

## **Space Spiritual Dimension**

**By Madhu Thangavelu**

**Editors' Introduction:** University of Southern California Professor, Madhu Thangavelu traces the history of spiritual people and events on Earth's societies and civilizations, then contemplates their continued impacts as humans explore and settle in Space. See our Editors' Notes at the end for how this presentation has motivated us, in Kepler Space Institute, to expand our future projects. *Bob Krone and Gordon Arthur*



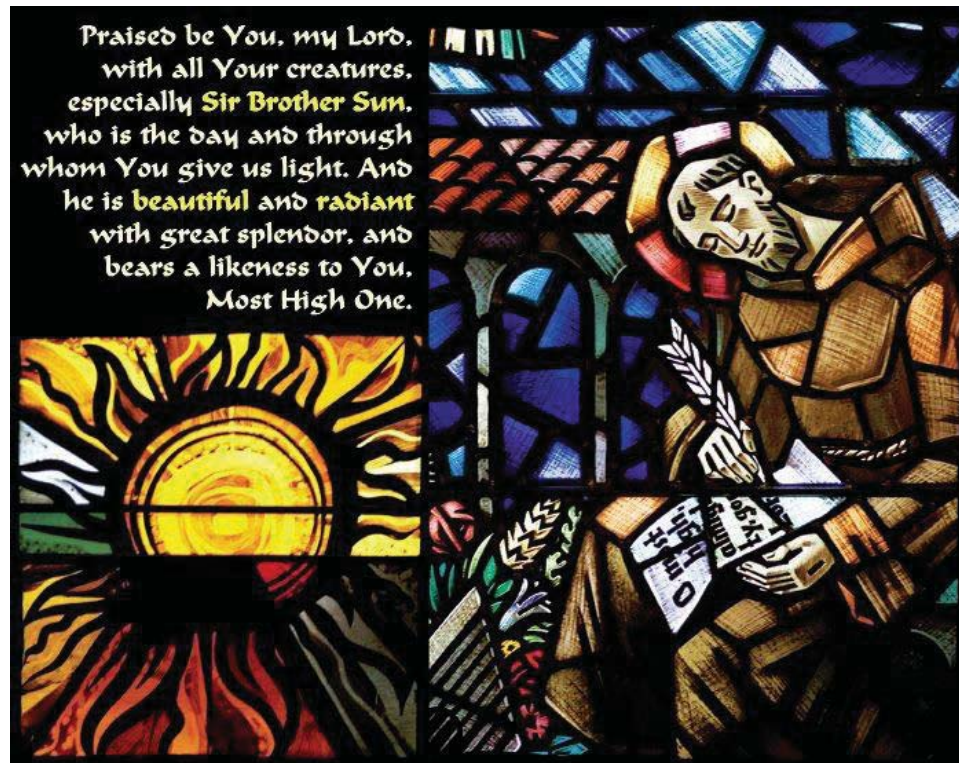
 **National Space Society**  
International Space Development Conference®  
*Find Your Spirit of Exploration & Discovery*  
Union Station Hotel, St. Louis, MO | May 25-29, 2017

## Science and Religion

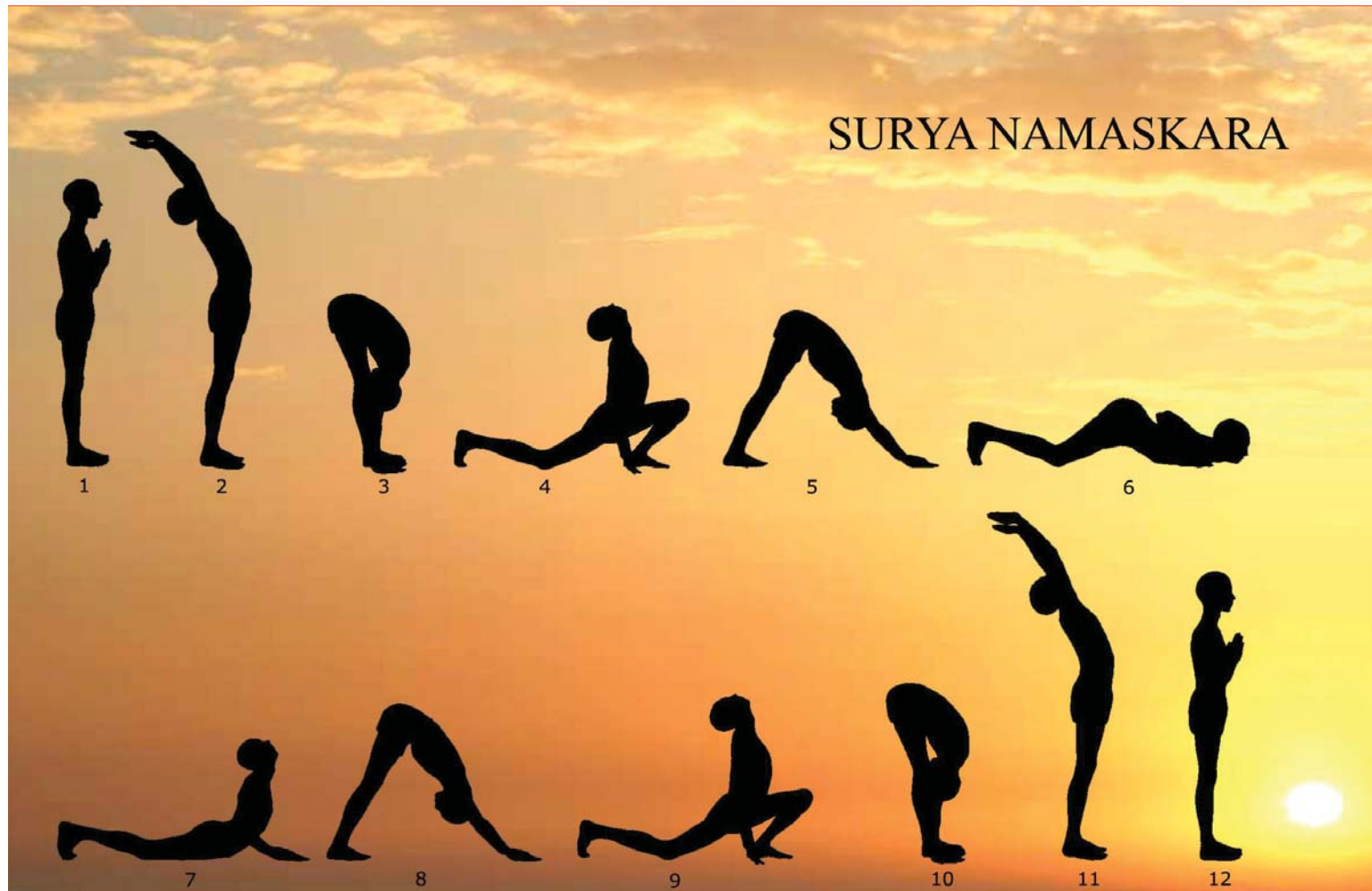
- Pope Benedict talks to ISS crew May 21, 2011
- [https://www.youtube.com/watch?v=81jAmb\\_e1pg](https://www.youtube.com/watch?v=81jAmb_e1pg)



