

# Bhaktivedanta Institute Publications Catalogue



## Thoughts of *N*obel Laureates

21

& Dr. T. D. Singh on Science & Spirituality



Journal

Magazine

Vedanta &  
Science Series

Conference  
Proceedings

Books

# Some of the contributors in our publications



T. D. Singh, Founder Director  
Bhaktivedanta Institute



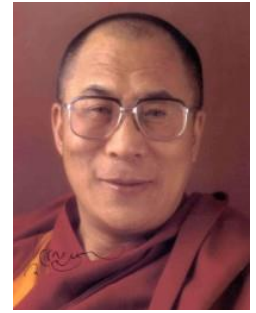
Charles H. Townes  
Nobel Laureate in Physics



A. P. J. Abdul Kalam  
Former President of India



Manmohan Singh  
Former Prime Minister



The Dalai Lama  
Nobel Laureate in Peace



Desmond Tutu  
Nobel Laureate in Peace



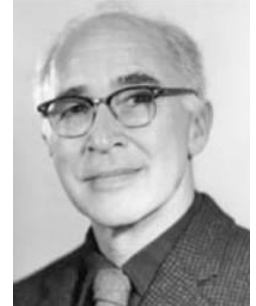
Adolfo Perez Esquivel  
Nobel Laureate in Peace



Werner Arber  
Nobel Laureate in Medicine



Richard R. Ernst  
Nobel Laureate in Chemistry



George Wald  
Nobel Laureate in Medicine



Betty Williams  
Nobel Laureate in Peace



William D. Phillips  
Nobel Laureate in Physics



Mairead Maguire  
Nobel Laureate in Peace



Alan G. MacDiarmid  
Nobel Laureate in Chemistry



Jerome Karle  
Nobel Laureate in Chemistry



John Polanyi  
Nobel Laureate in Chemistry



Shirin Ebadi  
Nobel Laureate in Peace



Ahmed Zewail  
Nobel Laureate in Chemistry



John Eccles  
Nobel Laureate in Medicine



Oscar Arias  
Nobel Laureate in Peace



Roger D. Kornberg  
Nobel Laureate in Chemistry



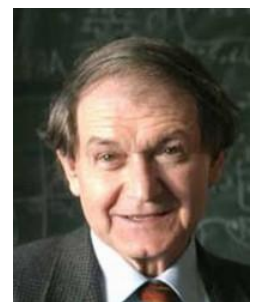
Paul C. Lauterbur  
Nobel Laureate in Medicine



Brian D. Josephson  
Nobel Laureate in Physics



Freeman J. Dyson  
Templeton Laureate



Roger Penrose  
Wolf Prize in Physics



# Words of Appreciation

*A valuable compilation ... (on) the synthesis of science and religion ...  
This volume will decidedly pave way for such integrated approach.*

— **The Hindu**, India's Leading National Newspaper

*Unique book ... This is a pioneering effort to bring so many Nobel Laureates together in one publication discussing science and spirituality.*

— **Business Economics**, the famous magazine

*Will enormously benefit the readers.*

— **Dr. K. S. Virbhadra**  
Relativistic Astrophysics, Duke, USA

*Really useful for improving knowledge and quality of life.*

— **Dr. K. K. Dhir**  
Registrar, National Institute of Technology, Jalandhar, India

*Feel compelled to re-read many articles.*

— **Dr. Daulat Patil**  
Lawrence Berkeley Lab, Berkeley, CA, USA

*My hearty congratulations to Bhaktivedanta Institute, Kolkata, for their noble cause in imparting spiritual awareness in different parts of the country, to make this era spiritual in a holistic manner.*

— **Prof. Abbha Singh**  
Joint Director, Amity Institute of Behavioural and Allied Sciences, Noida, India

*I just cannot describe the joy I got every time I read through the pages of any of the articles published therein. [...] Kindly accept my gratefulness for having started this kind of publication based on modern scientific footings from the soil of India, the home of the vedantic philosophy.*

— **Prof. Anil Moharir**  
IIT Delhi, Former-Head, & Prof., Div. of Agricultural Physics, IARI, New Delhi

*I am delighted that the Bhaktivedanta Institute is just doing what needs to be done to create a human society, to make true happiness reachable to a common man, in turn creating a civic society tuned to noble objectives of human existence in the realm of divine while being in a perishable material world. [...]*

*The publications of the Institute such as 'Seven Nobel Laureates on Science and Spirituality' and 'God, Intelligent Design and Fine-Tuning' have made a remarkable impact on the minds of the students of modern science and have filled a long felt need to provide the bridge between science and spirituality.*

— **Prof. P. B. Sharma**, President of the Association of Indian Universities,  
Vice-Chancellor of Amity University, Gurgaon

Dear readers,

We are delighted to present to you our latest catalogue. We hope you will enjoy discovering its contents as much as we enjoyed preparing the description for each publication.

Bhaktivedanta Institute's books and magazines bring out the pearl from the ocean of Vedantic scriptures and up-to-date scientific knowledge.

With renewed insights born from the **synergy** of science and spirituality, explore the underlying secrets of:

- **Life**, its origin, and its interactions with matter,
- **Consciousness**, and its location,
- **Nature**, and its challenges,
- the **Universe**, and its purpose,
- **Evolution**,
- **Aging**,
- the Art of maintaining **Peace and Harmony**,
- the Art of incorporating **Spirituality** in our individual professional and social lives,
- **Free will**,
- **Faith**, etc.

Receive threads of wisdom in the fields of: [biology](#), [genetics](#), [physics](#), [quantum mechanics](#), [mathematics](#), [chemistry](#), [cosmology](#), [archeology](#), [neuroscience](#), [artificial intelligence](#), [cognitive science](#), [ecology/environment](#), [biomedical ethics](#), [psychology](#), [philosophy](#), [conflict resolution](#), [world peace](#), [interfaith dialogue](#), [art](#), [spiritual experiences](#), [vedanta](#), [faith](#), [culture](#), etc.

Our publications:

- Help the readers develop extra capacities to understand situations, and to **solve problems** at all levels, in a holistic way.
- Encourage the public to play a **role** in the process of national **development**, while giving weight to mutually satisfying human relationships and respectful interactions with Nature.
- Broaden the readers' visions, encourage their self-investigations, and support their explorations of effective tools, in order to become **appreciated professionals**, and citizens able to build more **peace, health and harmony** in the country and on the planet as a whole, for the benefit of all, in the short and long run.
- Enthuse the citizens to rediscover the amazing value of our **ancient wisdom**, and to explore various religious world-views and spiritual insights that have become surprisingly pertinent in the context of the modern technological era.

Looking forward to hearing from you,

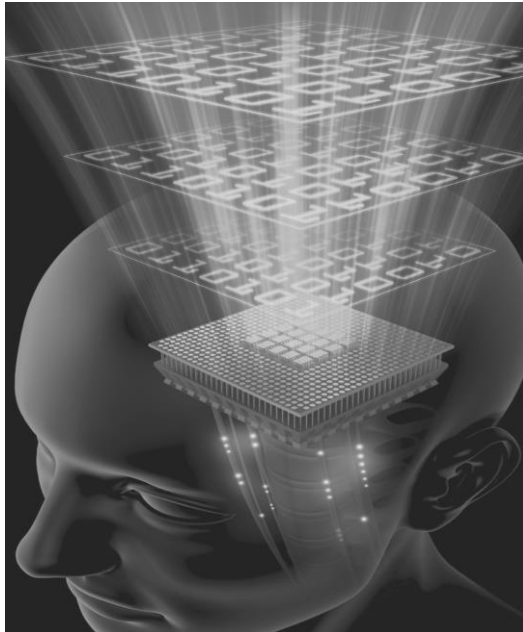
*The Publishers*  
*Bhaktivedanta Institute, Kolkata, India*

# Consciousness – Scientific and Vedantic Perspectives

Dr T. D. Singh

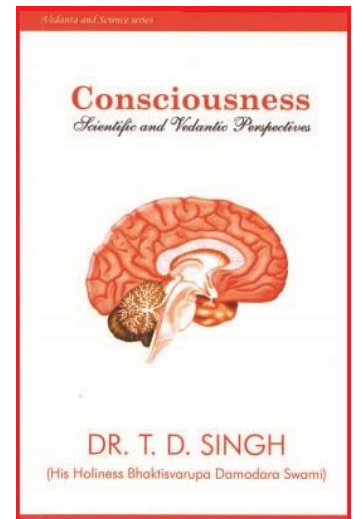
*"Now is the time to think scientifically about consciousness (and its relation, if any, to the hypothetical immortal soul) and, most important of all, the time to start the EXPERIMENTAL study of consciousness in a serious and deliberate way."*

*Francis Crick (1916 - 2004)  
Nobel Laureate in Physiology or Medicine*



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Website: www.binstitute.org



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**Subjects:** Science, Neuroscience, Neuropsychology, Biology, Biotechnology, Science and Spirituality, Vedanta, Veda

**Readership:**  
Science & Technology Students,  
Teachers, Faculty members,  
Teach yourself Science readers,  
Teach yourself Vedanta readers,  
Spiritual seekers

- When we see our face in the mirror and look into our eyes, who is really looking, and at whom?
- What is consciousness, and where is it located?
- What do the main discoveries in neuroscience and neuropsychology teach us?
- How can we feel (emotions, pain, etc.), imagine, make decisions?
- How can we experience anything at all?
- What about quantum brain research to help solve the mystery of consciousness?
- How is Nature wonderfully organizing everything so that we can be conscious?
- What is the Vedantic model of consciousness?
- What are the various degrees of consciousness?
- Can living entities devoid of brain have some intelligence anyway? Why?

