**Richard Charles Hoagland 1945- - Wiikipedia Sept 18 2015**

https://en.wikipedia.org/wiki/Richard\_C.\_Hoagland

 

  

**Richard Charles Hoagland** (born April 25, 1945), is an American author, and a proponent of various [conspiracy theories](https://en.wikipedia.org/wiki/Conspiracy_theories) about [NASA](https://en.wikipedia.org/wiki/NASA), lost alien civilizations on the [Moon](https://en.wikipedia.org/wiki/Moon) and on [Mars](https://en.wikipedia.org/wiki/Mars) and other related topics.

His writings claim that advanced civilizations exist or once existed on the Moon, Mars and on some of the moons of [Jupiter](https://en.wikipedia.org/wiki/Jupiter) and [Saturn](https://en.wikipedia.org/wiki/Saturn), and that NASA and the [United States government](https://en.wikipedia.org/wiki/Federal_government_of_the_United_States) have conspired to keep these facts secret. He has advocated his ideas in two published books, videos, lectures, interviews,[[5]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-6)[[6]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-camelot2007-7) and press conferences.[[7]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-NPC-8)[[8]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-9)

Hoagland has been described by [James Oberg](https://en.wikipedia.org/wiki/James_Oberg) of [*The Space Review*](https://en.wikipedia.org/wiki/The_Space_Review), [Phil Plait](https://en.wikipedia.org/wiki/Phil_Plait) of [Badastronomy.com](https://en.wikipedia.org/wiki/Badastronomy.com#Badastronomy.com), and [Ralph Greenberg](https://en.wikipedia.org/wiki/Ralph_Greenberg), a professor at [Washington University](https://en.wikipedia.org/wiki/Washington_University), as a conspiracy theorist and [fringe](https://en.wikipedia.org/wiki/Fringe_theory) [pseudoscientist](https://en.wikipedia.org/wiki/Pseudoscience).[[9]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-darkside-10)[[10]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-nonsense-11)[[11]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-greenberp-12)

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**Background**

According to Hoagland's *curriculum vitae*[[2]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-fbpage-2) he was a Curator of Astronomy and Space Science at the [Springfield Science Museum](https://en.wikipedia.org/wiki/Springfield_Science_Museum), 1964–1967, and Assistant Director at the [Gengras Science Center](https://en.wikipedia.org/wiki/The_Children%27s_Museum%2C_Connecticut)[[note 2]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-13) in [West Hartford, Connecticut](https://en.wikipedia.org/wiki/West_Hartford%2C_Connecticut), 1967–1968, and a Science Advisor to [CBS News](https://en.wikipedia.org/wiki/CBS_News) during the [Apollo program](https://en.wikipedia.org/wiki/Project_Apollo), 1968–1971. In July 1968, Hoagland filed a copyright registration for a planetarium presentation and show script called *The Grand Tour*.[[12]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-14) In 1969, he was contracted by the [Grumman Aircraft Engineering Corporation](https://en.wikipedia.org/wiki/Grumman) to write a chapter about the Moon for a [press book](https://en.wikipedia.org/wiki/Pressbook).[[*citation needed*](https://en.wikipedia.org/wiki/Wikipedia%3ACitation_needed)] The Grumman publication was intended to educate members of the media and government officials concerning the [Apollo Lunar Module](https://en.wikipedia.org/wiki/Apollo_Lunar_Module).

A popular [planetarium](https://en.wikipedia.org/wiki/Planetarium) lecturer at the Springfield Science Museum, Hoagland produced a program called "Mars: Infinity to 1965" to coincide with the [Mariners 3 and 4](https://en.wikipedia.org/wiki/Mariner_program) missions.[[13]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-15) Charles Renaud produced[[14]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-16) a radio program for [WTIC (AM)](https://en.wikipedia.org/wiki/WTIC_%28AM%29) in [Hartford, Connecticut](https://en.wikipedia.org/wiki/Hartford%2C_Connecticut), *The Night of the Encounter*, which covered the July 14, 1965 [Mariner 4](https://en.wikipedia.org/wiki/Mariner_4) flyby of the planet Mars.[[note 3]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-17) Hoagland was interviewed for the program at the Springfield Science Museum by WTIC announcer [Dick Bertel](https://en.wikipedia.org/wiki/Dick_Bertel).