# Francis of Assisi







# Galileo Affair

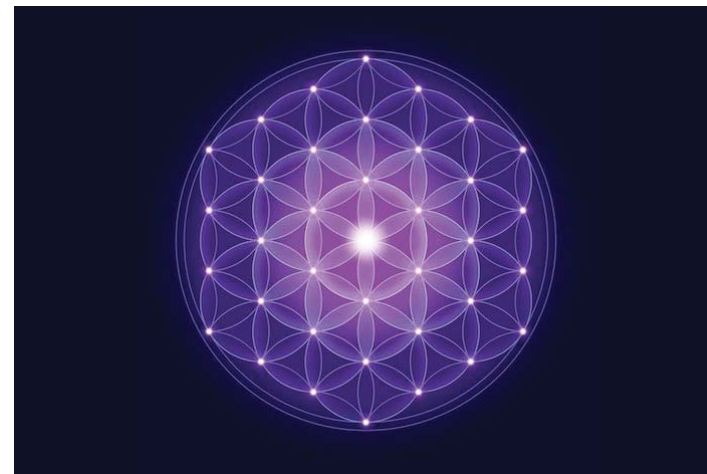
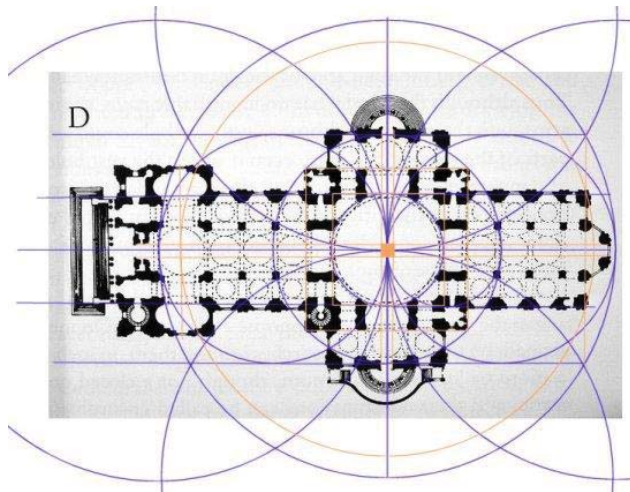
- 1610, 1633, 1642



# Spiritual Mathematics

## Sacred Geometry

- Temples, Cathedrals, Altars, Rituals
- Athenian, Arabic, Egyptian, Jewish,...
- Sankhya in Eastern Philosophy

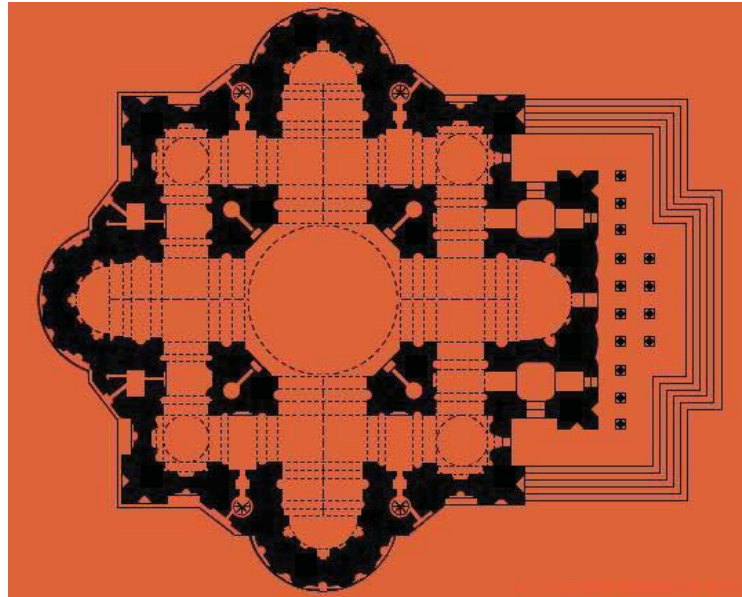
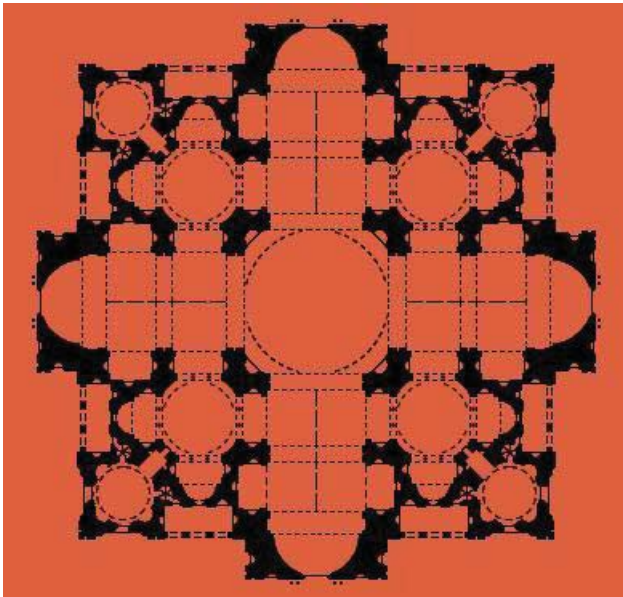