# Essays on Science & Religion

Dr T. D. Singh

"Our science – Greek science – is based on **objectification**. ... But I do believe that this is precisely the point where our present way of thinking **does need to be amended**, perhaps by a bit of blood-transfusion from **Eastern thought**." — E. Schrödinger (*Quantum Physicist, Nobel Prize*)

- ✓ **Four groundbreaking essays** to fulfill your quest for a deeper understanding of life and an improved quality of life!
- ✓ **Explore religious wisdom** in new ways.
- ✓ **Envision** how you can become **actively involved in restoring harmony and world peace**, through your scientific career!
- ✓ **Get ideas** for future scientific research work...

## The main contents:

1. New thoughts on science and religion
  - The **purpose of human life**
  - A **challenge** to Darwinian and reductionistic model of life
  - **Unity** and synthesis of different religions
2. An efficient vision for the **synthesis** of science and religion
3. Science and spirituality for **world peace now and tomorrow**
  - Some **common grounds** from science and spirituality for world peace
  - The role of **faith** in science and in religion
  - The domain of **reality beyond sense perception**
  - Understanding of the **origin of life** and its value
  - Studying the nature of **consciousness**
  - Resolving **ethical challenges** and achieving **world peace**
4. Science and religion – **Present and future**
  - Scientific research of life's origin by assembling ready-made **biomolecules**
  - Further research on **viruses** (especially human immunodeficiency virus HIV) and examining life's origin
  - Religious view of life's origin and the role of **free will** in human life
  - A scientific and spiritual background of **Vedic culture** in which science and religion function **co-operatively**
  - **Ayurvedic** medicine
  - **Yoga**
  - Suggestions for **further work**.

In this era of restlessness, distrust, fanaticism, drug indulgence, violence and anxiety... what are the **solutions to restore** sanity, **peaceful living**, **freedom from fear**, friendship, love, and **respect** for all forms of life and mother earth?

"How science can help **unite all the religious traditions** together." How to avoid conflicts and provide harmony?

How to **solve problems** of our day-to-day life?

Why, by **working together**, scientists and religionists can bring about the greatest **good** for humankind?

How to **implement** the needed cooperative dialogue between science and spirituality for lasting **world peace**?

As "**an important part of the peace process**", how to **appreciate** and **support** one another despite **cultural and religious differences**?

Is a **virus alive or not**?

What is **free will**? In science, is there room for free will?

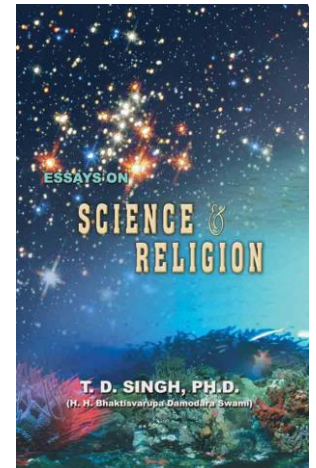
What blocks some individuals (scientists and others) from being able to ponder over and search on the **deeper aspects of life's experiences**?

Can you mention "**nice examples of science and religion working in harmony** for the well-being of the individual"?

How to become **free from mental anxiety**?

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Engineers, Technicians,  
Teach yourself Science readers,  
Teach yourself Vedanta readers,  
Spiritual seekers

# God is a Person

Open reflections of two Nobel Laureates with Dr T. D. Singh

Also available in Bengali, Oriya and Hindi

Are God and His personality mere **imagination** of the human mind?

Qr: Does He really exist with **spiritual attributes**? And **what kind of person** is He?

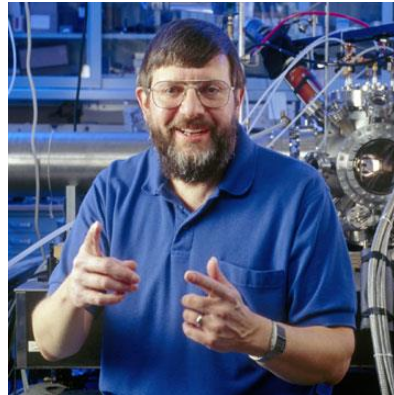
Does He have, **like us**, a physical body shaped by genome and acting in space & time?

Qr: Is He a transcendental personality **beyond the influence of material nature**?



Charles H. Townes

**Nobel Prize in Physics, Templeton Prize**  
Inventor of **Laser and Maser**



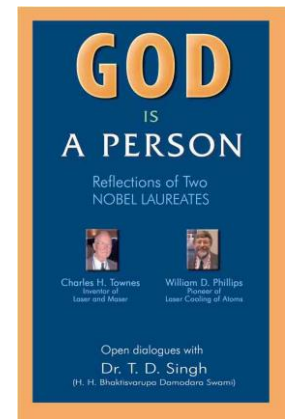
William D. Phillips

**Nobel Prize in Physics**  
Pioneer of **Laser Cooling of Atoms**

... A straightforward discussion with *Dr. T. D. Singh*, a scientist, and a spiritualist in the Bhakti-Vedanta tradition of India, and a pioneer in advancing dialogue between science and religion.

- ✓ **Discover the inner realizations and heart-felt views** of two of the most **brilliant scientists** of our time; and witness how amazingly close to the teachings of the Vedanta they are.
- ✓ **Be inspired by these deep insights!**  
**Reflect on our own perceptions** about the nature of the **Ultimate Reality** or God.
- ✓ **Realize** and appreciate how intellectuals from **different backgrounds and religions** can share **similar awareness and essential conclusions**. A big stepping-stone towards inter-faith dialogue and world peace!
- ✓ **Learn more about the amazing truths** contained in the timeless **Vedanta**.

- Can science **prove** the **existence of God**? Is **time** eternal? What is **consciousness**?
- "By their own experience of **scientific investigation**", many scientists can **grasp some aspects of God** to some degree. What are they?
- How does God manifest the **material universes** and **biodiversity**, according to Vedanta?
- "In physics now, we are finding more and more **unknown things** that we recognize must be **present**. We can see and detect only five percent of the matter in our universe. We don't know what the rest is." Could there be other forces involved outside of what modern science presently knows?
- "**Why are we here?** What are we supposed to do? What is our life like? What does it mean?" Examine this with Prof. Townes and Dr T. D. Singh!
- "This is why I say that science and religion are really quite parallel. They must converge. And **they can influence and inform each other**." Why?
- "To best understand either science or religion, we must **use all of our human resources** — logic, evidence (observations or experiment), carefully chosen assumptions, **intuition**, and **faith**." Read more!
- Have you ever heard about the "**science of happiness**"? How can we become happy, as individuals and as scientists, according to Prof. Townes?
- Find out how Prof. Phillips experimented "**the power of prayer**" over the years.
- "The Creator gave us a universe that had the **potential** to produce creatures like us. **Why?**" What is Prof. Phillips's concept here?
- In which ways can scientists receive **special inspiration and ideas from God**, in the course of their research? What is the personal experience of both Nobel Laureates in this regard? How has God manifested His help to them?
- Which **state of mind** can help us be more **prepared to receive the gift of creativity** from God?
- How can many scientists say that **God is a Person**?



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Religion, Inter-Faith, Wisdom

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# God, Intelligent Design, and Fine-Tuning

A profound exchange between prominent biochemist **Prof. Michael Behe** and **Dr T. D. Singh**

"Made a remarkable impact on the minds of the students of modern science and filled a long felt need to provide the bridge between science and spirituality."

Prof. P.B. Sharma, **Principal**, Delhi College of Engineering, & Founder Vice-Chancellor, Rajiv Gandhi Technical University, Bhopal



**Michael J. Behe** earned a **Ph.D. in biochemistry** from the University of Pennsylvania, USA. He is currently **professor of biological sciences at Lehigh University**. Behe's research focuses on the structure and function of chromatin and has been funded by the National Institutes of Health and the National Science Foundation. His award-winning best-seller ***Darwin's Black Box: The Biochemical Challenge to Evolution*** has been reviewed in *Science*, *Nature*, *New Scientist*, *National Review*, the *Wall Street Journal* and the *New York Times*. Behe is a member of the **Biophysical Society** and the **American Society for Molecular Biology and Biochemistry**. He is also a fellow of the **Discovery Institute's Center for Science and Culture**.

For over a century, the scientific establishment has ignored challenges to the theory of evolution. But in the last decade such complacency about its scientific and philosophical foundations has been shaken. As cracks in the Darwinian edifice have begun to appear, a movement has emerged among renowned scholars exploring the possibility of intelligent design, thus challenging the ideology of materialistic naturalism on both scientific and philosophical grounds.

Modern biochemistry has uncovered the secrets of cells and has revealed a marvelous design even at the molecular level. Other advancements in science have also shown some of the precise laws and unique fundamental constants in the universe. All these observations point to a fine-tuned and especially designed universe with a purpose by a Supreme Being, or God.

- ✓ Examine in a **scientifically sound** and **philosophically astute** way how the recent advancements in science **challenge** Darwin's theory of evolution.
- ✓ Explore the newly discovered **marvels** of life, the cosmos, the cell, and see how they are **compelling evidence** for an intelligent design and a **supreme designer!**
- ✓ Investigate about the **origins of life, evolution, & the realities** of this amazing world in which we live.

*Some of the topics discussed:*

What is the difference between "intelligent design" and "fine-tuning"?

The entire Mendeleev's periodic table of elements in chemistry is also an example of fine-tuning.

Why is that in the living bodies, all the amino-acids are stereochemically present in L-forms and the sugar molecules in D-forms?

While observing the fantastic interactive complexity of the cell and all the molecular machines that make it run, how can we say that it has been designed? What shows that Darwinian explanations won't work with many of the structures we find in the cell?

