

# 'God Vs. Science'

## A Critique of David Van Biem's Thesis\*

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*'We revere faith and scientific progress, hunger for miracles and for MRIs.  
But are the world views compatible ?' - David Van Biema*

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IN RECENT TIMES DAVID VAN BIEMA [16] held a debate: 'GOD VS. SCIENCE' between Richard Dawkins, a confessed atheist Biologist, who occupies the Charles Simonyi Professorship for Public Understanding of Science at Oxford University, and a Christian Geneticist, Francis Collins, the 'Genome' pioneer and Director of the US National Human Genome Research Institute since 1993. The cover of the **Time** [16] shows a rosary starting with cross and the beads ending in a double helix DNA (the thread of life) indicating its basic unit as beads. Inside the magazine is shown a figure of man with wings (may be representing God) and a man with heavy white beard (may be representing Darwin) facing each other arguing.

The discussion is based on the best seller, *The Language of God: A Scientist Presents Evidence for Belief*, of Francis Collins (Free Press).

Some of the points, related to the topic of discussion, reported by Biema are as follows:

- A Yale Psychologist, Paul Bloom has written bluntly, "*Religion and Science will always clash.*" The market seems flooded with books by scientists describing a caged death match between science and God – with science winning, or at least chipping away at faith's underlying verities.
- Brain imaging (MRIs – Magnetic resonance Imaging) illustrates – in color- the physical seat of the will and the passions, challenging the religious concept of a soul independent of glands and gristle. Brain chemists track imbalance that account for the ecstatic states of visionary saints or, some suggest, of Jesus.
- Most Americans occupy the middle ground, wanting it all: to cheer on science's strides and still humble the self on the Sabbath; access to both MRIs and miracles: debates about issues like stem cells without conceding that the positions are so intrinsically inimical as to make discussion fruitless. And to balance formidable standard bearers like Dawkins, most Americans seek those who possess religious conviction but also scientific achievements to credibly argue the widespread hope that science and God are in harmony – that, indeed, science is of God.
- In recent years, creationism took on a new currency as the spiritual progenitor of "Intelligent Design: (ID), a scientifically worded attempt to show blanks in evolutionary narrative are more meaningful than its very convincing totality. The Federal Judge declared Intelligent Design as pseudoscience unsuitable for teaching in Pennsylvania schools during December 2005.

I have argued for the last 20 years that for authentic understanding of Sikhism it is necessary to interpret Gurbani as is, keeping the mind away from old prevailing myths, and keeping in view the present knowledge of science and use of logic. But many learned theologians and scholars failed to understand my views and refused to publish my articles in the proceedings of their conferences. It was until 1992 when S Saran Singh, the Editor of *The Sikh Review* accepted my first article for publication [2]. The second article [3] was published in the following year in 1993 in response to the criticism of my first article by Col. Mehar Singh Grewal in *The Sikh Review* of July 1993 with editorial remarks by S. Saran Singh as follow: “ ... Few would question Dr Chahal’s sincerity in exploring Gurbani with the tools of science. His argument is appealing, his logic compelling. But in case of Col. Mehar Singh Grewal, as we knew him, neither reproach nor anger is justified, much less the imputation of Brahministic or other obscurantist tendencies...”

It is not difficult to understand that if religion is about God then Science is also about God. Therefore, there can be no clash provided religion is taught in its proper perspective [2-9]. I know little about other religions but I can vouch for that Sikhism, based on Nanakian Philosophy [6], has no clash with science. In fact Sikhism is truly a religion of logic and science.

It can be easily asserted that the following arguments about God by both the scientists are very similar to that proclaimed by Guru Nanak (1469-1539).

Richard Dawkins says: “Close reading of the physical evidence should lead towards atheism.” And Francis Collins says: “Material signs point to God but that God also exists out side of space and time.”

Let us first discuss the following statement of Dawkins, the protagonist of atheism:

“My mind is open to the most wonderful range of future possibilities, which I cannot even dream about, nor can you, nor can anybody else. What I am skeptical about is the idea that whatever wonderful revelation does come in the science of the future, it will turn out to be one of the particular historical religions that people happen to have dreamed up. When we started out and we were talking about the origins of the universe and the physical constants, I provided what I thought were cogent arguments against a supernatural intelligent designer. But it does seem to me to be a worthy idea. Refutable – but nevertheless grand and big enough to be worthy of respect. **I don’t see the Olympian gods or Jesus coming down and dying on the cross as worthy of that grandeur. They strike me as parochial. If there is God, it’s going to be a whole lot bigger and whole lot more incomprehensible than anything that any theologian of any religion has ever proposed.**”