In 1976, Hoagland, an avid [*Star Trek*](https://en.wikipedia.org/wiki/Star_Trek) fan, initiated a letter-writing campaign that successfully persuaded President [Gerald Ford](https://en.wikipedia.org/wiki/Gerald_Ford) to name the first [Space Shuttle](https://en.wikipedia.org/wiki/Space_Shuttle) the [*Enterprise*](https://en.wikipedia.org/wiki/Space_Shuttle_Enterprise), replacing the previously slated name for the prototype vehicle, *Constitution*.[[15]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-18)[[note 4]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-19) The *Enterprise* was rolled out for public display on September 17, 1976, [Constitution Day](https://en.wikipedia.org/wiki/Constitution_Day_%28United_States%29).

Hoagland authored the book *The Monuments of Mars: A City on the Edge of Forever* (published in 1987), and co-authored the book *Dark Mission: The Secret History of NASA*, which was ranked 21st on November 18, 2007 on [The New York Times Best Seller list](https://en.wikipedia.org/wiki/The_New_York_Times_Best_Seller_list) for paperback nonfiction.[[16]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-20) [Richard Grossinger](https://en.wikipedia.org/wiki/Richard_Grossinger), the founder of [North Atlantic Books](https://en.wikipedia.org/wiki/North_Atlantic_Books), writes that *Monuments* became the most successful title published by North Atlantic, and that at its peak the book sold over 2000 copies per month.[[17]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-grossinger-21) Grossinger also reports that Hoagland wrote much of the book while in [Los Angeles county jail](https://en.wikipedia.org/wiki/Men%27s_Central_Jail).[[17]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-grossinger-21)

Hoagland runs *The Enterprise Mission* website,[[18]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-22) which he describes as "an independent NASA watchdog and research group, the Enterprise Mission, attempting to figure out how much of what NASA has found in the solar system over the past 50 years has actually been silently filed out of sight as classified material, and therefore totally unknown to the American people."[[19]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-23)

Hoagland appeared regularly as the "Science Advisor" for [*Coast to Coast AM*](https://en.wikipedia.org/wiki/Coast_to_Coast_AM), a late-night [radio talk show](https://en.wikipedia.org/wiki/Talk_radio), until being replaced by Robert Zimmerman in July 2015.[[20]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-CtCGuest-24)

While Hoagland makes frequent reference to his receipt of the "International Angstrom Medal for Excellence in Science" in August 1993, the organization that awarded the medal, The Angstrom Foundation Aktiebolag, founded by Lars-Jonas Ångström, was not authorized by [Uppsala University](https://en.wikipedia.org/wiki/Uppsala_University) or the [Royal Swedish Academy of Sciences](https://en.wikipedia.org/wiki/Royal_Swedish_Academy_of_Sciences) to make use of the academy's [Anders Jonas Ångström](https://en.wikipedia.org/wiki/Anders_Jonas_%C3%85ngstr%C3%B6m) memorial medal. The academy has long authorized only Uppsala University to use their medal for the Ångström's Prize (*Ångströms premium*), awarded yearly by Uppsala professors to physics students. Mr. Ångström stated in May 2000 that although his award to Hoagland was a mistake, he acted with good faith and with good intentions.[[3]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-rich-ang-3)[[21]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-cnndebunk-25)[[22]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-26)[[23]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-credentials-27)

**Claims by Hoagland**

Hoagland has proposed a form of [physics](https://en.wikipedia.org/wiki/Physics) he calls "hyperdimensional physics",[[24]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-physicslab-28)[[25]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-HoagWilcock-29) which he claims represents a more complete implementation of [James Clerk Maxwell](https://en.wikipedia.org/wiki/James_Clerk_Maxwell)'s original 20 [quaternion](https://en.wikipedia.org/wiki/Quaternion) equations,[[26]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-BeardenMax-30) instead of the original [Maxwell's equations](https://en.wikipedia.org/wiki/Maxwell%27s_equations) as amended by [Oliver Heaviside](https://en.wikipedia.org/wiki/Oliver_Heaviside) commonly taught today.[[27]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-31) These ideas are rejected by the mainstream physics community as unfounded.[[28]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-quantumleaps-32)[[29]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-33)[[30]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-34)[[31]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-35)[[32]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-36)