Can we demonstrate that there is a divine principle which exists but may not be exactly conceivable by our brain capacity?

Soul and consciousness in animals, like pets, birds, microbes, bacteria.

Can we increase the reaction rate in experiments, so that this acceleration enables us within a short span to study the evolution normally taking place over a longer period of time?

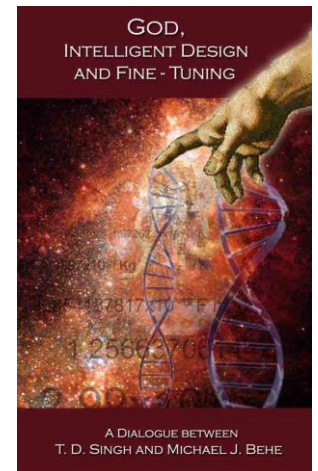
Can we scientifically study the presence of desire to prove the presence of life?

For computer scientists desiring to research more on life and its origin, what are the best areas to look in, some research trails?

Can scientists speak everything openly? What are the risks?

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Teach yourself Science readers,  
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# Life and its Origin – Exploration from Science and Spiritual Traditions

Second International Congress – Rome, Italy



This congress provided a **very fertile and open platform** for an **interdisciplinary** approach in order to answer questions such as:

Can modern scientific knowledge satisfactorily explain bio-diversity, consciousness, and the origin of life?

Could we integrate spiritual axioms into the experimental research related to life and its origin?

What new knowledge may we obtain through an integrated, interdisciplinary study of life and its origin?

Can studying life's origin from the various perspectives of the world's spiritual traditions help us to better understand evolution?

What are the possible means to introduce spiritual truths into the scientific mainstream?

The book contains all the lectures given by both scientists and religionists during the three-day congress.

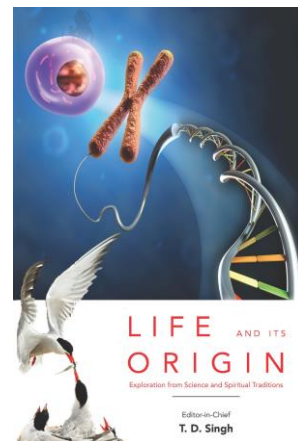
- ✓ Read and benefit from the eye-opening presentations given during this congress, as if you had been personally present.
- ✓ A unique way to broaden your understanding of life and its origin.
- ✓ An efficient reference for students and scholars alike.
- ✓ Discover outlines and hints for possible future research areas on this topic.

Some of the *speakers*:

**Prof. Gennaro Auletta**, Scientific Director, Pontifical Gregorian University, Italy  
**H. H. Sri Sri Saldas Baba**, International Chairman, Sai Foundation Organization  
**Prof. Francesco Bistoni**, Microbiologist & Rector of University of Perugia, Italy  
**Dr. Mikulas Blazek**, Physicist, Vice-Chancellor Emeritus of Trnava University, Trnava, Slovak Republic.  
**Prof. Luis Boya**, Theoretical Physicist, University of Zaragoza, Spain  
**Dr. Don Maurizio Calipari**, Pontifical Academy for Life, Rome, Italy  
**Michael A. Cremo**, Researcher in human origins, USA  
**Dr. Gianfranco Di Segni**, Biologist of CNR, Jewish Comm., Italy  
**Mr. Jonathan Edelmann**, Research Scholar, Oxford University, U.K.  
**Baba Gar-Diuf**, Bay-Fall Theologian, Senegal, Africa  
**Dr. Anita Goel**, Department of Physics, Harvard University & Division of Health Sciences and Technology (HST), MIT and Harvard University, USA  
**Prof. Raad Hassan**, Islamic expert in Bioethics, Liban  
**Imam Samir Khaldi**, Theologian and Islamic Authority, Italy

**Dr. Robert Mann**, Chair of Physics Dept., University of Waterloo, Canada  
**Prof. Vittorio Marchi**, Quantum Physicist, Rome, Italy  
**Father Maximilian Mizzi**, FOFMC, CEFID, Centro Francescano Internazionale per il Dialogo, Assisi, Italy  
**Fr. Stefano Popa**, Archbishop, Orthodox Church, Romania  
**V.V. Raman**, Physicist, Rochester Institute of Technology, USA  
**Prof. Arij A. Roest Crollius S. J.**, Emeritus Professor of Theology of Religion and Culture - Interreligious Dialogue, Pontifical Gregorian University  
**Dr. Pauline M. Rudd**, Glycobiologist, University of Oxford, U.K.  
**Prof. Lothar Schäfer**, Physical Chemist, University of Arkansas, USA  
**Prof. Giuseppe Sermonti**, Professor of Genetics, Italy  
**H. H. Guru Shabad**, Spiritual Guide of Sikh Dharma, Italy  
**Dr. T. D. Singh**, Physical Organic Chemist and International Director, Bhaktivedanta Institute, India  
**Ven. Ghesce Sonam Cianciub**, Buddhist Spiritual Master, Tibet

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Religion, Wisdom, Peace,  
Vedanta, Veda, Hinduism

**Readership:**  
Science & Technology Students,  
Graduates engaged in research,  
Teachers, Faculty members,  
Teach yourself Science readers,  
Spiritual seekers, Peace seekers

From the desk of the General Secretary, **Presidency of the Italian Republic**

The Second World Congress on "Life And Its Origin" represents an occasion to strengthen our commitment towards the life's values of solidarity and respect for human rights. [...]

The President of the Italian Republic expresses his profound appreciation for the Bhaktivedanta Institute and offers his cordial salutation to the illustrious speakers, to the Event's organizers and to all the participants of the Congress.

To this, I too append my personal salutation for the same.

Gaetano Gifuni, General Secretary Presidency of the Italian Republic



# Life and Origin of the Universe

Vedanta & Science Series Dr T. D. Singh

What is life? What is the origin of the universe? Is there any meaning and purpose behind the manifestation of life and the universe?

Vedanta, the topmost scientific and philosophical treatise of India's cultural heritage, can provide a vital leap in expanding our comprehension.

- ✓ Satisfy your lifelong curiosity!
- ✓ Investigate contemporary theories, and deepen your understanding.
- ✓ See the relevance of Vedantic wisdom in the context of modern scientific and technological developments.

## Contents:

1. Human life and evolution of consciousness
  - Early commentaries on Vedānta-sūtra - Fivefold truths of Vedānta-sūtra
  - The 1<sup>st</sup> aphorism of the Vedānta-sūtra - Inquiry and uniqueness of the human form of life
  - Vedanta and absolute truth - Vedantic paradigm of consciousness
  - Consciousness as another category of reality - Evolution of consciousness and rarity of human birth
2. A glimpse of the origin of the universe
  - The 2<sup>nd</sup> aphorism of the Vedānta-sūtra
  - A brief overview of the Big-Bang theory of scientific cosmology
  - General theory of relativity, quantum mechanics, and origin of the universe - The problem of singularity
  - Quantum mechanics in the arena of the Big-Bang - Attempts for a unified theory
  - Vedantic cosmology - The theory of Big Vision - Cosmic elements and some terminologies in Vedanta
  - Time and space in vedantic cosmology
  - Two states of matter and generation of matter from spirit - Vedantic explanation of God, the Supreme Being
  - The process of creation / Maintenance and time-scale of the universe / Dissolution
  - Spiritual particle, "spiriton" and a vedantic view for a theory of everything.

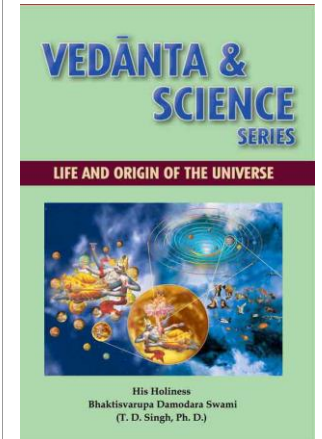
*Also available in Indonesian.*

## A sample of the Vedantic awareness you will gain:

- ◆ Vedanta provides an elaborate background to demonstrate that there is a different dimension of reality.
- ◆ Real time is experienced differently at various locations within the universe.
- ◆ What is the purpose behind the manifestation of the material world? Why are there so many different planets?
- ◆ Is our universe open or closed? What is its shape? How old is it? Are there other universes? How are they described? Do they all shelter life? What about the cyclical creations and annihilations of the universes?
- ◆ Happiness is the ultimate goal of every living being. The cosmic creation must, therefore, have a built-in potential principle on how every living being can attain real happiness. Learn more!
- ◆ Today, after much advancement in science and technology, we are experiencing a new dimension of great danger in the form of terrorism, nuclear war, chemical warfare, and the question of our very survival is at stake. Directly or indirectly our materialistic scientific culture is the cause of all these great anxieties. Why? And what is the root cause?
- ◆ What does Vedanta tell us about Brahman, the Absolute truth? What are the three categories of the Absolute Truth?
- ◆ There are two categories of consciousness; what are they?
- ◆ Matter is inert and has no consciousness. But there is interaction between the individual particle of consciousness and matter. How?
- ◆ The interaction of consciousness with intelligence, mind, and senses, is described in the Katha Upanisad. Learn more!
- ◆ In our day-to-day activities we can feel a seemingly inexplicable guidance, that is sometimes described as intuition or inspiration. This happens often, when we are deeply contemplating on a problem; and the solution comes like a flash without any connection to the line of thought that we had been contemplating. How is this explained?

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# Life and Spiritual Evolution

Dr T. D. Singh

The modern theory of evolution is taught in almost all schools and colleges around the globe and is influencing thousands of students every moment. Life, according to this paradigm, is a product of the evolution of the lifeless cosmic dust particles (atoms and molecules), which have no meaning and purpose.