I appreciate Dawkins’ comprehension about God: “I don’t see the Olympian gods or Jesus coming down and dying on the cross as worthy of that grandeur.”, since that is very cogent to that proclaimed by Guru Nanak in the Commencing Verse of the Aad Guru Granth Sahib (SGGS) [1] that God is ਅਜੂਨੀ (*Ajuni*) - does not take birth or die. And ਜਨਮਿ ਮਰਣਿ ਨਹੀ ਧੰਧਾ ਧੈਰੁ ॥ SGGS, M 1, p 931 [1 & 8]. (*Birth and death are not the God’s attributes: God is free from birth and death cycle.*). It means exactly

the same when Einstein proclaimed that: “*God does not come to this earth in anthropomorphic form.*” [8].

Again I feel proud to compare Dawkins’ other statement, “*If there is God, it’s going to be a whole lot bigger and whole lot more incomprehensible than anything that any theologian of any religion has ever proposed.*” with that of Guru Nanak, who had declared it consistently in his Bani that God is whole lot bigger and whole lot incomprehensible more than 500 years before Dawkins could realize these attributes of God. A typical verse of Guru Nanak in this respect is cited as follows:

ਕੋਟਿ ਕੋਟੀ ਮੇਰੀ ਆਰਜਾ, ਪਵਣੁ ਪੀਅਣੁ ਅਪਿਆਉ ॥  
ਚੰਦੁ ਸੂਰਜੁ ਦੁਇ ਗੁਫੈ ਨ ਦੇਖਾ, ਸੁਪਨੈ ਸਉਣ ਨ ਥਾਉ ॥  
ਭੀ ਤੇਰੀ ਕੀਮਤਿ ਨਾ ਪਵੈ ਹਉ ਕੇਵਡੁ ਆਖਾ ਨਾਉ ॥੧॥  
ਸਾਚਾ ਨਿਰੰਕਾਰੁ ਨਿਜ ਥਾਇ ॥  
ਸੁਣਿ ਸੁਣਿ ਆਖਣੁ ਆਖਣਾ ਜੇ ਭਾਵੈ ਕਰੇ ਤਮਾਇ ॥੧॥ਰਹਾਉ॥  
ਕੁਸਾ ਕਟੀਆ ਵਾਰ ਵਾਰ, ਪੀਸਣਿ ਪੀਸਾ ਪਾਇ ॥  
ਅਗੀ ਸੇਤੀ ਜਾਲੀਆ, ਭਸਮ ਸੇਤੀ ਰਲਿ ਜਾਉ ॥  
ਭੀ ਤੇਰੀ ਕੀਮਤਿ ਨਾ ਪਵੈ, ਹਉ ਕੇਵਡੁ ਆਖਾ ਨਾਉ ॥੨॥  
ਪੰਖੀ ਹੋਇ ਕੈ ਜੇ ਭਵਾ ਸੈ ਅਸਮਾਨੀ ਜਾਉ ॥  
ਨਦਰੀ ਕਿਸੈ ਨ ਆਵਉ ਨਾ ਕਿਛੁ ਪੀਆ ਨ ਖਾਉ ॥  
ਭੀ ਤੇਰੀ ਕੀਮਤਿ ਨਾ ਪਵੈ ਹਉ ਕੇਵਡੁ ਆਖਾ ਨਾਉ ॥੩॥  
ਨਾਨਕ ਕਾਗਦ ਲਖ ਮਣਾ ਪੜਿ ਪੜਿ ਕੀਚੈ ਭਾਉ ॥  
ਮਸੂ ਤੋਟਿ ਨ ਆਵਈ ਲੇਖਣਿ ਪਉਣੁ ਚਲਾਉ ॥  
ਭੀ ਤੇਰੀ ਕੀਮਤਿ ਨਾ ਪਵੈ ਹਉ ਕੇਵਡੁ ਆਖਾ ਨਾਉ ॥੪॥੨॥

[SGGS: m 1, p-14-15]

If my life is millions of millions years and air is my food and drink; If by living in cave and not seeing moon or sun to know whether it is day or night and never slept even in dream; still I cannot evaluate that how great you are and how could I say (repeat) God’s Name?

God is Formless and is of Its own. People hear again and again to repeat God’s name, if God is pleased with this system I will instill so in my mind. Pause.

If I slash my body and cut it into pieces and then put it into the grinding mill to grind it into paste (flour); if I burn myself into ashes even then I could not evaluate your greatness and could not figure out how to say (repeat) your name. 2.

