitalawnomics: Capitalism Is Brought Under the Sovereignty of the People and Re-architectured to Serve the People Under the Power and Prowess of the Rule of Law at All Times and Used to Develop Everything Towards Humanical Societies || At This Phase These Shall Become Reality: Right to Universal Natural Air || Right to Universal Natural Environment || Right to Universal Degree-Level Education || Right to Universal Balanced and Nutritional Food and Drink || Right to Universal Employment || Right to Universal Income || Right to Universal Home || Right to Universal Health || Right to Universal Social Care || For All Humanity Across the Earth Equate to Building-Block Foundational Human Rights: And the Entire Humanity Joining Together As All Individuals In a Humanion, Forming the First All-Humanity Sovereignty-Naturale Habitat-Body on Earth and on This Universe as the First Ever International and Universal All-Humanity State and Government for the Whole World as One Body With Its Legislature Executive Judiciary Financial-Judiciary Rule of Law Civic Service Compact and Its Own Central Bank and Its Own Currency That Is the New International Currency || This Phase Is Done Through and by Working Humanity Organising As Political Forces and Parties.

# **Humanical Phase**

Human Enterprise: Ownership Money and Their Powers and Prowess Are Eliminated and Replaced by Belongingship Whereby Humanity Reach Liberty and Equality and All Human Economics Endeavours Are Organised and Run Under Human Enterprise and the Whole Public Affairs Management Is Run and Conducted by Humanicsovics Whereby All Individual Humanity Work Together As Organised People Parliaments As Their Own High-Representatives: This Is Humanicsovics | | This Is What the World's Working and Non-Working Humanity on Poverty-Wage on Punishment-Social-Security on Destitution-Abandonment-No-Security and the Powerless and Homeless Humanity Must Rise to Fight For and Reject All Plastering Tinker-Works by Any Political Forces: This Is Why It Is Time to Rise As One and Unite and Organise to Begin Again: Where Are the Younger Generations: Because If We Humanity Have Any Future It Is In Your Hands Hearts Minds Souls Eyes and Vision: Believe: Humanity Naturale Is an Infinity Unfolding Itself and In Being and Doing Such Humanity Naturale We All Exist by the High-Humanical Maxim: All-For-One and One-For-All and With This Humanical Societies Appear All Across the Earth and They All Form a Grid of a Humanical Civilisation, Led and Run by All Humanity Working Together at the Highest of All Bodies: The International and Universal State and Government of the Entire Humanion

#### What Are Building-Block Foundational Human Rights



Ask Your Political Leaders About Building-Block Foundational Human Rights and Ask Them About Humanics

### The Building-Block Foundational Human Rights

A: Absolute Right to Live in Clean, Healthy, Safe and Natural Environment

B: Absolute Right to Breathe Natural, Fresh, Clean and Safe Air

C: Absolute Right to Necessary Nutritional Balanced Food and Drink

D: Absolute Right to Free Medical Care at the Point of Need

E: Absolute Right to an Absolute Home

F: Absolute Right to Free Degree-Level Education and Life Long Learning

G: Absolute Right to Guaranteed Social Care

H: Absolute Right to a Universal Income

I: Absolute Right to a Job

J: Absolute Right to Dignified Civic and Human Funeral Paid Through by Universal Income

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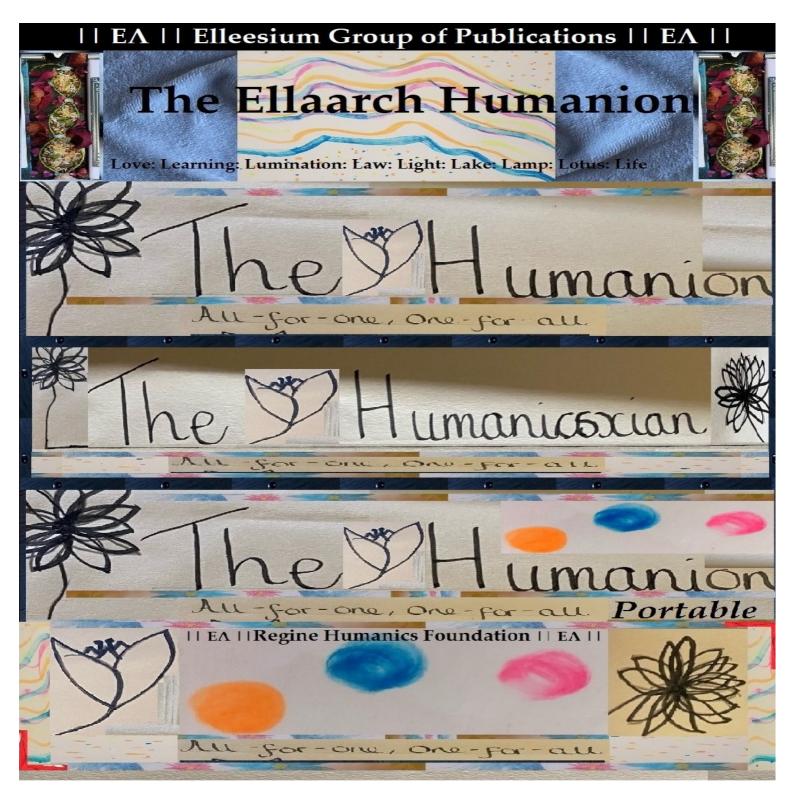


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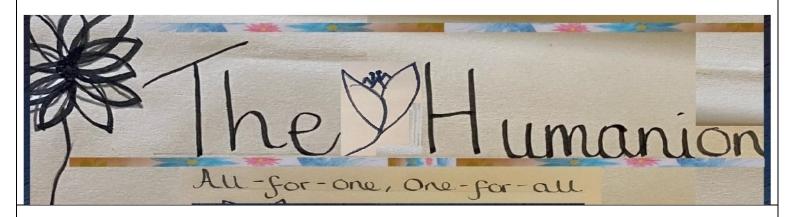
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Killing Mechanism Capitalism IS Unsustainable: The World Shall Change One Day and Every Change Begins with an Idea, with a Vision:

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# Editor-In-Chief Munayem Mayenin editor@thehumanion.com

## **Chief Deputy Editor**

Dr J Everet Green JEveretGreen@thehumanion.com

Editorial Contact: editor@thehumanion.com

The Foundation Contact: <u>elleesium@reginehumanicsfoundation.com</u>
The Ellaarch Humanion Contact: elle@theellaarchhumanion.com



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