Hoagland claims the "[Face on Mars](https://en.wikipedia.org/wiki/Cydonia_%28region_of_Mars%29)" is part of a city built on [Cydonia Planitia](https://en.wikipedia.org/wiki/Cydonia_Planitia) consisting of very large [pyramids](https://en.wikipedia.org/wiki/Pyramids) and mounds arranged in a geometric pattern.[[33]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-robbins-face1-37) To Hoagland, this is evidence that an advanced civilization might once have existed on Mars.[[33]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-robbins-face1-37) Since it was originally first imaged, the "face" has been near-universally accepted as an [optical illusion](https://en.wikipedia.org/wiki/Optical_illusion),[[11]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-greenberp-12) an example of the psychological phenomenon of [pareidolia](https://en.wikipedia.org/wiki/Pareidolia).[[28]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-quantumleaps-32)[[34]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-cnnface-38)[[35]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-39) Similar optical illusions can be found in the geology of [Earth](https://en.wikipedia.org/wiki/Earth);[[36]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-40) examples include the [Old Man of the Mountain](https://en.wikipedia.org/wiki/Old_Man_of_the_Mountain), the [Pedra da Gávea](https://en.wikipedia.org/wiki/Pedra_da_G%C3%A1vea), and [Stac Levenish](https://en.wikipedia.org/wiki/Stac_Levenish).[[37]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-41)

Although the [Pioneer 10 plaque](https://en.wikipedia.org/wiki/Pioneer_plaque) was designed entirely by [Carl Sagan](https://en.wikipedia.org/wiki/Carl_Sagan), [Linda Salzman Sagan](https://en.wikipedia.org/wiki/Linda_Salzman_Sagan), and [Frank Drake](https://en.wikipedia.org/wiki/Frank_Drake),[[38]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-Posner-42) Hoagland has inaccurately asserted that he co-created the plaque with [Eric Burgess](https://en.wikipedia.org/wiki/Eric_Burgess).[[39]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-43)

**Responses by scientists**

Many scientists have responded to Hoagland's claims and assertions. Professional astronomer [Phil Plait](https://en.wikipedia.org/wiki/Phil_Plait) described Hoagland as a [pseudoscientist](https://en.wikipedia.org/wiki/Pseudoscientist) and his claims as ridiculous.[[10]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-nonsense-11) Plait has also criticized Hoagland for having no university degree.[[21]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-cnndebunk-25) Prof. Ralph Greenberg asserted that the logic of Hoagland's deductions from the geometry of [Cydonia Mensae](https://en.wikipedia.org/wiki/Cydonia_Mensae) is flawed[[11]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-greenberp-12) and says that he is not a trained scientist in any sense. The claim that the crashing of the *Galileo* orbiter into Jupiter caused a "mysterious black spot" on the planet has since been disputed by both NASA and Plait. There is photographic evidence that a similar "black spot" was present in imagery of Jupiter taken in 1998. A second image referenced by Plait shows a dark ring which looks similar to the spot Hoagland cited.[[40]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-44) In 1995, [Malin Space Science Systems](https://en.wikipedia.org/wiki/Malin_Space_Science_Systems), NASA prime contractor for planetary imaging, published a paper critiquing claims that the "city" at Cydonia is artificial, the claimed mathematical relationships, and — very specifically — denying any claims about concealing questionable data from the public.[[41]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-45)

In October 1997, Hoagland received the [Ig Nobel Prize](https://en.wikipedia.org/wiki/Ig_Nobel_Prize) for Astronomy "for identifying artificial features on the moon and on Mars, including a human face on Mars and ten-mile high buildings on the far side of the moon." The prize is a parody award given for outlandish or "trivial" contributions to science.[[4]](https://en.wikipedia.org/wiki/Richard_C._Hoagland#cite_note-ignobel-5)

**Publications**

**Books**

* Hoagland, Richard C. (2002). *The Monuments of Mars: A City on the Edge of Forever* (5th ed.). Berkeley: Frog, Ltd. [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-1-58394-054-9](https://en.wikipedia.org/wiki/Special%3ABookSources/978-1-58394-054-9).
* Hoagland, Richard C.; Bara, Mike (2009). *Dark Mission: The Secret History of NASA, Revised and Expanded Edition*. Port Townsend: Feral House. [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-1-932595-48-2](https://en.wikipedia.org/wiki/Special%3ABookSources/978-1-932595-48-2).
* Hoagland, Richard C. (2015). Grossinger, Richard, ed. *New Horizon ... for a Lost Horizon, chapter in : Pluto: New Horizons for a Lost Horizon*. North Atlantic Books. p. 312. [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-1583948972](https://en.wikipedia.org/wiki/Special%3ABookSources/978-1583948972).