If I were a bird soaring (flying) through hundreds of skies without drinking and eating and go far away to become invisible; even then I could not evaluate your greatness and how to say (repeat) your name.3.

Finally Guru Nanak says:

If I read and try to comprehend already written about God’s greatness on hundreds of kilograms of paper; if I have thousands of kilograms of paper to write with infinite quantity of ink and my pen writes at the speed of wind even then I would not be able to write your greatness and would not know how to say (repeat) God’s Name. 4. 2.

- SGGS, M 1, 14-15 [1].

Handler [10] reports his comments on 'God vs. Science' on CBC on October 28, 2006 that God recently made the cover of Time Magazine once again, proving He is not yet dead. God wouldn't be God if He couldn't make it into the headlines, once in a while. Handler [10] while commenting ridiculed Dr Hawkins but praised Dr Collins. Besides he supported Collins with following quotes about God:

"The British physicist and Christian Sir John Houghton told interviewer Bill Meyers something very similar on PBS. For the longest time we saw the universe as having only three dimensions. Then Einstein added time, a fourth, actually called space-time. And God is the fifth dimension, in Houghton's view, though the more esoteric string theorists are starting to come up with a bunch more."

Here again I would like to quote Guru Nanak, who defined God as 'ਅਕਾਲ ਮੂਰਤਿ' (*Akal Murat*) in the Commencing Verse (commonly called as Mool Mantra) of the Aad Guru Granth Sahib (AGGS). Here the word '*Murat*' is a metaphor for the body since there is no body or form for God. Therefore, the '*Akal*' is that metaphoric body on which there is no effect of time and it does not need any space to exist [8]. Although it is true that universe has the 'Fourth Dimension' but according to Guru Nanak God is beyond this so-called 'Fourth Dimension' since God does not need space-time to exist.

Now let us discuss how does Guru Nanak describe God's existence according to the space-time concept?

ਆਦਿ ਸਚੁ ਜੁਗਾਦਿ ਸਚੁ ॥

ਹੈ ਭੀ ਸਚੁ ਨਾਨਕ ਹੋਸੀ ਭੀ ਸਚੁ ॥

SGGS, Jap, 1.

It is important to understand the meanings of ਸਚੁ (*sach*). ਸਚੁ (*sach*) and ਸਤਿ (*sat*) are commonly used in the Gurbani and both means 'true' or 'truth' and/or 'exist' or 'existence' depending on the context these words have been used. Here the word '*sach*' means 'exists'. Prof Sahib Singh [13] and Giani Harbans Singh [12] also interpreted '*sach*' as 'exists'. This '*sach*' represents that Entity, which has no descriptive/specific name, but exists. Therefore, it is interpreted as follows [8]:

Was in existence<sup>2</sup> before the beginning of the time and space;

Was in existence in the past<sup>3</sup>; Is in existence in the present<sup>4</sup>;

Will remain in existence forever<sup>5</sup> (in the future).” - SGGS, Jap, 1.

Since according to Guru Nanak God was in existence before the beginning of time and space (before the Big Bang) and was in existence in the past time, and is in existence in the present and will remain in existence forever in the future, therefore, God is beyond the 'Fourth Dimension' of Einstein and even the so-called 'Fifth Dimension' of Houghton. God is beyond any dimension as is further explained according to Nanakian Philosophy as follow:

It is well established theory that this universe was in highly concentrated form of energy in a very minute size almost to 'Nothingness' when it exploded (Big Bang) and everything was created thereafter as we see the universe today. About this Guru Nanak says: ਕੀਤਾ ਪਸਾਉ ਏਕੋ ਕਵਾਉ ॥ ਤਿਸ ਤੇ ਹੋਏ ਲਖ ਦਰੀਆਉ ॥ *The universe exploded with*

*one sound (big bang) and started to expand, hereafter appeared many things*. SGGS, Jap 16, p 3. On the other hand it is also established theory that this universe may go back into the 'Black Hole' – again into the highly concentrated form of energy as 'Nothingness' ready to explode again. Here again according to Nanakian Philosophy Guru Arjun says: ਕਈ ਬਾਰ ਪਸਰਿਉ ਪਾਸਾਰ॥ ਸਦਾ ਸਦਾ ਇਕੁ ਏਕੰਕਾਰ॥ *The universe came into existence many times but the God remained One and Only all the times*. SGGS, M 5, p 276. This 'Nothingness' is the s~un (*Sunn*) according to Guru Nanak and God existed in this '*Sunn*' before Big Bang [9]:

ਆਦਿ ਕਉ ਬਿਸਮਾਦੁ ਬੀਚਾਰੁ ਕਥੀਅਲੇ ਸੁੰਨੁ ਨਿਰੰਤਰਿ ਵਾਸੁ ਲੀਆ॥

- SGGS, M 1, 940.