However, all religious traditions of the world proclaim a divine meaning and higher purpose of life.

**Vedanta**, the topmost philosophical treatise of spiritual and cultural heritage of India, provides a **vivid description about life, its origin and meaning**.

- ✓ Gain insights from the Vedantic literature; look deeper into the nature of life!
- ✓ Discover the holistic paradigm about life incorporating the spiritual dimension of life and the evolution of consciousness.

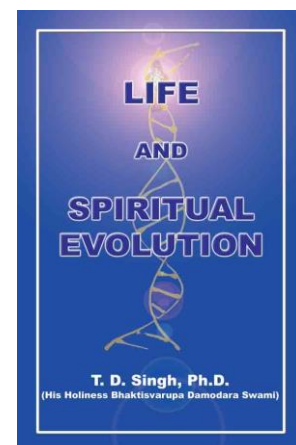
## Contents:

1. Introduction
2. Modern scientific theories of life and its origin: a brief overview
  - a) Life and chemical evolution
  - b) "Which came first: DNA or protein molecule?"
  - c) The RNA World
3. Search for an alternative paradigm of life
4. Life: spiritual particle or spiriton
5. Life and consciousness
6. Consciousness: infinite and infinitesimal
7. Mind, body, and spiritual particle, "spiriton"
8. Life, free will, and three modes of material nature
9. Biodiversity
10. Spiritual evolution – Evolution of consciousness and transmigration of the soul (Vedantic perspective)
11. Spiritual evolution, inquiry and uniqueness of human life
12. Research suggestions for examining life's origin
13. Conclusion

Also available in other languages: **Hindi, Bengali and Oriya.**

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Researchers attempted to illustrate the possibility of spontaneous generation of the chemical elements of RNA itself. What are the results?

Microorganisms exhibit very little symptom of consciousness. However, they do have. The well-known biologist George Wald, and others such as Lynn Margulis, indicated that Protozoa, single-celled animals and bacteria also possess consciousness. [Learn more!](#)

There is, in fact, no room for free will in present scientific laws and yet almost every scientist essentially assumes he has it. [Read more!](#)

Why does science have no capacity to explain life fully? Why does the life particle lie beyond the scope of modern science?

What does the **Vedanta** reveal about:

- What makes a living system grow? Why any cell starts dividing at the first place? Why a fertilized egg undergoes divisions which result in the formation of the whole body?
- Is consciousness a function of the brain? If not, where is it located?
- What is biodiversity? How is it linked to consciousness?
- What are the properties of the "spiriton" (atma) or the spiritual particle?
- What is the ultimate purpose of human life?
- What is karma? Is it eternal? How to change the results of karma?
- What is free will? Can all living beings exercise it, and why? What is the link between free will and karma?
- Why "bad things happen to good people"?
- What is the most valuable and unique quality of the human form of life, compared to other forms of life?

# Life, Matter, and their Interactions

Dr T. D. Singh

As recently listed by illustrious science journals (*New Scientist*, *Science*) and discussed among the top scientists in the world\*, here are some of the most prominent unanswered questions:

## What is life? How did life begin? Are we still evolving?

\* For example during the Symposium "Exploring the Great Unknowns", hosted by the **University of California, Berkeley**, and administered by the Metanexus Institute, 6-8 October 2005, with more than 900 people attending, and presentations by some 50 top physicists and researchers – including **20 Nobel Prize Laureates**.

- Is life an outcome of the evolution of matter, or is it a fundamentally different entity altogether?
  - How do we explain consciousness, free will, love, purpose, beauty, etc., which seem to be beyond the mere interaction of biomolecules?
  - On the other hand, if life is beyond matter, in what ways does it interact with matter, and what laws does it follow?
- 
- ✓ This book will provide you with a **practical overview** of the most important research work and discoveries of the last decades, in **biology** and **biochemistry**, exploring life and its origin. **A concise and intelligible synthesis!**
  - ✓ Will enable you to see the **weaknesses in some of the present scientific demonstrations**, so as to positively try other directions. A good training for relying on your own intelligence and insight.
  - ✓ Will pleasantly surprise you with the simple yet most **valuable alternative approach and conclusions** extracted from the **Vedanta**.
  - ✓ Will encouragingly **convince all sincere seekers** of the truth, including the most **materialistically minded** people. Help your friends and relatives realize that physical matter is not the only reality! Offer them this book!

### Contents:

1. Introduction
2. Chemistry and life: is the DNA molecule life?
3. From DNA to genome: is genome life?
4. Chemical evolution: a molecular concept of life
5. Chemical evolution: the RNA world
6. Chemical evolution: implications and challenges
7. Mystical facts of life
8. Laws beyond the material laws of nature
9. The axioms of life and matter
10. Interactions of life and matter
11. Life and matter: deeper explorations
12. Conclusion

"An **enormous gulf** lies between the few simple chemical facts known as DNA and the actual functioning of a cell." Let's closely examine this...

"It is quite possible ... that **other laws are involved** in the operation of cells **that are unknown to modern chemistry**." Feel enthused to start researching on this promising subject!

What is, in brief, the theory behind **PCR** (polymerase chain reaction)?

"Many people think that by **cloning** we can have a kind of biological Xeroxing. **But...**" Read more!

"There is in sophisticated editing of genetic sequences, a wide range of hormonal effects, and numerous other phenomena that **radically contradict simple, linear models of gene expression**." Go deeper and farther than the knowledge presented in biology textbooks!

What can be "the factors in the emergence of so many **new, highly virulent disease pathogens** in recent years, many of which are simultaneously resistant to several different antibiotics"?

"What is the molecular operation that makes us feel joy upon seeing a close friend or relative after a long time, or sad when losing a near and dear one? ... We encounter **marvels of life** at so many levels, and the theorists of evolution cannot even think of touching these points." Let's have a delightful glimpse into the marvels of life...

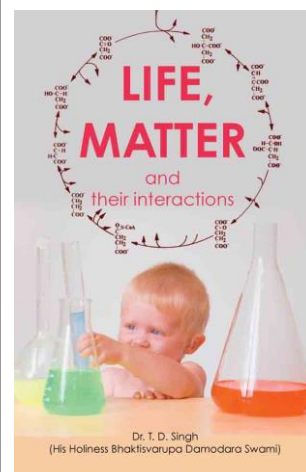
"The **interaction of life with matter** ultimately depends upon..." Upon what? Discover it in this book!

"This interaction cannot be completely described in quantitative terms, but it can be **understood and investigated**." How? With which instruments?

What are the **alternative scientific viewpoints**, from the **Vedanta**, that can enable researchers to fill the gaps left by the modern scientific approach?

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# Man and Nature – Scientific and Vedantic Perspectives

Dr T. D. Singh

"The profound study of nature is the most fertile source of mathematical discoveries."

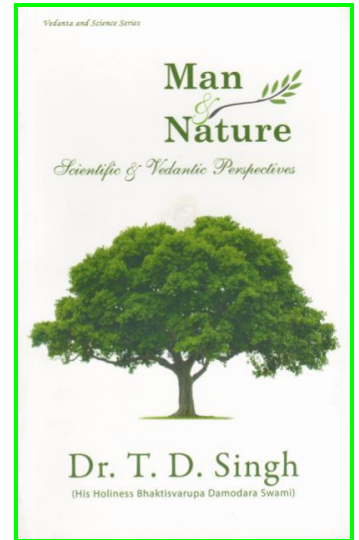
Joseph Fourier (1768 - 1830)

Renowned mathematician and physicist



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**Readership:** Science & Technology Students, Teachers, Faculty members, Teach yourself Science readers, Teach yourself Vedanta readers, Spiritual seekers

## Topics:

- ◆ The mathematization of nature: how did it happen?
- ◆ The unlimited mysteries of nature: still much more to be discovered.
- ◆ What is man's relation to nature?
- ◆ Scientific conceptions over the decades: foundations are shaken.
- ◆ The limitations of present day science is often acknowledged among scientists. This intellectual challenge can be a formidable eye-opener for the next generations of researchers: new tracks!
- ◆ Many elements of nature were forgotten over the centuries and never included in the equations. Time is ripe for clever scientists to uncover them and bring a new dimension in the study of nature!
- ◆ Preserving the environment: a common responsibility for all, and another good reason for scientists and spiritualists to join hands.
- ◆ **If you understand the problem, it is likely you will be able to fix it.**



# Mathematics & Reality

Proceedings of the 11<sup>th</sup> All India Students' Conference, 6-7 October 2018, IIT Bhubaneswar, India

With chief-guest: Prof. Ganeshi Lal, Governor of Odisha

*"The miracle of the appropriateness of the language of mathematics ... is a wonderful gift ... it will extend ... perhaps also to our bafflement, to wide branches of learning."*

– Eugene P. Wigner (1912 - 1995), Nobel Laureate in Physics

Among the distinguished speakers:

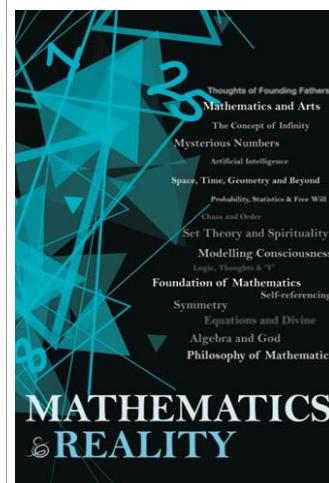
- ⊙ **Bhu Dev Sharma**, former professor of mathematics, Clark Atlanta University, USA
- ⊙ **Christoph Benz Müller**, Freie Universität Berlin, and Stanford University USA
- ⊙ **Debashis Khan**, department of mechanical engineering, IIT (BHU) Varanasi
- ⊙ **Edward N. Zalta**, Senior Research Scholar, Stanford University, USA
- ⊙ **Gregory J. Chaitin**, professor, Federal University of Rio de Janeiro, Brazil
- ⊙ **Héctor Rosario**, associate professor of mathematics, University of Puerto Rico
- ⊙ **Henk Barendregt**, Chair of Foundations of Mathematics and Computer Science, Nijmegen University, the Netherlands
- ⊙ **Jagdish N. Srivastava**, leading statistician, Colorado State University
- ⊙ **José Ferreira**, department of philosophy and logic, Universidad de Sevilla, Spain
- ⊙ **Luc Bergmans**, Sorbonne Université, Paris, France
- ⊙ **M. D. Srinivas**, Chairman of Centre for Policy Studies, Chennai
- ⊙ **Manohar Lal**, Professor at Indira Gandhi National Open University (IGNOU), New Delhi
- ⊙ **P. B. Sharma**, Vice-Chancellor of Amity University Gurgaon, founder Vice-Chancellor of Delhi Technological University
- ⊙ **Pier Luigi Luisi**, Professor, ETH Zurich, Switzerland, and University of Roma Tre, Italy
- ⊙ **Ramgopal Uppaluri**, Professor, IIT Guwahati
- ⊙ **Sarah Glaz**, professor of mathematics, University of Connecticut, USA
- ⊙ **Teun Koetsier**, Faculty of Sciences, VU University, Amsterdam, the Netherlands

Some of the topics presented:

- Is **human life** the result of mathematical processes?
- Can we see the various mathematical disciplines as forming a **single unified discipline** called Mathematics, despite their differences of concepts, methods, tools, approaches? How to analyze the past attempts?
- Is the concept of **infinitesimal** valid?
- How does **mathematical language** relate to other types of language?
- The usefulness of **mathematical paradoxes** ("logical" paradoxes and semantic paradoxes).
- The often-underestimated impact of the **axiom of choice** on the foundations of mathematics.
- **Mathematical analysis of Darwin's theory** of natural selection and evolution.
- Is **religious rational argumentation** possible? Or is religion a conversation-stopper? How to use formal logic as a common ground for metaphysical and theological discussions?
- Famous Dutch mathematician **Brouwer** his great source of inspiration: the Bhagavad Gita.
- Analysis of mathematics to understand the deep logics of the ancient Indian scriptures.
- Ultra-rational mathematical logician **Kurt Gödel** and his scientific perspectives about the Divine.
- Algorithmic and quantum information theories as the basis for a fundamental theory of **consciousness**.
- The awesome nature of **infinity**; earliest mentions, initial conceptions in various western and eastern traditions, and recent developments in computer science and geometry.
- The ancient concept of *purna* created a mathematical base for two extremes: *sunya*, or **zero**, and **infinity**.
- How to define **reality**? Can epistemological and ontological analysis provide deeper insights?
- Music, or **sound waves**, as intrinsically linked to mathematical logic, geometry and arithmetic.
- How **poetry** can be used in an innovative way by educators in the mathematics classroom.
- Examples of **ancient advanced mathematics** from Sanskrit sources, and their amazing modernity.
- Accounts of **mathematical concepts** that were used in **Kerala** much before their "discovery" in Europe.

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# Mysticism - A meeting point of science and religion

Dr T. D. Singh

Contents:

## Mysticism: what is it?

### 1) *Mysticism in science*

The mysterious quantum world  
Imaginary numbers  
Mystery behind physical constants  
Mystery in biological systems  
Mystery of time  
Mystery behind scientific discoveries

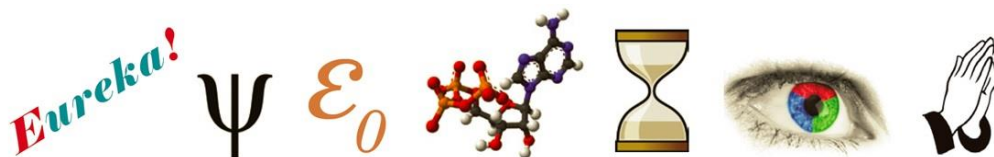
### 2) *Mysticism in religion*

Divine spark  
Spiritual senses of the soul  
Purification  
The guide of the mystic  
Unusual feelings  
The stages of a mystic

## Darwinism and its limitations

## Mysticism: a meeting point of East-West dialogue

## Spiriton – particle of life beyond genetic code



Some of the topics covered:

- What are the various mysteries in physics, mathematics, life-sciences or cosmology?
- How does a scientist or a mystic encounter them?
- What paths does he take to move ahead?
- What guides his journey and what is the future of such a seeker?
- What is an experience beyond sense perception?
- How are scientists able to connect to their intuition, receive brilliant inspiration and achieve discovery?
- A glimpse into the marvels of life.

**Dr. T. D. Singh** (His Holiness Bhaktisvarupa Damodara Swami) has a unique background.

He is a scientist with a Ph.D. in Physical Organic Chemistry from the University of California, Irvine, USA, as well as a spiritualist in the Bhakti-Vedanta tradition of India. He has authored and edited over thirty books on science and religion, including his famous dialogue with Prof. Roger Penrose: Science, Spirituality and the Nature of Reality. He is the Founder Director of the Bhaktivedanta Institute and has been one of the pioneers in advancing the dialogue between science and religion over the past three decades.

*"I enjoyed Dr Singh's spiritual views based on traditional wisdom as well as his open-minded readiness to co-integrate on common grounds our knowledge and beliefs in order to improve our humble understanding of the great complexity of life."*

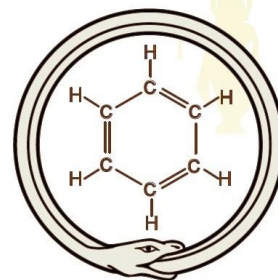
Prof. **Werner Arber**, Nobel Laureate in Physiology and Medicine, Switzerland

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## MYSTICISM

A MEETING POINT OF  
SCIENCE AND RELIGION



*Exploring mysteries in our universe from  
Imaginary numbers to ATP molecules*

**Dr. T. D. Singh**  
(His Holiness Bhaktisvarupa Damodara Swami)

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# Quantum Physics & Consciousness



## Thoughts of Founding Fathers of Quantum Physics and other Renowned Scholars

One will find great relevance and wisdom with the thoughts of the founding fathers of quantum physics (Max **Planck**, Niels **Bohr**, Werner **Heisenberg**, Erwin **Schrödinger**, Wolfgang Pauli and Louis **de Broglie**) in their own words, and then with articles by reputed scholars from all over the world:

- **Eugene P. Wigner**, Nobel Laureate in Physics, USA
- **Ian J. Thompson**, Lawrence Livermore National Laboratory, USA
- **Amit Goswami**, Center for Quantum Activism, Eugene, USA
- **Anthony J. Leggett**, Nobel Laureate in Physics, England
- **Alfred Driessen**, Emeritus Professor, University of Twente, Netherlands
- **Antonie Suarez**, Center for Quantum Philosophy, Zurich
- **Robert G. Jahn** and **Brenda J. Dunne**, Princeton University, USA
- **Bernard Haisch**, (formerly) University of California, Berkeley, USA
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- **U. M. Mehta**, Asst. Prof. Psychiatry, NIMHANS, Bangalore, India
- **Rajat Kumar Pradhan**, Dept. of Physics, Bhadrak Autonomous College, India
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## QUANTUM PHYSICS & CONSCIOUSNESS

Thoughts of Founding Fathers of Quantum Physics and other Renowned Scholars

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Spiritual seekers

"The laws of quantum mechanics itself cannot be formulated ... without recourse to the concept of consciousness."  
– Eugene P. Wigner, Nobel laureate in Physics

"Consciousness is neither a material brain product nor a dual object; it is the ground of all being in which objects exist as possibilities." – Amit Goswami, Theoretical Quantum Physicist

"There may be a whole new approach possible to unravel the perennial mysteries of what we really are and what this universe is all about." – Bernard Haisch, Astrophysicist

- Ψ Get a clearer picture of **what is quantum physics**, its conclusions and **relevance** in today's world.
- Ψ Enter the intimate thoughts of the greatest quantum physicists about **life, consciousness, free-will**.
- Ψ Discover the implications of quantum physics in **neuroscience, psychology**, and much more!

Words of Appreciation:

"I have gone through the book and it has come out very well." Dr B. N. Gangadhar, Director, NIMHANS, Bangalore



# Reality of God's Existence

Vedanta & Science Series Dr T. D. Singh

**"There is a higher power, not influenced by our wishes, which finally decides and judges."**  
Werner Heisenberg, *Nobel Laureate in Physics*

What is Ultimate Reality? Does God exist? How to know about God?

What are some of the scriptural and scientific approaches for evidence of God's existence?

What valuable data can the Vedanta impart on this fundamental issue?

- ✓ Explore some of the underlying secrets of the invisible world!
- ✓ Understand the many fundamental truths of nature.
- ✓ Gather tools to participate in the "new science" generated from the synergy between science and spirituality.

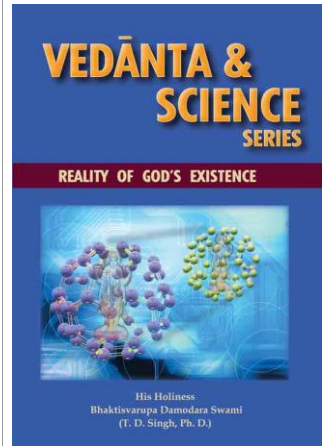
## Contents:

- A brief introduction to Vedanta: early commentaries / fivefold truths of Vedanta-sutra
- The 3<sup>rd</sup> and 4<sup>th</sup> aphorisms of the Vedanta-sutra
- Vedantic epistemology
- Direct perception (pratyaksa)
- Inference (anumana)
- Limitations of pratyaksa and anumana
- Revealed knowledge (sabda) and the top-down process
- Scientific and philosophical bottom-up approaches to God, and their limitations
- A glimpse of divine vision and action through the bottom-up approach
- Einstein's conception of God, and the limitations of the bottom-up approach
- Ontological argument for the existence of God – A philosophical bottom-up approach
- Synthesis of bottom-up and top-down approaches in Vedanta for realizing God
- A brief summary of God's attributes as revealed in the Vedantic literature.