**Contributions, introductions, forewords**

* Hoagland, Richard C.; [Bova, Ben](https://en.wikipedia.org/wiki/Ben_Bova) (May 1977). "The origin of the solar system". In Bova, Ben; Bell, Trudy E. *Closeup: new worlds*. Chapter by Richard C. Hoagland and Ben Bova. New York: [St. Martin's Press](https://en.wikipedia.org/wiki/St._Martin%27s_Press). [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-0-312-14490-6](https://en.wikipedia.org/wiki/Special%3ABookSources/978-0-312-14490-6).
* Haas, George J.; Saunders, William R. (2005). *The Cydonia Codex: Reflections from Mars*. Forewords by Dr. Mark J. Carlotto and Richard C. Hoagland. [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-1-58394-121-8](https://en.wikipedia.org/wiki/Special%3ABookSources/978-1-58394-121-8).
* NASA (1972). "The Moon". In Hoagland, Richard C. *NASA Apollo Spacecraft Lunar Excursion Module News Reference*. Chapter by Richard C. Hoagland. Periscope Film LLC (published September 2011). [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-1-937684-98-3](https://en.wikipedia.org/wiki/Special%3ABookSources/978-1-937684-98-3).

**Videos**

* Hoagland, Richard C. (Author (with [NASA Lewis Research Center](https://en.wikipedia.org/wiki/Glenn_Research_Center))) (1990). *Monuments of Mars: City on the Edge of Forever* (VHS tape). Cleveland, OH: NASA Lewis Research Center. [OCLC](https://en.wikipedia.org/wiki/OCLC) [23350482](https://www.worldcat.org/oclc/23350482).
* Hoagland, Richard C. (Executive Producer, Writer (with Geline, Robert J.)) (1992). *The Monuments of Mars: A Terrestrial Connection* (VHS tape). New York: BC Video Inc. [OCLC](https://en.wikipedia.org/wiki/OCLC) [41520112](https://www.worldcat.org/oclc/41520112).
* Hoagland, Richard C. (1996). *Hoagland's Mars, Vol. 1, The NASA-Cydonia Briefings* (VHS tape). Venice, CA: UFO Central Home Video. [OCLC](https://en.wikipedia.org/wiki/OCLC) [41559991](https://www.worldcat.org/oclc/41559991). Short version, revised and updated
* Hoagland, Richard C. (Disk 1: "The Gods of Cydonia: The Case for Ancient Artificial Structures in the Solar System") (2005). *God, Man and ET: The Question of Other Worlds in Science, Theology, and Mythology* (DVD). Venice, CA: Knowledge 2020 Media. [OCLC](https://en.wikipedia.org/wiki/OCLC) [58528205](https://www.worldcat.org/oclc/58528205).

**Notes**

 A private award presented to Hoagland by Lars-Jonas Ångström in Washington, D.C., August 1993; not to be confused with the long-established Ångström's Prize (*Ångströms premium*), awarded yearly by professors at [Uppsala University](https://en.wikipedia.org/wiki/Uppsala_University) to physics students.

  [The Children's Museum](https://en.wikipedia.org/wiki/The_Children%27s_Museum%2C_Connecticut), formerly The Science Center of Connecticut, is home to the [Gengras Planetarium](http://www.thechildrensmuseumct.org/planetarium/about-the-planetarium/).

  The WTIC radio program, *A Night of Encounter* (submission title), was submitted by WTIC President Paul W. Morency as an entry for a [Peabody Award](https://en.wikipedia.org/wiki/Peabody_Award), but it did not win. Contrary to what Hoagland states on his [biography page](http://www.enterprisemission.com/hoagland.html), the program was not nominated for the award since there is no intermediate level of competition. All winners are chosen directly from the entire field of accepted entries. The entry form, along with an archival 7" 45 rpm [gramophone](https://en.wikipedia.org/wiki/Gramophone_record) audio recording of the program, are currently being held at the Hargrett Rare Book and Manuscript Library at the [University of Georgia](https://en.wikipedia.org/wiki/University_of_Georgia) Libraries in [Athens, Georgia](https://en.wikipedia.org/wiki/Athens%2C_Georgia). WTIC announcer Dick Bertel hosted the program and interviewed Hoagland. The program also featured a conversation between Hoagland and astronomer Dr. [Robert S. Richardson](https://en.wikipedia.org/wiki/Robert_S._Richardson), associate director of the [Griffith Observatory](https://en.wikipedia.org/wiki/Griffith_Observatory).