It can be contemplated<sup>3</sup> only in wonder<sup>2</sup> that before the beginning of time and space<sup>1</sup> (before Big Bang) the Oneness<sup>5</sup> (God) existed<sup>6</sup> in the Sunn<sup>4</sup> (Nothingness) – the highly concentrated form of energy.

Therefore, the *Akal* (God) of Guru Nanak does not come into any anthropomorphic form; does not need space-time to exist since It exists everywhere and is beyond the concept of space-time.

“*God is dead or disappeared because of the image of him that the church used for many, many ages,*” says Dominican Theologian Edward Schillebeeckx [15]. At its worst, the image that the church gave of God was that of a wonder worker who explained the world’s mysteries and seemed to have somewhat more interest in punishing men than rewarding them. Life was a vale of tears, said the church; men were urged to shun the pleasure of life if they would serve God, and to avoid any false step or suffer everlasting punishment in hell. It did little to establish the credibility of this “God” that medieval theologians categorized his qualities as confidently as they spelled out different kinds of sin, and that churchmen spoke about him as if they had just finished having lunch with him [15].

Almost the same above philosophy about God is being taught in Gurdwaras, on TVs, in Media and in Sikh literature. Most of the Sikh theologians have failed to represent God [5, 8] in its real perspective because of the reasons discussed later under ‘OBSERVATIONS AND SUGGESTIONS’. It is evident that unless God is represented according to Nanakian Philosophy it will remain either dead for many atheists or revengeful for the whole lot of the faithful.

Although according to Guru Nanak God is *Inaccessible, Unfathomable, Invisible and Infinite* (ਅਗਮ, ਅਗੋਚਰ, ਅਲਖ, ਅਪਾਰਾ) but still we pray to God *to take care of us - all living beings* (ਚਿੰਤਾ ਕਰਹੁ ਹਮਾਰੀ ) (AGGS, M 1, 795). How does God take care of us? Guru Nanak further explains that God is ਨਿਰਵੈਰ (without enmity) and is ਗੁਰ (Enlightener – Who has given us enough intellect to think) and is ਪ੍ਰਸਾਦਿ (Bounteous – has provided us every thing in nature) [8]. Therefore, according to Nanakian Philosophy “*Although God is Inaccessible, Unfathomable, Invisible and Infinite, still God is without enmity and has provided us enough intellect to think how to use the bounties provided in nature.*”

## **CONCLUSION;**

- Had the Sikh theologians and the custodians of Sikhism (Shiromani Gurdwara Parbandhak Committee, Amritsar) represented God in His true perspective, as

explained above, then Dr Richard Dawkins, the atheist scientist, and Dr Francis Collins, the Christian Geneticist, would have quoted God according to the philosophy of Guru Nanak during this debate, 'God vs Science'.

- The irony is that Sikhism is still being represented as a mythical and ritualistic religion even during this Current Science Age.