- ♦ "A person with a scientific mind is highly inquisitive. He does not want to take things on face value. He wants to experiment and verify for himself." If this is the nature of your quest, have it satisfied here!
- ♦ "Let us try to understand how scientists are able to comprehend the presence of a Supreme Intelligence behind nature." Check the examples over!
- ♦ What aspects of God can be realized by intellectual effort alone?
- ♦ How to go even farther and deeper?
- ♦ What are the essential ingredients to receive knowledge of God?
- ♦ "There are four inherent limitations or defects of our senses in acquiring knowledge. Due to these four defects, the bottom-up approach is unable to provide perfect knowledge, especially the deeper knowledge of God." What are these limitations?  
How can one become fully eligible to receive all knowledge through direct perception of the senses?
- ♦ "It is because of the misinterpretation of scriptures and the influence of a materialistic concept of religion that people kill each other in the name of religion and God." Why is this relevant to the issue of receiving knowledge about God?
- ♦ "Logic cannot provide a final proof of anything." Why?
- ♦ "Indirectly, the foundation of science is also based on faith although we don't openly discuss about it." Find out more!

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Teach yourself Science readers,  
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Spiritual seekers

# Savijñānam – Scientific Exploration for a Spiritual Paradigm

The annual multidisciplinary JOURNAL of the Bhaktivedanta Institute

By distinguished scientists from India and the USA for the scientifically-minded

Dr T. D. Singh, Founder

"I have read it (Savijñānam, Vol. 2) more than three times, and I just cannot describe the joy I got every time I read through the pages of any of the articles published therein. As a physicist by profession and also as an interested individual in pursuit of spiritual enlightenment, I find the issues of Savijñānam very informative, educative and real friend to an eager person. Kindly accept my gratefulness."

Prof. Anil Moharir, IIT Delhi, and Former Head & Prof., Div. of Agricultural Physics, IARI, New Delhi

- ✓ **Keep in touch** with the Bhaktivedanta Institute and its latest works!
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## Volume 1

The goal of science and scientific exploration – A.C. Bhaktivedanta Swami Srila Prabhupada, Bhakti-Vedantist  
Life and its origin – A dialog with Werner Arber, Nobel Laureate in physiology  
Science is spiritual - A dialog with Karl H. Pibram, Neuropsychologist  
Life comes from life – J. N. Srivastava, Statistician  
A comparative assessment of scientific and spiritual disciplines – E. C. G. Sudarshan, Particle Physicist  
Human life and evolution of consciousness – T. D. Singh, Physical Organic Chemist

## Volume 2

Science and spiritual exploration – A dialog with Charles H. Townes, Nobel Laureate in Physics  
Life comes from life II – J. N. Srivastava, Statistician  
Science and spirituality from a Vedantic perspective – A dialogue with S. K. Mukherjee, Physical Chemist  
Vedanta and Science II, a glimpse of the origin of the universe - T. D. Singh, Physical Organic Chemist

## Volume 3-4

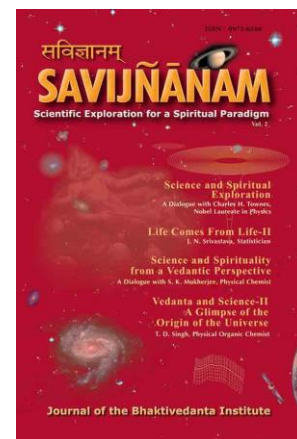
Science, spirituality and the nature of reality – A dialogue with Sir Roger Penrose, Mathematical Physicist  
Quantum physics, consciousness, and a new science of healing – Amit Goswami, Quantum Physicist  
Life comes from life IIIa, a preliminary discussion on theory of quantum reality and consciousness – J. N. Srivastava, Statistician  
Vedanta and Science III, reality of God's existence, scriptural and scientific evidence - T. D. Singh, Physical Organic Chemist

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Laser cooling of atoms and the role of a personal God – A dialog with William D. Phillips, Nobel Laureate in Physics  
The signatures of the Divine – Amit Goswami, Quantum Physicist  
Search for the role of God in scientific research – A dialogue with Werner Arber, Nobel Laureate in Physiology  
The convergence of science and religion – Charles H. Townes, Nobel Laureate in Physics  
Tributes to Dr. T. D. Singh, from Nobel Laureates and others

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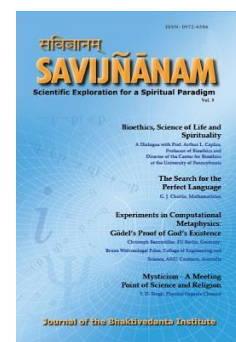
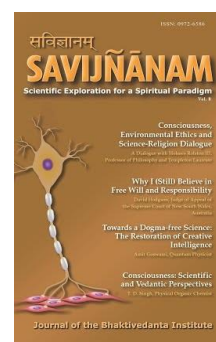
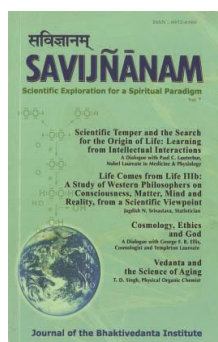
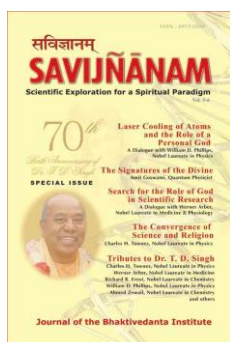
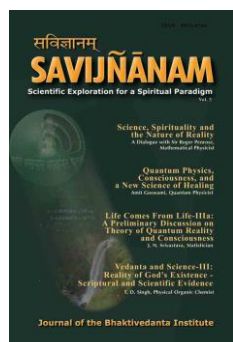
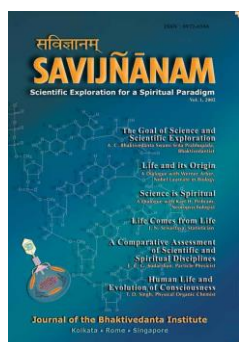
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# Science and Spiritual Quest - Conference in Tirupati

Proceedings of the 3<sup>rd</sup> All India Students' Conference, 22-23 December 2007, Tirupati, AP, India

**Guest of Honor: Prof. Roger Kornberg, Nobel Laureate in Chemistry, Stanford University, USA**

Published jointly with *Tirumala Tirupati Devasthanams* - Editors: S.C. Mishra (IIT Guwahati), S. Gosh (IIT Kharagpur), S. Nagulapalli (IAS, TTD)

Contents, from **21 biologists, physicists, chemists, mathematicians:**

## Section 1: Scientific and Spiritual Paths for Ultimate Reality

**The Knowable Nature of Scientific Truth** Roger Kornberg, *Nobel Laureate in Chemistry, Stanford University, USA*

**The Joy of Human Life** A.P.J. Abdul Kalam, *Former President of India*

**Science, Religion and Spirituality** Manmohan Singh, *Prime Minister of India*

**Science and Religion can Co-exist** Freeman Dyson, *Institute of Advanced Studies, Princeton University, USA*

**Why more of Science and Spirituality, and less of Religion, for World Progress and Peace?**

Jagdish N. Srivastava, *CNS Research Professor Emeritus, Colorado State University, USA*

**Science, Psychic Phenomena, Cyclical Cosmology and Reincarnation**

Paul Utukuru, *Professor, Johns Hopkins University, USA*

## Section 2: Machines, Mind and Consciousness

**Three Consciousness(es), Mind and Information** A.K. Mukhopadhyay, *All India Institute of Medical Sciences, New Delhi, India*

**Consciousness in relation to Bioelectric Neural Circuitry** Ayush Goyal, *Oxford University, UK*

**Some recent trends in Consciousness studies: a view from the Vedanta**

Thanigai Malai Thirumalai, *Bhaktivedanta Institute, India*

**Molecular Intelligence?** Abhishek Tiwari, *University of Illinois, Urbana-Champaign, USA*

Sushant Sharma, *Tata Consultancy Services, Mumbai, India* Ajeet K. Mall, *Analog Devices, Bangalore, India*

**Unfoldment of Collective (Cosmic) Consciousness in Indian Spiritual Traditions**

Bhaswat S. Chakraborty, *Cadila Pharmaceuticals, Ahmedabad, India*

## Section 3: Physics, Cosmology and Beyond

**Synthesis of Vedic and Modern Cosmology – A big challenge ahead**

Manoranjan Singh, *Indian Institute of Technology Kharagpur, India*

**The Dimension: Exploration from Science, Philosophy and Spirituality**

Ramgopal Uppaluri, *Indian Institute of Technology Guwahati, India* Nikhil Bhatt, *National University of Singapore*

**Mathematization of Nature – Explorations from Vedanta** Sudipto Gosh, *Indian Institute of Technology Kharagpur, India*

## Section 4: Towards a New Biology

**Molecular Evolution: A role for Quantum Mechanics on the Dynamics of Molecular Machines that Read & Write DNA**

Anita Goel, *Nanobiosym Labs, Cambridge, MA, USA*

**Intelligent Design, Fine-Tuning and Evolution Theory: A Synopsis of Competent Rational Theories**

P.K. Singh, *Institute of Technology, Banaras Hindu University, Varanasi, India*

**Biofeedback and Meditation**

Prabhakar Ballapalle, *LSI Research, Bangalore, India* Ajeet K. Mall, *Analog Devices, Bangalore, India*

**Mathematical Techniques for Study of EEG (electroencephalogram) Data recorded during Meditation**

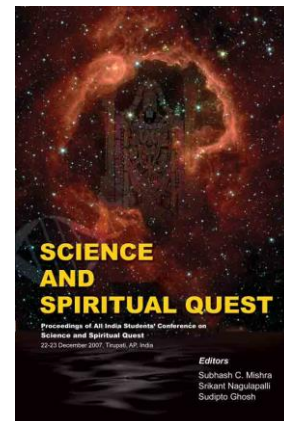
D. Narayana Dutt, *Indian Institute of Science, Bangalore, India*

- ✓ See how to **combine** the use of science and technology to a spiritual awakening, in order to contribute to the evolution of a **truly universal human civilization**.
- ✓ Envision how to **improve education** in order to simultaneously reach **excellence** and **social equity** in a true economic and ecologic national **regeneration**.
- ✓ Keep in touch with some of the **latest developments in science**, and witness how science can serve spiritual practices, **personal well-being** and **peace**.