# St. Peter's Basilica Bramante - Michelangelo



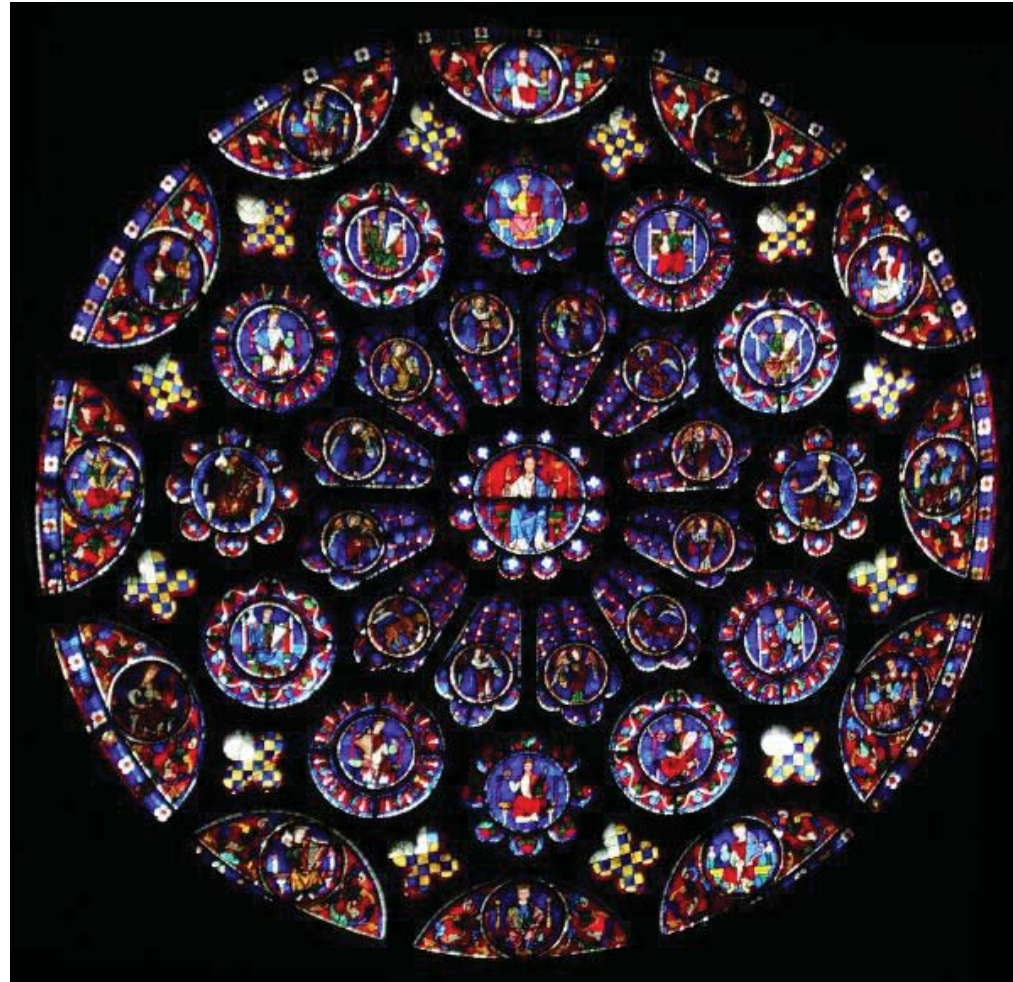
# Sun and Moon

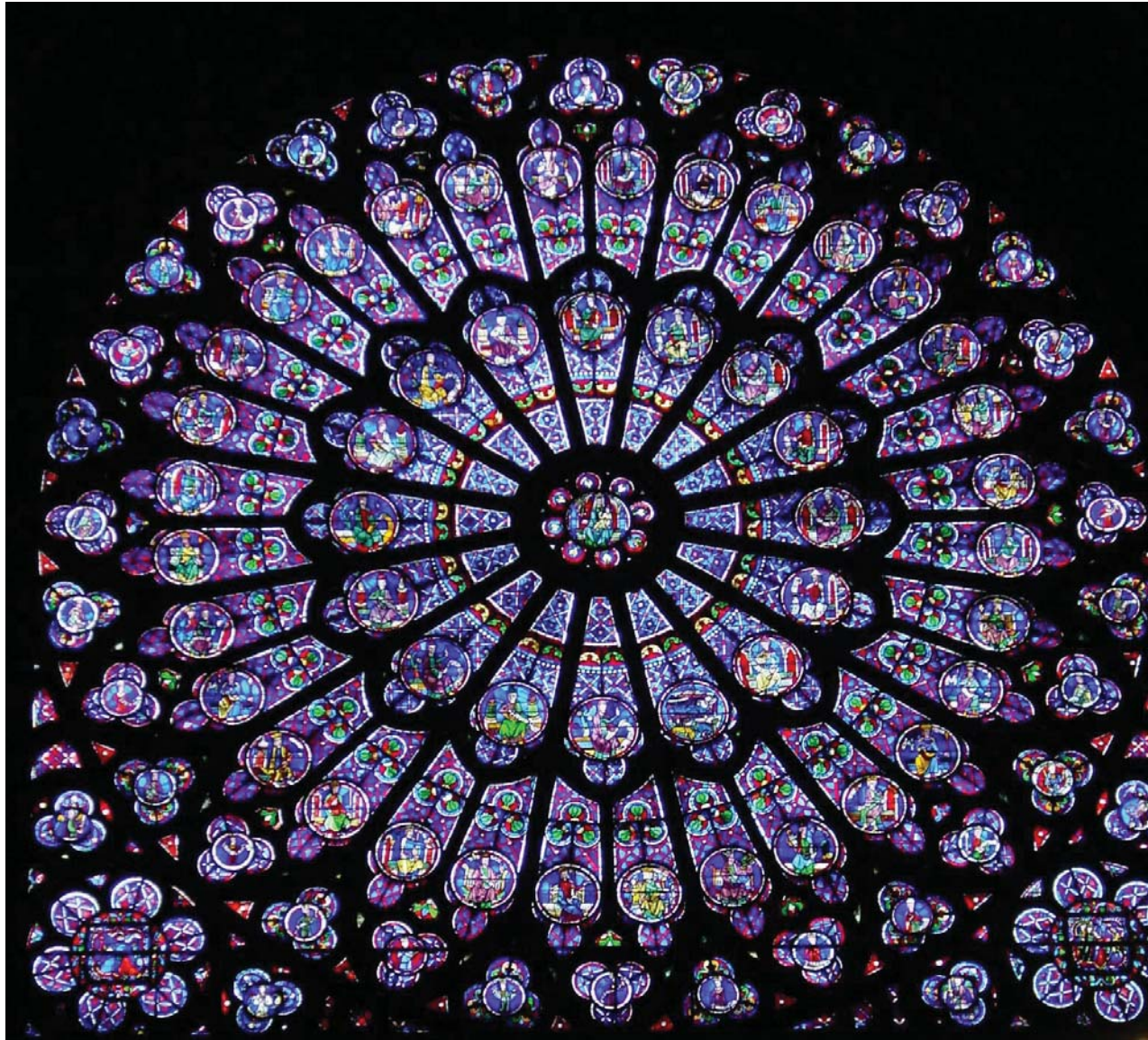


# Chartres















# Gerry Judah Cross @ St.Pauls





# Gerry