* 1.  In ["Why 'Enterprise?'"](http://www.enterprisemission.com/enterpri.html), *The Enterprise Mission* credits the 1976 Space Shuttle letter-writing campaign as being "organized by Richard C. Hoagland and a small group of associates, including White House consultant, [Jerome Glenn](https://en.wikipedia.org/wiki/Jerome_C._Glenn)." Glenn is the co-founder and Director of The Millennium Project, a think tank. His [résumé](http://www.millennium-project.org/millennium/resume/jglenn.html) posted on his organization's website mentions that he was "instrumental in naming the first Space Shuttle the Enterprise."

**References**

 ["Mars Pathfinder Conspiracy"](http://archive.org/details/1997-06-17CoastToCoastAm---MarsPathfinder). [*Coast to Coast AM*](https://en.wikipedia.org/wiki/Coast_to_Coast_AM). June 17, 1997. Retrieved November 16, 2012. [Art Bell](https://en.wikipedia.org/wiki/Art_Bell) confirms that Hoagland's middle name is Charles.

  [Richard C. Hoagland](https://www.facebook.com/RichardC.Hoagland) on [Facebook](https://en.wikipedia.org/wiki/Facebook)

  ["rich-ang.jpg"](http://www.enterprisemission.com/images/rich-ang.jpg). The Enterprise Mission. Retrieved April 18, 2013. Image of an [Anders Jonas Ångström](https://en.wikipedia.org/wiki/Anders_Jonas_%C3%85ngstr%C3%B6m) memorial medal of the [Royal Swedish Academy of Sciences](https://en.wikipedia.org/wiki/Royal_Swedish_Academy_of_Sciences) and Lars-Jonas Ångström with Richard C. Hoagland in Washington, D.C.

  ["The 1997 Ig Nobel Prize Winners"](http://improbable.com/ig/ig-pastwinners.html#ig1997). Improbable Research, Inc. Retrieved April 18, 2013.

  Grossinger, Richard, ed. (1986). "The 'Face' on Mars". *Planetary Mysteries: Megaliths, Glaciers, the Face on Mars, and Aboriginal Dreamtime*. Berkeley: [North Atlantic Books](https://en.wikipedia.org/wiki/North_Atlantic_Books). [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-0-938190-90-5](https://en.wikipedia.org/wiki/Special%3ABookSources/978-0-938190-90-5).

  Hoagland, Richard (December 2007). [*Dark Mission: Richard Hoagland*](http://projectcamelot.org/richard_hoagland.html). Interview with Kerry Cassidy. Retrieved November 16, 2012.

  ["NASA Cover-Ups Continue"](http://web.archive.org/web/20071103004632/http%3A/press.org/calendar/calendarday.cfm?whatday=30&&whatyear=2007&&whatmonth=10). [National Press Club](https://en.wikipedia.org/wiki/National_Press_Club_%28United_States%29). The news conference was sponsored by the Enterprise Mission. October 30, 2007. Archived from [the original](http://press.org/calendar/calendarday.cfm?whatday=30&&whatyear=2007&&whatmonth=10) on November 3, 2007. Retrieved November 16, 2012. Two [press releases](https://en.wikipedia.org/wiki/Press_release) were issued by *The Enterprise Mission* website announcing the [30 October 2007 National Press Club new conference](http://www.enterprisemission.com/NPC2007.htm), dated October 22, 2007 and October 30, 2007. Video excerpt: ["Richard C. Hoagland Press Conference - October 30, 2007"](https://www.youtube.com/watch?v=bzoSi518QRs). YouTube. Uploaded by user aparfrey on February 16, 2009.

  Teague, Bill. ["Media Coverage of Richard Hoagland's Press Conference of March 21st *(-- From Various Sources -- )*"](http://www.v-j-enterprises.com/hoagnews.html). V J Enterprises. Retrieved November 16, 2012. Information concerning the National Press Club press conference held in Washington, D.C., March 21, 1996.

  Oberg, James (January 21, 2008). ["The dark side of space disaster theories"](http://www.thespacereview.com/article/1043/1). [*The Space Review*](https://en.wikipedia.org/wiki/The_Space_Review). Retrieved November 16, 2012.

  [Plait, Phil](https://en.wikipedia.org/wiki/Phil_Plait) (2008). ["Richard Hoagland's Nonsense"](http://www.badastronomy.com/bad/misc/hoagland/index.html). *Bad Astronomy* (Blog). badastronomy.com. Retrieved November 16, 2012.