- What is the important key to **success in science**, according to Nobel Laureate Roger Kornberg?
- To work for transforming India into a developed nation ("Vision 2020") ... Our mission is to build a **prosperous world with a value system** derived from our civilization's heritage. This is possible only through unity of minds. How to bring about this unity of minds? Read more from A.P.J. Abdul Kalam.
- The new technologies and their products are creating a growing feeling of social isolation ... suicides ... breakup of the family system ... serious threat to the environment ... feelings of insecurity ... rise of religious fundamentalism of a perverse kind which emphasizes rigid uniformity rather than harmony in a culturally pluralistic setting. The world is highly dissatisfied with the existing order. There is a spiritual vacuum. How is a balanced social **transformation** going to be achieved? See Manmohan Singh's plans.
- The most difficult thing to explain is the wide diversity in our fortunes and misfortunes, our physical features, our capacities to acquire skills and knowledge, our worldly desires, our emotions, health concerns about ourselves and our kith and kin, etc. How to resolve this dilemma, as presented by Paul Utukuru?
- A self-organizing system responds intelligibly to an appropriate stimulus. However, till now we, as scientists, have ignored "self" and given emphasis on the organizational aspect of the system. ... The science of **consciousness** is already there expressed not in the language of science but in the language of mystics. Unravel some of the mysteries of consciousness, with the specialist A.K. Mukhopadhyay.
- Amputees can control **robotic** limbs just by thinking. Circuitry implanted in the body is not science fiction, but an everyday fact of life. ... We might one day be able to transmit our emotions and experiences in the shape of brain waves to friends via a wireless transceiver. Learn more with Ayush Goyal.
- Discover how to make the best use of the written resources on vedic **cosmology**, so that it can sustain the modern research on cosmology, broaden the horizons of the limited human brain, inspire new directions for more successful investigations, and help solve the numerous still unresolved mysteries of the universe.
- Better understand and conceptualize **time dimension**, and anticipate research in this field!
- Find out why **meditation** is gaining popularity as an alternative or complementary therapy, and how it can efficiently help one regain **health**!

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Teachers, Faculty members,  
Engineers, Technicians,  
Teach yourself Science readers,  
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Spiritual seekers



# Science and Spiritual Quest - Conference in Trichy

Proceedings of the 4<sup>th</sup> All India Students' Conference, 27-29 December 2008, NIT Tiruchirapalli, TN, India

Published jointly with National Institute of Technology - Editors: S.C. Mishra (IIT Guwahati), S. Gosh (IIT Kharagpur), M. Chidambaram (NIT)

This conference received a grant from the [Department of Science and Technology \(DST\)](#), [Govt. of India](#)

Extract of the contents from **28 eminent speakers, biologists, physicists, chemists, mathematicians:**

## Section 1 - Science and Spirituality: an Overview

### Science, Mathematics, Consciousness, Reality, Rationality and Spirituality

Jagdish N. Srivastava, *CNS Research Professor Emeritus, Colorado State University, USA*

### Epistemology of the Exact Science(s): Mathematical Knowledge vis-à-vis Spiritual Knowledge

Héctor Rosario, *Associate Professor, Dept. of Mathematical Sciences, University of Puerto Rico, South America*

### Integration of Finite with the Infinite

S.M. Amanullah, *General Manager, Engineers India Limited, New Delhi*

### Strengthening Ethical and Moral Foundation in University Education – Role of Spirituality

P.B. Sharma, *Director, Delhi College of Engineering, Delhi, and Ex-Vice Chancellor, Rajiv Gandhi Technological University, Bhopal*

## Section 2 - Physics, Cosmology, and Beyond

### The coming Paradigm Shift in Science: View from a Quantum Physicist

Amit Goswami, *Professor Emeritus, Dept. of Physics, Univ. of Oregon, Eugene, USA*

### Theistic Sankhya Philosophy as propounded by Saint Kapila in Bhagavata – a Modern Scientific Perspective

Sudipto Gosh, *Dept. of Metallurgical & Materials Engg., IIT Kharagpur, India*

### The Holy Bible and Modern Astronomy

K. Smiles Mascarenhas, *Coimbatore Inst. of Engg. & Information Technology, Coimbatore*

## Section 3 - Machines, Mind and Consciousness

### 'Local' and 'Nonlocal' Science

A.K. Mukhopadhyay, *All India Institute of Medical Sciences, New Delhi, India*

### Artificial Intelligence, Neuroscience, and Beyond

V. Gopalakrishnan, *Dept. Computer Sc., NITT & Former Executive Director, BHEL, Trichy*

## Section 4 - Life and its Origin: Scientific and Spiritual Perspectives

### Genetic Immortality: Conquering Cellular Senescence

Ayush Goyal, *Computational Biology Group, Oxford University, UK*

### Human Devolution: a Vedic Alternative to Darwin's Theory

Debashis Khan, *Dept. of Mechanical Engg., IT-BHU, Varanasi*

### Extraordinary Animal Behaviors that Defy Evolution

István Tasi, *Vedic Science Research Center, Budapest, Hungary*

### Death, Consciousness, and the Spiriton (Soul) Axiom

Ramgopal Uppaluri, *IIT Guwahati* Ramjee Repaka, *NIT Rourkela*

## Section 5 – Science in Ancient India

### Space and Time Dimensions in Indian Thought

T.H. Chowdary, *Center for Telecom Management & Studies, Hyderabad, & Former Deputy Director General, Dept. of Telecommunications, Govt. of India*

### Spirituality and Modern Science

N. Gopalakrishnan, *PhD (Biochemistry), Indian Institute of Scientific Heritage, Thiruvananthapuram*

### The Unlimited into Limited

A.V. Ramana Dikshitulu, *PhD (Molecular Biology), Tirumala Tirupati Devasthanams (TTD), Tirupati, A.P.*

## Section 6 – Towards a Spiritual Technology: Health, Environment, Management, Economics, and Spirituality

### Quantum Physics, Ayurveda and Spirituality

Rama Jayasundar, *Dept. of NMR, AIIMS, New Delhi*

### Sustainable Development from the Vedantic Perspective

P.K. Singh, *Dept. of Civil Engg., IT-BHU, Varanasi*

### Science and Spirituality in Human Healing Outcomes

B.M. Hedge, *Former Vice-Chancellor, Manipal Acad. of Higher Education, & Affiliate Prof. of Community Health, Univ. Northern Colorado*

### Spiritual Capital, Gandhi and Inter-Faith Harmony – Nation Building, Education and Social Peace

Ramnath Narayanswamy, *Dept. of Economics and Soc. Sc., IIM Bangalore*

### Effects of Prayer on the Human Body and Mind

P. Ballapalle, *LSI Research, Bangalore* K. Nayak, *GE India Technology Center, Bangalore* A.K. Mall, *Analog Devices, Bangalore*

### The Complete-Person Paradigm: a New Win-Win Model for Promoting Holistic Growth in Corporate Management

C.R. Seshadri, *Thermo-Fisher Scientific, India*

- ✓ Read and discover what is carefully **hidden** and too rarely discussed about science and scientists.
- ✓ Find precise and technical answers to your fundamental questions about the **end of life** and death.
- ✓ Receive threads of wisdom in the fields of evolutionary biology, mathematics, philosophy, economics, neuroscience, artificial intelligence, quantum physics, cosmology, archeology, etc.

**Why do organisms age and die?** Go farther than the various theories proposed (which are presented along with their fallacies).

Absent from the textbooks is that the famous Nobel Laureates **Pierre and Marie Curie** were part of a large group of prominent European scientists, including other Nobel Prize winners, who were jointly conducting **paranormal research**. ... In 1906, Pierre wrote: "I can't doubt it any more." Find out more!

Deep inside the tunnels, in deposits of early Eocene age (about **50 million years** ago), miners found **human bones** and artifacts. The discoveries were carefully documented by the chief government geologist of California but **we do not hear** about these discoveries today. If the facts did not fit the theory of human evolution, they had to be set aside.

What evidences from Archeology, Paleontology, Biochemistry, Genetics, and Developmental Biology contradict the Darwinian theory of human evolution?

Apparently it is not at all surprising that ants behave like ants, etc. **But how do the animals know when and how they should do what they do?**

See for yourself **various Vedic postulates that were discovered before the advent of modern mathematics, physics and astronomy!**

Great scientists like Schrödinger, Niels Bohr, Oppenheimer and John Wheeler were also Upanishad scholars. Emerson and Schopenhauer were its great admirers.