Judah Cross



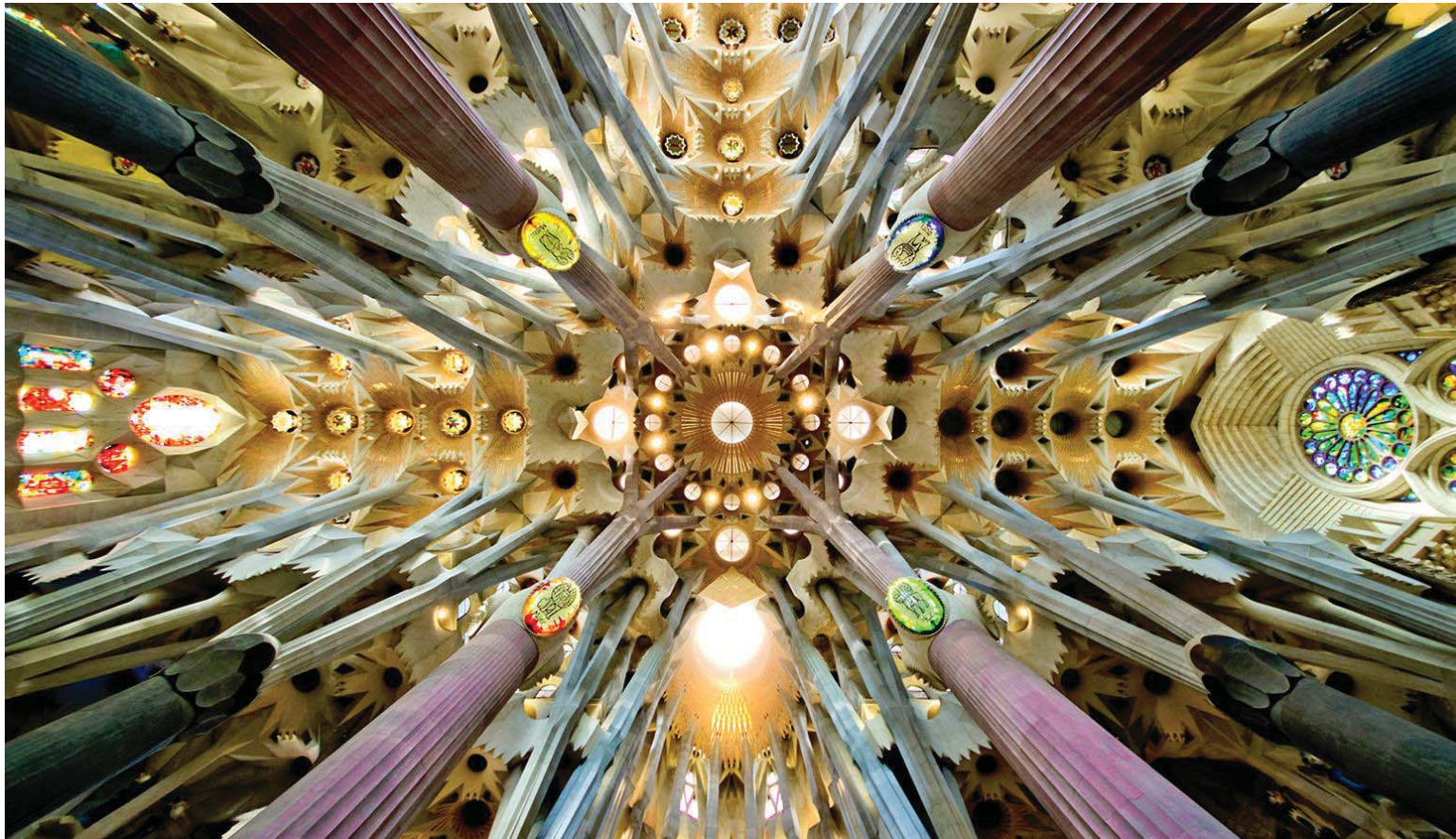


# Chartres



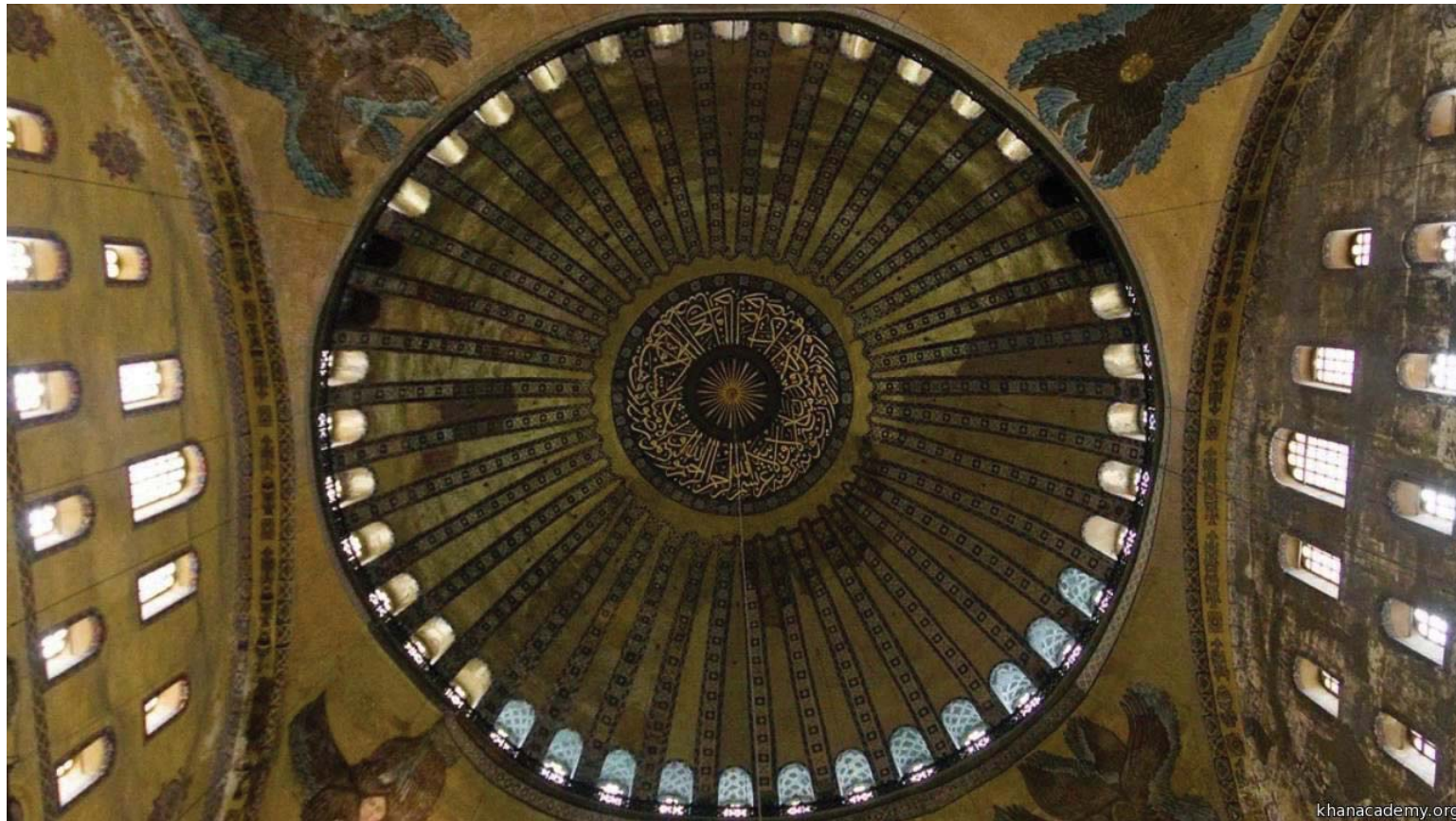


# Sagrada Familia





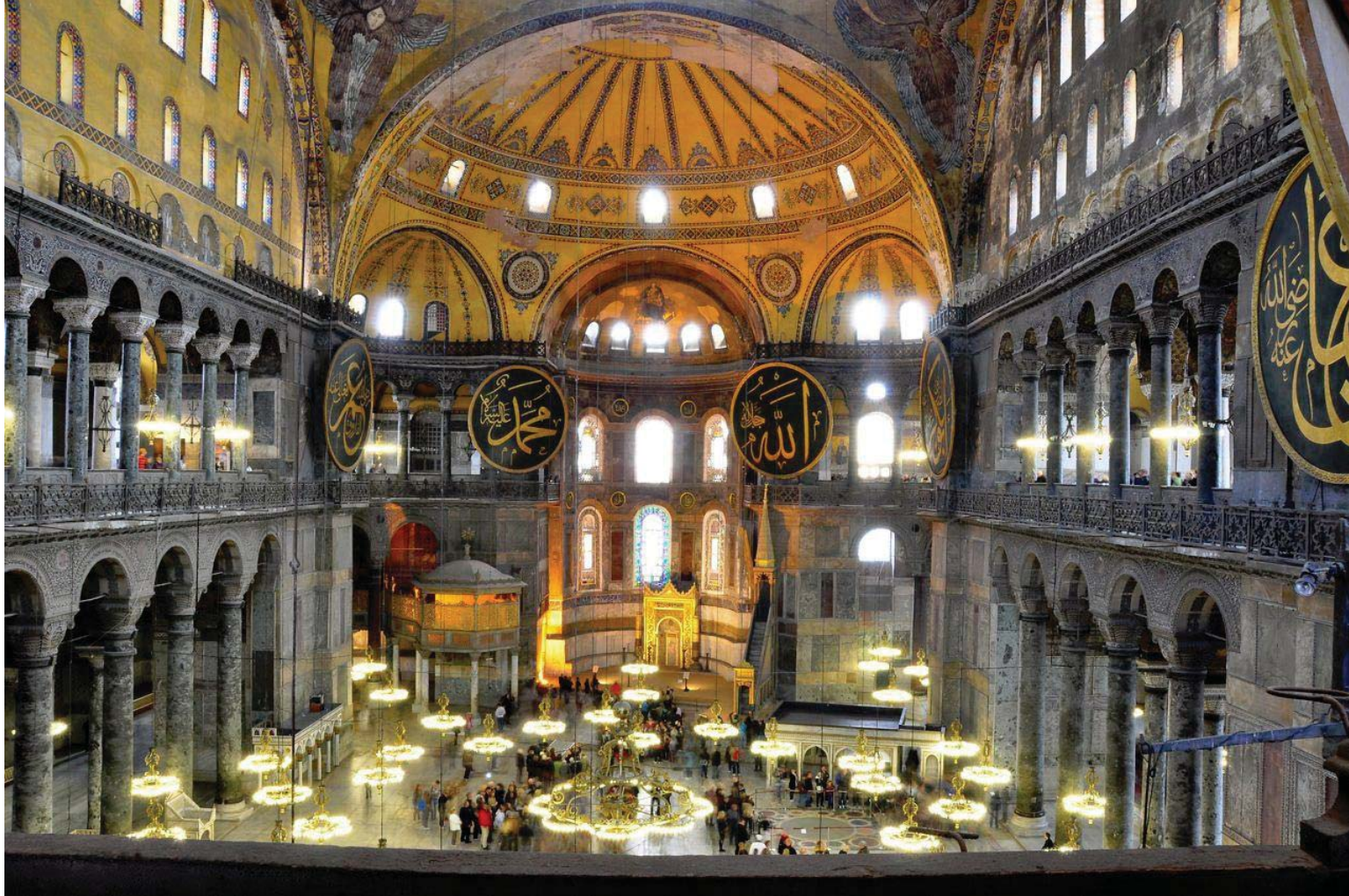
# Hagia Sophia













# Bahai