  Ralph Greenberg. ["The D&M Pyramid On Mars And Richard Hoagland'S Theories About Cydonia"](https://web.archive.org/web/20140719174130/http%3A/www.math.washington.edu/~greenber/DMPyramid.html). Math.washington.edu. Archived from [the original](http://www.math.washington.edu/~greenber/DMPyramid.html) on 2014-07-19. Retrieved 2014-07-30.

  Library of Congress. Copyright Office (July–December 1968). [*Dramas and Works Prepared for Oral Delivery*](http://archive.org/stream/catalogofcop196832234libr#page/108/mode/1up). Catalog of Copyright Entries: *Third Series*. Volume 22, Parts 3–4, Number 2. Washington, D.C.: U.S. Government Printing Office. p. 108. 0 026 718 105 6. Retrieved November 9, 2012.

  Sanderson, Richard (August 10, 2000). ["Springfield's Link to the Red Planet"](http://web.archive.org/web/20021027081148/http%3A/www.springfieldjournal.com/archives/8-10-2000/celestialwanderings.html). *Springfield Journal*. Vol. 26 No. 3. Archived from [the original](http://www.springfieldjournal.com/archives/8-10-2000/celestialwanderings.html) on October 27, 2002. Retrieved November 16, 2012.

  ["The Night of the Encounter"](http://www.goldenage-wtic.org/encounter.html). Goldenage-WTIC.org. Retrieved November 17, 2012. Page includes a half-hour of excerpts from the 1965 WTIC radio program in the MP3 format.

  Deming, Joan; Slovinac, Patricia et al. (July 2008). ["NASA-wide Survey and Evaluation of Historic Facilities in the Context of the U.S. Space Shuttle Program: Roll-Up Report"](http://www.hq.nasa.gov/oia/nasaonly/itransition/Shuttle_Historic_Facilities_Roll-up_Report.pdf) (PDF). Washington, D.C.: Prepared by [Archaeological Consultants, Inc.](http://www.aci-crm.com/) for NASA. p. 36. Retrieved November 17, 2012. Report cites Heppenheimer, Tom A. (2002). *Development of the Space Shuttle, 1972–1981*. History of the Space Shuttle. Vol. 2. Washington, D.C.: Smithsonian Institution Press. pp. 100–101. [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-1-58834-009-2](https://en.wikipedia.org/wiki/Special%3ABookSources/978-1-58834-009-2).

  ["November 18, 2007: Paperback Nonfiction"](http://www.nytimes.com/2007/11/18/books/bestseller/1118bestpapernonfiction.html?_r=1&oref=slogin&pagewanted=print). *The New York Times*. Retrieved November 22, 2012. Rankings reflect sales, for the week ended Nov. 3 ...

  Grossinger, Richard 2010. [The North Atlantic Books List 2: Categories.](http://www.richardgrossinger.com/2010/03/the-north-atlantic-books-list-2-categories/) March 11, 2010.

  ["The Enterprise Mission"](http://www.enterprisemission.com/) (Official website). The Enterprise Mission. Retrieved April 10, 2013.

  Hoagland, Richard C.; Bara, Mike (2007). *Dark Mission: The Secret History of NASA*. Port Townsend: [Feral House](https://en.wikipedia.org/wiki/Feral_House). p. I. [ISBN](https://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-1-932595-26-0](https://en.wikipedia.org/wiki/Special%3ABookSources/978-1-932595-26-0).; *Ibid*., 2009, p. 57.

  ["Richard C. Hoagland - Guests - Coast to Coast AM"](http://www.coasttocoastam.com/guest/hoagland-richard-c/5605). *Coast to Coast AM*. Retrieved April 11, 2013.

  Robert Roy Britt SPACE.com (2004-03-18). ["Scientist attacks alien claims on Mars - Mar 18, 2004"](http://www.cnn.com/2004/TECH/space/03/17/alien.debunk/index.html?eref=sitesearch). CNN.com. Retrieved 2014-07-30.

  ["Richard C. Hoagland: Biographical Information"](http://www.enterprisemission.com/hoagland.html). The Enterprise Mission. Retrieved April 19, 2013.

  [Plait, Phil](https://en.wikipedia.org/wiki/Phil_Plait) (2008). ["Richard Hoagland's Credentials"](http://www.badastronomy.com/bad/misc/hoagland/credentials.html). *Bad Astronomy* (Blog). badastronomy.com. Retrieved April 19, 2013.