#### **OBSERVATIONS AND SUGGESTIONS:**

- My critical analysis of Bani of Guru Nanak, which is incorporated in the AGGS, indicates that it is scientific and logical provided it is interpreted by applying science and logic [2-9].
- The irony is that misinterpretation of Bani of Guru Nanak started right after him. It was first 'Udasi School of Thought' started by Baba Sri Chand. It is not known at what stage misinterpretation of Bani of Guru Nanak was started by Udasis, however, it became apparent only on reading the interpretation of **Jap (1825)** by Udasi Anad Ghan that was found to be in the tune of Vedas and Puranas. On the other hand *Vaaran* of Bhai Gurdas became very important after the compilation of Granth by Guru Arjun in 1604. Although a lot of Vedantic philosophy has been introduced in explaining Gurbani, however, many stalwart Sikh theologians accept his *Vaaran* as the 'Key' to understand Gurbani. Thereafter, misinterpretations of Gurbani under the influence of Vedantic philosophy continued by the 'Meharbaan School of Thought' (1650-1654). After Guru Gobind Singh (1708) further amalgamation of Vedantic philosophy and mythology into Gurbani was carried on by 'Nirmala School of Thought' especially by Bhai Santokh Singh, Pandit Gulab Singh, Pandit Ishar Singh, Pandit Tara Singh, and Giani Gian Singh. The Nirmalas have emphasized strongly that that Vedas are the ultimate truth and Gurbani explains the Vedantic philosophy in *Desi* (rural) language and Sanskrit is the language of *Devatas* (gods); Gurbani does not contradict Vedantic philosophy; *Tirth* and *Vrat* (pilgrimages and fasting) are not condemned; idol worship is not contradicted; *Naam Japna* is accepted; and Brahma, Atma, Karma, transmigration and *mukti* systems are accepted. Later Bhai Badan Singh prepared a *Teeka* (annotation) of Guru Granth with some improvement but still interpretation was fully loaded with Vedantic philosophy and mythology. This *teeka* became very common and important piece of work and it is commonly called as '*Farid Kote Wala Teeka*'. Moreover, the contemporary scholars are still translating the AGGS on the lines of *Farid Kote Wala Teeka* with little improvement [8, 11, 14].
- To bring out the philosophy of Guru Nanak in its real perspective it is absolutely necessary to interpret Bani of Guru Nanak by applying science and logic for further studies by the philosophers, theologians and rest of the humanity of the Current Science Age.
- I hope some steps toward this aspect of representation of philosophy embodied in the Gurbani incorporated in the AGGS will be taken up by the Shiromani Parbandhak Committee, Amritsar before the celebration of the Tercentenary of the 'Reiteration of Guru-ship onto the Granth - Sikh Scriptures) in 2008.
- In this respect I would like to quote Albert Einstein, the Nobel Laureate as follows:

*“After religious teachers accomplish the refining process indicated, they will surely recognize with joy that true religion has been ennobled and made more profound by scientific knowledge.” Albert Einstein*

## REFERENCES

1. SGGS = (Aad Guru Granth Sahib) 1983 (reprint). Publishers: Shiromani Gurdwara Parbandhak Committee, Amritsar. (M = Mahla, i.e., succession number of the Sikh Gurus to the House of Nanak, M is replaced with the name of Bhagat/ Bhatt for their Bani, p = Page of the AGGS).
2. Chahal, D. S. 1992. Scientific Interpretation of the Sikh Scriptures. *The Sikh Review*. 40 (July): 5-20.
3. Chahal, D. S. 1993. Scientific Interpretation of Gurbani. *The Sikh Review*. 41 (December): 23-35.
4. Chahal, D. S. 2000. Sikhism Scientific and Logical Religion For The Third Millennium And Beyond. *Understanding Sikhism Res. J.* 2(2): 7-23.
5. Chahal, D.S. 2002. A Unique Concept of God in Nanakian Philosophy. *Understanding Sikhism Res. J.* 4 (2): 5-16.
6. Chahal, D.S. 2002. Nanakian Philosophy - The Term Defined. *Understanding Sikhism Res. J.* 4 (2): 17-23.
7. Chahal, D.S. 2004. Meanings of 'Hukm' According to Nanakian Philosophy. *Understanding Sikhism Res. J.* 6 (1): 11 -16.
8. Chahal, D. S. 2003. *Jap: The Essence of Nanakian Philosophy*. Institute for Understanding Sikhism, 4418 Martin-Plouffe, Laval, Quebec, H7W 5L9, and Singh Brothers, S.C.O. 223-24 City Centre, Amritsar – 143 006.
9. Chahal, D.S. 2006. Origin of Universe in Sikhism. *Understanding Sikhism Res. J.* 8 (1): 46-52.
10. Handler, Richard. 2006. Comments on God vs. Science. [http://www.cbc.ca/news/viewpoint/vp\\_handler/20061128.html](http://www.cbc.ca/news/viewpoint/vp_handler/20061128.html)
11. Singh, Joginder. 1981. *Japji de Teeke: Samikhyatmack Adhyan*, (Punjabi). Pub: Srimati Mohinder Kaur , 24 Green View, Patiala, India
12. Singh, (Giani) Harbans. 1988. *Aad Sri Guru Granth Sahib* (Punjabi). Vols. 14. Gurmat Seva Parkashan, Patiala, India.
13. Singh, (Dr) Sahib. 1972. *Sri Guru Granth Sahib Darpan*. (Punjabi). Vols 10. Raj Publishers (Reg.), Jalandhar, India.
14. Singh, Taran. 1997. *Gurbani dian Viakhia Parnalian* (Punjabi). Punjabi University, Patiala, India.
15. Toward a Hidden God (See Cover – Is God Dead? *Time*. April 8, 1966 Vol. 87 No. 14.
16. Van Biema, David. 2006. God vs. Science. *Time*, Canadian Edition, November 13, 2006, pp 32-39.