Temple - New Delhi

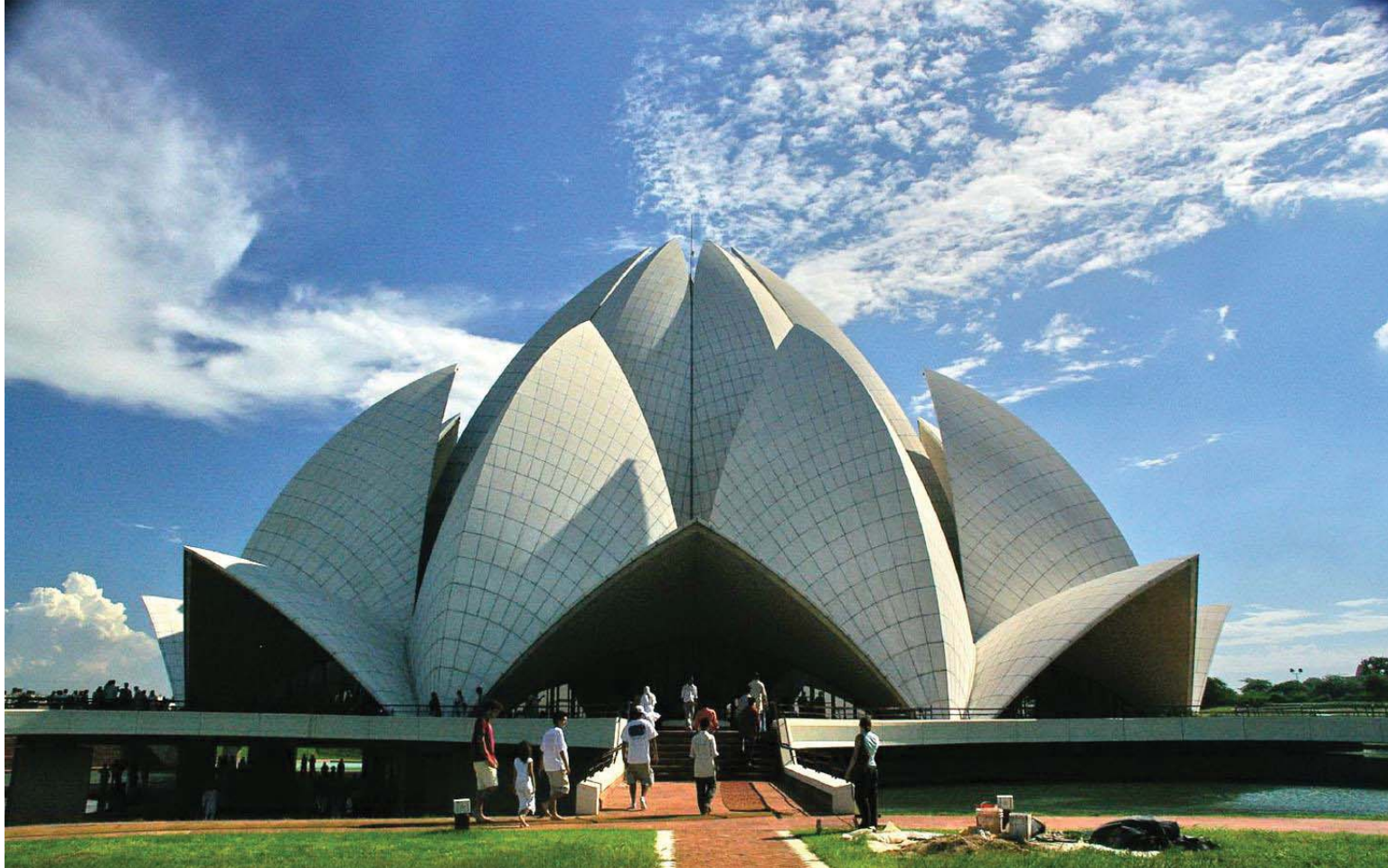




image source : [www.templefolks.com](http://www.templefolks.com)



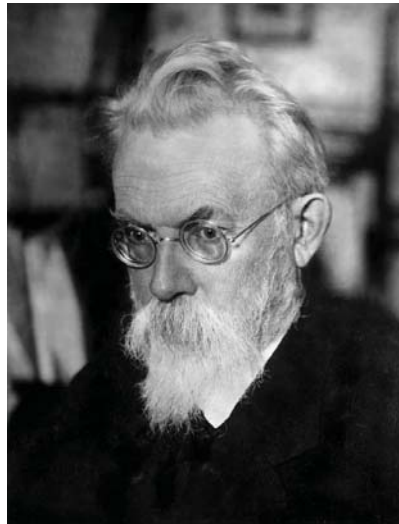
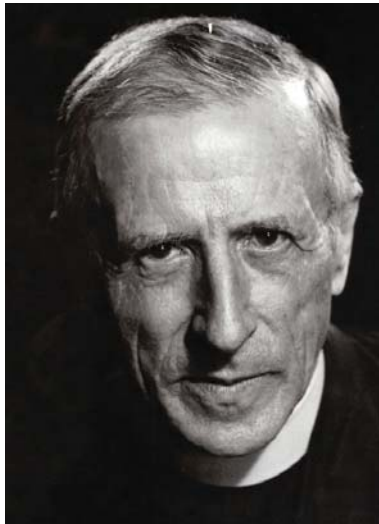