  ["The Enterprise Mission - Physics Lab"](http://enterprisemission.com/physics.html). The Enterprise Mission. Retrieved April 11, 2013. An online repository of "hyperdimensional physics"-related papers.

  Hoagland, Richard C.; Wilcock, David (May 15, 2004). [*Hoagland & Wilcock on Coast to Coast*](http://www.enterprisemission.com/_articles/05-22-2004_Bell_Interviews_123/Bell-InterviewPartOne.htm). Interview with Art Bell. Coast to Coast AM. Retrieved December 6, 2007. Transcript courtesy of The Enterprise Mission.

  Bearden, T. E. ["Maxwell's Quaternion Equations"](http://www.rexresearch.com/maxwell.htm). Rex Research. Retrieved April 11, 2013.

  See [Maxwell's equations § Conventional formulation in SI units](https://en.wikipedia.org/wiki/Maxwell%27s_equations#Conventional_formulation_in_SI_units) (especially details on [Lorentz–Heaviside units](https://en.wikipedia.org/wiki/Lorentz%E2%80%93Heaviside_units))

  Charles M. Wynn, Arthur W. Wiggins, *Quantum Leaps in the Wrong Direction: Where Real Science Ends... and Pseudoscience begins* (Joseph Henry Press, 2001). [ISBN 0-309-17135-0](https://en.wikipedia.org/wiki/Special%3ABookSources/0309171350)

  ["hyperdimensional physics | Exposing PseudoAstronomy"](https://pseudoastro.wordpress.com/tag/hyperdimensional-physics/). Pseudoastro.wordpress.com. Retrieved 2014-07-30.

  expat (2014-03-19). ["The Emoluments of Mars: Proposal for an experiment to test "hyperdimensional physics""](http://dorkmission.blogspot.com/2014/03/proposal-for-experiment-to-test.html). Dorkmission.blogspot.com. Retrieved 2014-07-30.

  Further proof of the misguided nature of Hoagland's "hyperdimensional physics" is the definitive failure of the WISE mission to find the large trans-Neptunian solar system bodies that Hoagland claimed existed through his theories. URL: <http://www.scientificamerican.com/podcast/episode/no-planet-x/>

  Chu-Carroll, Mark (October 31, 2010). ["Free Energy by Switching Cameras (Classic Repost)"](http://scientopia.org/blogs/goodmath/2010/10/31/free-energy-by-switching-cameras-classic-repost/). *Good Math, Bad Math* (Blog). Scientopia.org. Retrieved April 2013.

  ["Exposing PseudoAstronomy Podcast - Shownotes Episode 59"](http://podcast.sjrdesign.net/shownotes_059.php). Podcast.sjrdesign.net. Retrieved 2014-07-30.

  Britt, Robert Roy (March 18, 2004). ["Scientist attacks alien claims on Mars"](http://www.cnn.com/2004/TECH/space/03/17/alien.debunk/index.html). *CNN*. SPACE.com. Retrieved October 12, 2007.

  Normand Baillargeon, *A Short Course in Intellectual Self Defense: Find Your Inner Chomsky*, page 177 (Seven Stories Press, 2007). [ISBN 978-1-58322-765-7](https://en.wikipedia.org/wiki/Special%3ABookSources/9781583227657)

  [Dunning, Brian](https://en.wikipedia.org/wiki/Brian_Dunning_%28author%29) (April 22, 2008). ["Skeptoid #97: The Face on Mars Revealed"](http://skeptoid.com/episodes/4097). *Skeptoid* (Podcast). Skeptoid Media, Inc. Retrieved August 26, 2008.

  ["Badlands Guardian Geological Feature"](http://maps.google.com/maps?z=16&ll=50.010083,-110.113006&spn=0.009363,0.020084&t=k&iwloc=addr). [Google Maps](https://en.wikipedia.org/wiki/Google_Maps). Retrieved April 26, 2007.

  Posner, Gary P. (November–December 2000). ["The Face Behind the 'Face' on Mars: A Skeptical Look at Richard C. Hoagland"](http://www.gpposner.com/Hoagland.html). [*Skeptical Inquirer*](https://en.wikipedia.org/wiki/Skeptical_Inquirer) ([Amherst, New York](https://en.wikipedia.org/wiki/Amherst%2C_New_York): [Committee for Skeptical Inquiry](https://en.wikipedia.org/wiki/Committee_for_Skeptical_Inquiry)) **24** (6): 20–26. Retrieved April 17, 2013.