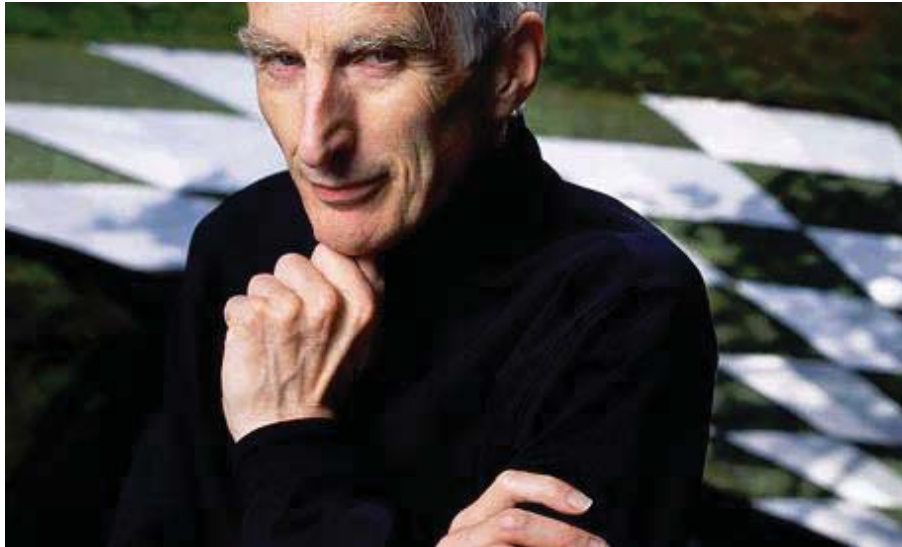


## H.G.Wells, de Chardin, Vernadsky

- Omega Point
- Noosphere
- World Brain



## Martin Rees – Templeton Prize Winner



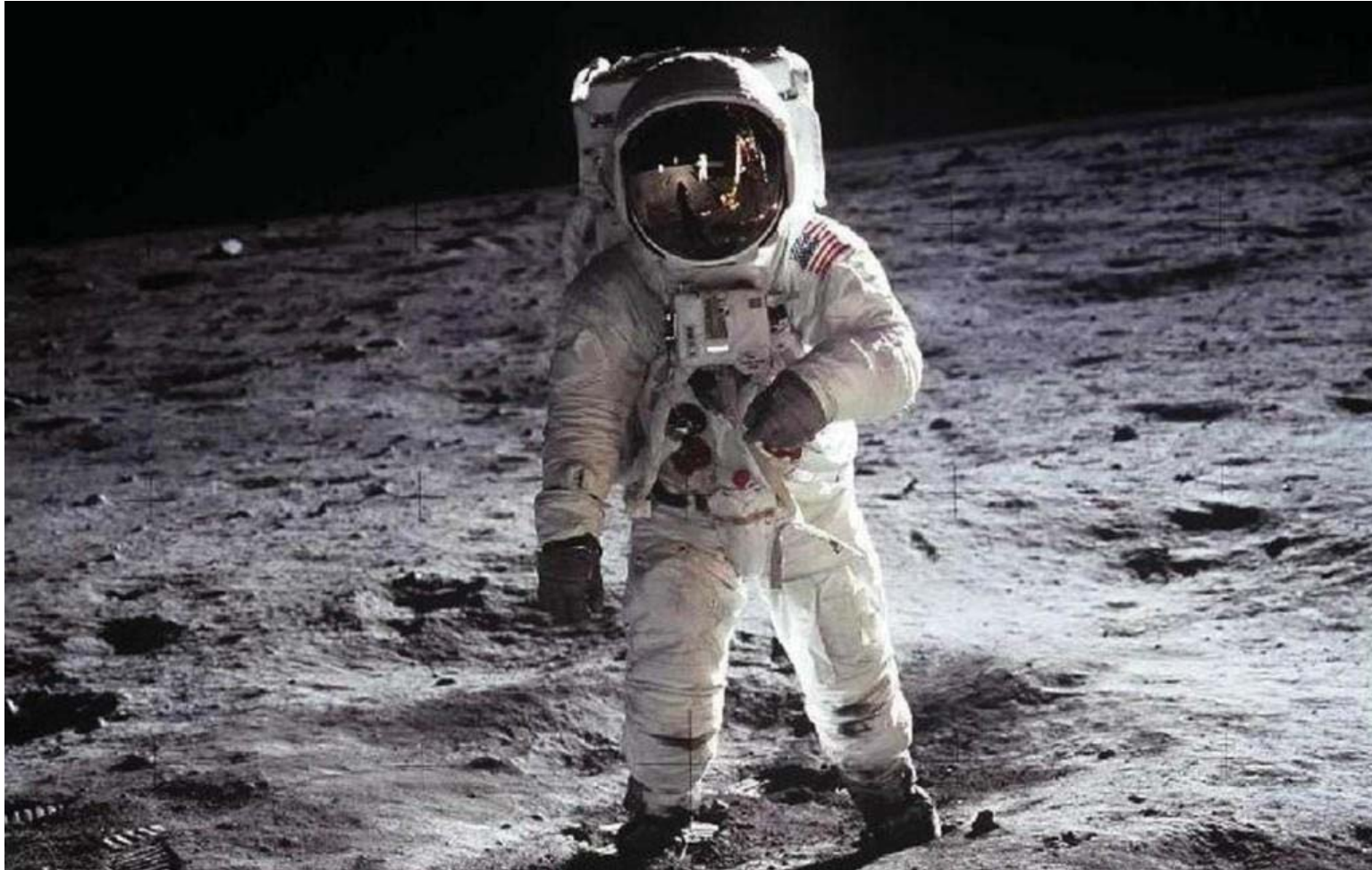
Ian Sample : What do you gain from churchgoing, considering you don't subscribe to religious dogma or believe in God?

Martin Rees: Well, I think it's a common traditional ritual which one participates in as part of one's culture.

<https://www.theguardian.com/science/2011/apr/06/astronomer-royal-martin-rees-interview>



# Buzz Aldrin

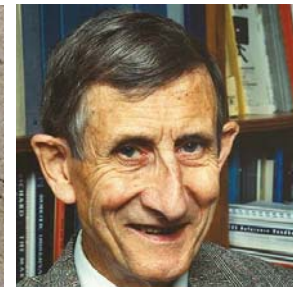
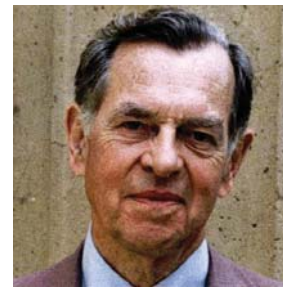


# New Space Paradigms

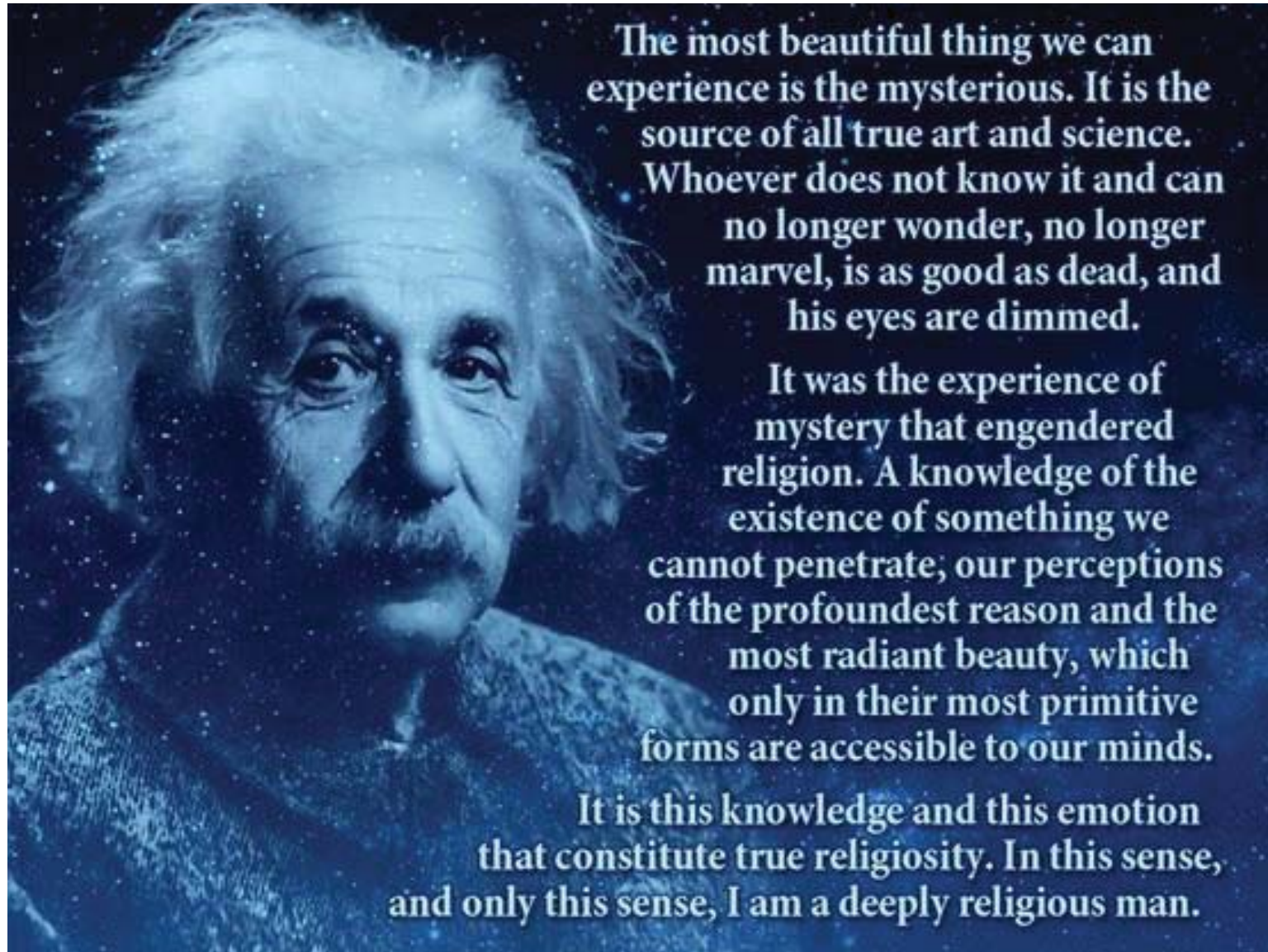
- Musk – Settle other planets – human survival insurance
- Bezos – Protect and make Earth beautiful
- Marburger III – Economic sphere of influence
- Campbell – Return of the Hero
- Dyson – Beautify our Universe
- Frank White – Overview Effect



Dr. John H. Marburger III (1941–2011)







The most beautiful thing we can experience is the mysterious. It is the source of all true art and science. Whoever does not know it and can no longer wonder, no longer marvel, is as good as dead, and his eyes are dimmed.

It was the experience of mystery that engendered religion. A knowledge of the existence of something we cannot penetrate; our perceptions of the profoundest reason and the most radiant beauty, which only in their most primitive forms are accessible to our minds.

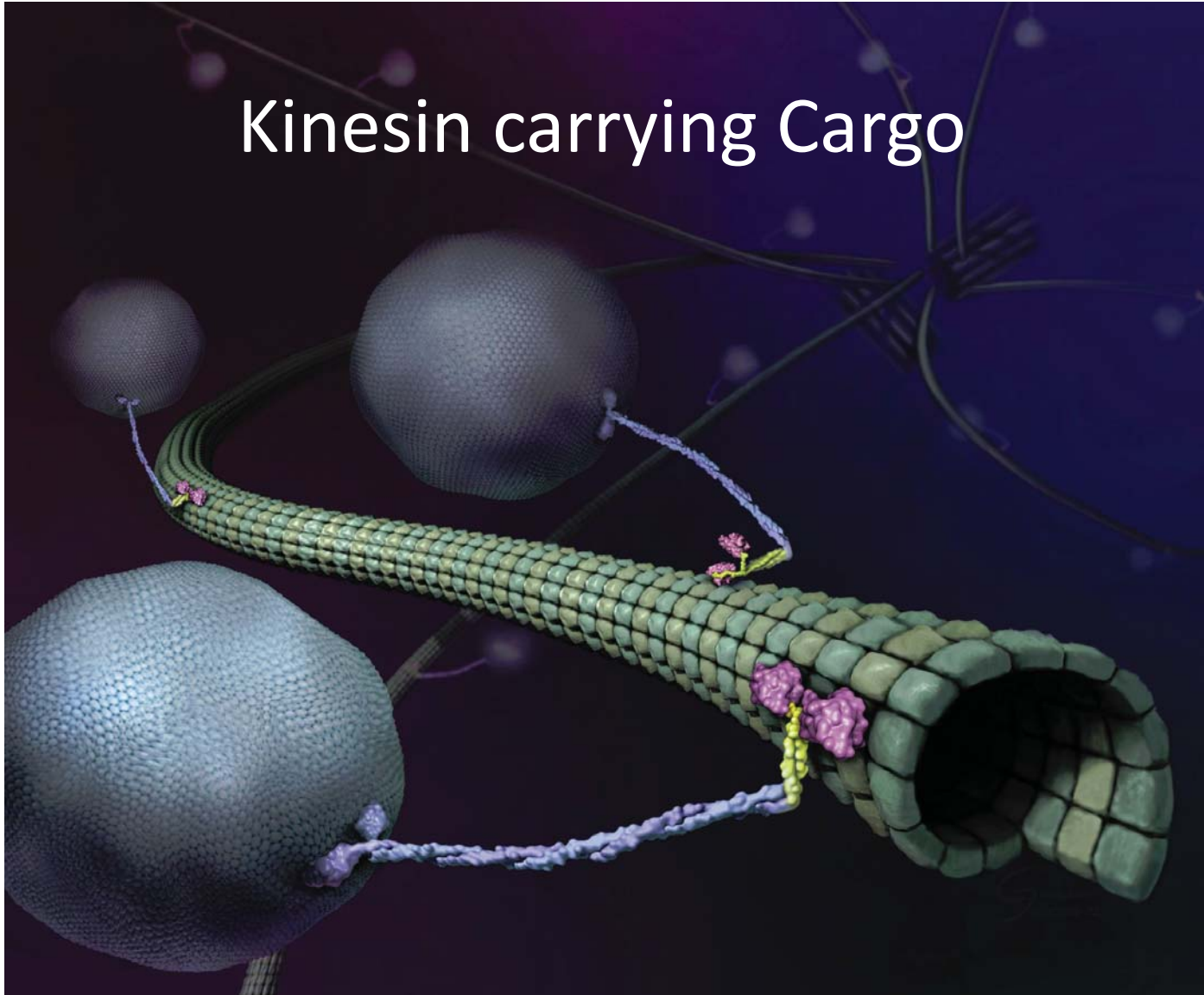
It is this knowledge and this emotion that constitute true religiosity. In this sense, and only this sense, I am a deeply religious man.