  Posner, Gary P. ["My Response to Bara/Hoagland Rebuttal"](http://www.gpposner.com/reply_Hoagland.html). Gary P. Posner. Retrieved April 17, 2013.

  ["PIA01496: Jovian Dark Spot"](http://photojournal.jpl.nasa.gov/catalog/PIA01496). NASA. Retrieved June 28, 2006.

* 1.  Malin, Michael C. (1995). ["Observations of the 'Face on Mars' and similar features by the Mars Global Surveyor Orbiter Camera"](http://www.msss.com/education/facepage/face_discussion.html). [Malin Space Science Systems](https://en.wikipedia.org/wiki/Malin_Space_Science_Systems). Retrieved April 18, 2013.

**External links**

* [Official website](http://www.enterprisemission.com)

**Hoagload biography sites**

* [Richard C. Hoagland - Guests - Coast to Coast AM](http://www.coasttocoastam.com/guest/hoagland-richard-c/5605) Richard C. Hoagland's biography and list of guest appearances on *Coast to Coast AM*.
* [Richard C. Hoagland](http://www.imdb.com/name/nm3019485/) at the [Internet Movie Database](https://en.wikipedia.org/wiki/Internet_Movie_Database)
* [Richard C. Hoagland](http://www.isfdb.org/cgi-bin/ea.cgi?21120) at the [Internet Speculative Fiction Database](https://en.wikipedia.org/wiki/Internet_Speculative_Fiction_Database)
* [Richard C. Hoagland](https://www.facebook.com/RichardC.Hoagland) on [Facebook](https://en.wikipedia.org/wiki/Facebook)

**Debunking websites**

* Oberg, James (January 21, 2008). ["The dark side of space disaster theories"](http://www.thespacereview.com/article/1043/1). *The Space Review*. Retrieved November 16, 2012.
* Plait, Phil (2008). ["Richard Hoagland's Nonsense"](http://www.badastronomy.com/bad/misc/hoagland/index.html). *Bad Astronomy* (Blog). badastronomy.com. Retrieved November 16, 2012.
* Dr. Ralph Greenberg, Professor of Mathematics (2004). ["Richard C. Hoagland Index"](https://web.archive.org/web/20131007150637/http%3A/www.math.washington.edu/~greenber/HoagIndex.html). Department of Mathematics, University of Washington. Archived from [the original](http://www.math.washington.edu/~greenber/DMPyramid.html) on 2013-10-07. Retrieved 2014-07-30.
* Posner, M.D., Gary P. (November 2000). ["The Face Behind the "Face" on Mars: A Skeptical Look at Richard C. Hoagland"](http://www.gpposner.com/Hoagland.html). *Skeptical Inquirer*.
* Exposing PseudoAstronomy Podcast
	+ [Ep 26: Richard C. Hoagland, Part 1 - 19.5°](http://podcast.sjrdesign.net/shownotes_026.php)
	+ [Ep 59: The Face on Mars, Part 1](http://podcast.sjrdesign.net/shownotes_059.php)
	+ [Ep 60: The Face on Mars, Part 2](http://podcast.sjrdesign.net/shownotes_060.php)
	+ [Ep 68: Expat in Hoaglandia: A Fantasia of NASA Conspiracies](http://podcast.sjrdesign.net/shownotes_068.php)
	+ [Ep 72: Solar System Mysteries "Solved" by PseudoScience, Part 1 - Iapetus](http://podcast.sjrdesign.net/shownotes_072.php)
	+ [Ep 79: Is the Movie "John Carter" a Leak by Those "In the Know?"](http://podcast.sjrdesign.net/shownotes_079.php)
	+ [Ep 82: How to Design a Hyperdimensional Physics Experiment](http://podcast.sjrdesign.net/shownotes_082.php) - Discusses Hoaglands claims about [torsion physics](https://en.wikipedia.org/w/index.php?title=Torsion_physics&action=edit&redlink=1) and how to go about testing them.
	+ [Ep 88: Is Phobos Hollow?](http://podcast.sjrdesign.net/shownotes_088.php) - Discussion of Richard Hoaglands 2010 claims that the [Martian](https://en.wikipedia.org/wiki/Mars) moon, [Phobos](https://en.wikipedia.org/wiki/Phobos_%28moon%29) is hollow.

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