## Leo Tolstoy on Mind – A Confession 1882

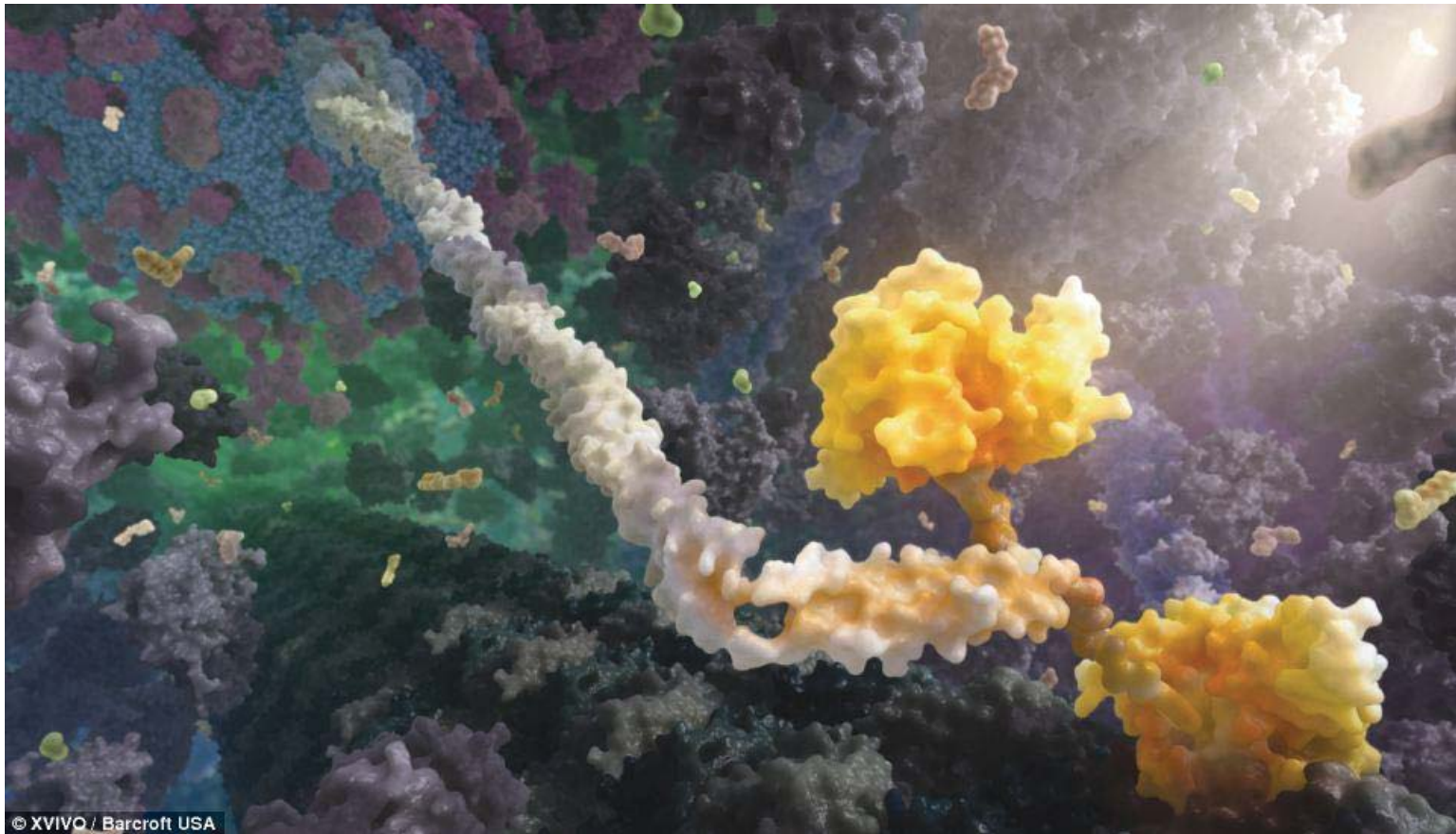
- To this one question, variously expressed, I sought an answer in science. And I found that in relation to that question all human knowledge is divided as it were into two opposite hemispheres at the ends of which are two poles: the one a negative and the other a positive; but that neither at the one nor the other pole is there an answer to life's questions. The one series of sciences seems not to recognize the question, but replies clearly and exactly to its own independent questions: that is the series of experimental sciences, and at the extreme end of it stands **mathematics**. The other series of sciences recognizes the question, but does not answer it; that is the series of abstract sciences, and at the extreme end of it stands **metaphysics**.
- “See that you remember”. And I awoke.



# Kinesin carrying Cargo



<http://www.dailymail.co.uk/sciencetech/article-2335596/Photographs-reveal-alien-planet-No--breathhtaking-animated-simulations-world-HUMAN-BODY.html>





# Publications

- CNN (2011) – Space Travel is a Spiritual Experience  
<http://religion.blogs.cnn.com/2011/07/06/my-take-space-travel-is-a-spiritual-experience/>
- Journal of Space Philosophy (2014) – Human Space Activity: The Spiritual Imperative  
<http://www.bobkrone.com/sites/default/files/Human%20Space%20Activity%20The%20Spiritual%20Imperative%20-%20Madhu%20Thangavelu.pdf>
- Astrosociology Journal Newsletter - Human Space Activity: The Spiritual Imperative  
[http://astrosociology.org/Library/PDF/Newsletters/ARI-Newsletter\\_Vol-3\\_Iss-2\\_10-2014.pdf](http://astrosociology.org/Library/PDF/Newsletters/ARI-Newsletter_Vol-3_Iss-2_10-2014.pdf)
- International Space University Magazine (2017) – Human Space Activity: The Spiritual Imperative  
<http://en.calameo.com/read/0047295678057f2b0ec52>

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**Editors' Notes:** We, in Kepler Space Institute (KSI), have included the spiritual and faith aspects of humanity's future in Space since we were meeting in Dr. Ken Cox's Aerospace Technology Working Group (ATWG), beginning in 1989. It has frequently been a subject in the *Journal of Space Philosophy* and in sessions in the Living in Space Track during annual International Space Development Conferences. University of Southern California's Professor Madhu Thangavelu, prepared this presentation for the ISDC 2017 Conference in St. Louis and for this issue of the *Journal of Space Philosophy*. He has motivated us to add a formal "Space Spiritual Dimension" component to the academic curricula that KSI is now planning. *Bob Krone and Gordon Arthur.*