How is it that since the industrial age, a strange concept appeared (and continues till date): **treating diseases by suppressing their symptoms?**

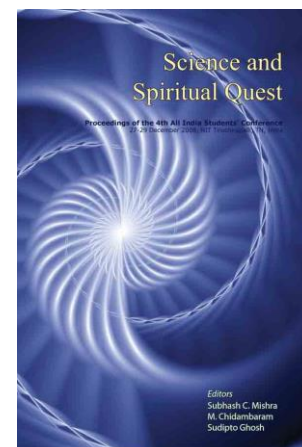
Ayurveda's unbroken chain of experience indicates that its therapies have been tested by thousands of physicians on millions of patients. Its theories have thus stood the test of time.

Each rogue cell is a potential future **cancer**. What are the main reasons that encourage or discourage those rogue cells to blossom into a deadly cancer?

What are the results of **prayers** for chronic or terminal illnesses – particularly heart disease, cancer, headaches, muscle pains, anxiety, and depression?

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# Science and Spiritual Quest - Conference in Allahabad

Proceedings of the 5<sup>th</sup> All India Students' Conference, 15-17 January 2010, MNNIT Allahabad, UP, India

Published jointly with: Motilal Nehru National Institute of Technology

Editors: Subhash C. Mishra (PhD, IIT Guwahati), Sudipto Ghosh (PhD, IIT Kharagpur), Arun B. Samaddar (PhD, MNNIT Allahabad)

Extract of the contents:

## The Significance of Spirituality in Human Destiny

Jagdish N. Srivastava, *CNS Research Professor Emeritus, Colorado State University, USA*

## Science and the Inescapability of Metaphysics

Robert A. Delfino, *Assistant Professor of Philosophy, St John's University, New York City, USA*

## Concept of Relativity in Light of Vedic Scriptures

Suresh Bhalla, *Dept. of Civil Engineering, IIT Delhi, & Rupali Suresh, Dept. of Physics, University of Delhi, India*

## Embryology and Consciousness

Ramgopal Uppaluri, *Dept. of Chemical Engg., IIT Guwahati, India*

## Cosmic Biology

Chandra Wickramasinghe, *Cardiff Center for Astrobiology, Cardiff University, UK*

## Puranic Time and the Archeological Record

Michael A. Cremonese, *Center for Vedic Science Research, Los Angeles, USA*

## Abiogenic Origins of the First Living Cell

Ayush Goyal, *Computational Biology Group, University of Oxford, UK*

## Ethical Issues for Scientists and Engineers

K. L. Chopra, *Former Director, IIT Kharagpur, & President, Society for Scientific Values, India*

## Leadership Skills – Management and Vedantic Perspectives

C. R. Seshadri, *Vice President – Strategic Business Development, Spinco Biotech Pvt. Ltd, India*

## Metals in Ancient India

S. C. Panigrahi, *Dept. of Metallurgical & Materials Engineering, IIT Kharagpur, India*

- ✓ **Facilitate your research and work in science or technology, thanks to the specific knowledge covered in the Vedic scriptures.**
- ✓ **Develop your innate potential to achieve personal and professional excellence.**
- ✓ **Enter the holistic dimension of health, and become proactive in your well-being.**

◆ What about fetal learning and cognition within the womb? What can we learn in this regard from the Bhagavat-Purana?

◆ The biggest blow to medical science has been ignoring the all powerful human mind from the diagnostic paradigm. In fact, most diseases originate in the mind and also get cured through the mind.

◆ Albert Einstein warns us: "... Otherwise ... the student will more closely resemble a well trained dog than a harmoniously developed person". What is the secret here for "a happy and dignified life"?

◆ Do we know for certain, that science does or can give us complete knowledge of reality? Or is this merely an assumption?

If it is claimed that it is not an assumption, then it must be knowable by scientific means, since ontological scientism entails epistemic scientism.

◆ How do you set up a scientific experiment to demonstrate that science or a particular scientific method gives an exhaustive account of reality?

◆ We know that planets are changing, stars are changing, galaxies are changing, and the universe as a whole is changing very quickly. Everything around us including our body is changing. What about mind, senses and intellect which are our knowledge acquiring agencies? A keen observer will find that his senses are changing with age and health; his mind, the seat of thought and emotion is changing very rapidly; his intellect, the faculty of logic, reason, discrimination, and conclusion is also changing with the change of his knowledge. The knowledge acquired by the use of changing agencies cannot meet the requirements of changeless ultimate reality. Is there any entity which we know without the use of our senses, mind and intellect, and does that entity remain unchanged under all conditions and at all time to be called ultimate reality? Let us examine this.

◆ According to the Vedas, knowledge can be acquired in ten different ways. Out of these, what are the primary ones, which include all others?

◆ What are some examples from modern science of how chemists, biologists, and others can perceive the presence of God?

◆ Vedic literature enshrines scientific and technical knowledge, including time dilation or relativity. Read examples and get references!

◆ According to Vedanta, what is the purpose behind the manifestation of the material world?

◆ Support for the idea that life originated on Earth in a primordial soup is beginning to wear thin, in the light of geological and astronomical evidence.

◆ Modern historical sciences share the basic Judaeo-Christian assumptions about time (linear and vectorial time); it is tacitly accepted and hence critically unexamined. It strikingly differs from that of the ancient Greeks and Indians (cyclical time). What does this involve? See how with an open mind and an enlarged vision, scientists can bring about new lights, multiple innovative interpretations, deeper scientific understandings, and among other things: a remarkable revolution in archeology!

◆ The improbability of the abiogenic theory of life originating from chemicals is verified scientifically. Read this brilliant yet accessible step by step demonstration!

◆ One can study the healthy irregularity (healthy chaos) in the body to see if the patient is healthy, becoming unhealthy or is seriously ill by demonstrating the degree of laxity in the system. For example, the heart rate variability seen in a healthy heart is almost absent in the advanced disease state. How to improve your diagnosis?

◆ This approach is clinically very effective and gives a distinctive approach to the ayurvedic practice and results that outscore those of Western medicine, not only in the treatment of complex diseases but more importantly in healthy living. Ayurveda shows how a textual theory can translate successfully into the best of practices.

◆ How are the instructions from religions a valuable source of knowledge for our responsible living in this Planet Earth? Why is life so precious?

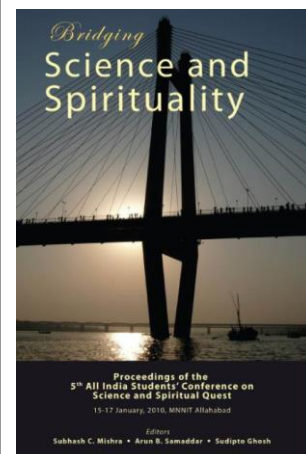
◆ What are the top 3 attributes for a good leader? How to transform your colleagues and the organization from being merely effective to achieving greatness?

◆ We were given magnificent birth gifts-talents, capacities, privileges, intelligence, opportunities that remain largely unopened except through ... Read more!

◆ The evidence of use of metals in Ancient India can be divided into two sources: literature and archeology. Discover amazing truths!

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# Science and Spiritual Quest - Conference in Delhi

## Integrating Capabilities with Values

Proceedings of the 6<sup>th</sup> All India Students' Conference, 12-14 March 2011, DTU Delhi, India

Published jointly with: Delhi Technological University, Delhi

Editors: *Subhash C. Mishra (PhD, IIT Guwahati), P. B. Sharma (PhD, DTU, Delhi), Sudipto Ghosh (PhD, IIT Kharagpur)*

Inaugurated by Smt. Pratibha Devisingh Patil, President of India



"Science and Spirituality have many commonalities. Both require a disciplined approach. Both require open, questioning minds. It is the interplay between science and spirituality that provides a balance between material advancement and developing a deep consciousness. ... I congratulate the organizers of this conference."

Among other dignitaries and renowned speakers:

- Nobel Laureate Dr. Werner Arber, Basel, Switzerland
- Smt. Sheila Dikshit, Chief Minister, Delhi
- Dr. Narendra Jadhav, Member Planning Commission, GOI
- Prof. P.B. Sharma, Vice Chancellor, DTU, Delhi
- Dr. Vishwa Mohan Katoch, Secretary to Govt. of India, Dpt of Health Research & Director General, ICMR
- Padma Shri Vijay K. Saraswat, Director General, DRDO, Ministry of Defense, New Delhi
- Padma Bhushan Ms. Manju Sharma, Ex-Secretary, Dept. of Bio-Technology, New Delhi

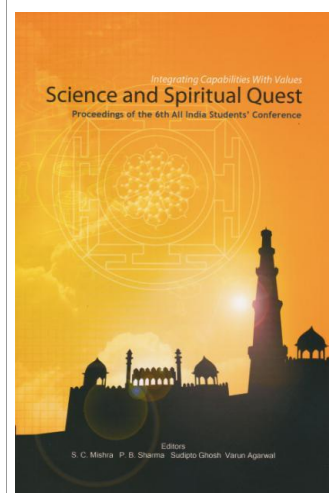


### Some of the topics presented:

- The importance of a modern education based on the **right values**. *Smt. Pratibha Devisingh Patil, President of India*
- The privilege of the profession (science and technology): the "**privilege to serve and excel**" rather than the "privilege to earn and to exploit". *Prof. P.B. Sharma, Vice Chancellor, DTU*
- Even today the scientists have **no precise insights into the origin** of things, including those of matter, of the universe and of life, although possible models can be made. ... It is interesting for us to compare relevant basic contents of **early written texts** with today's available scientific knowledge on the inanimate and the animate worlds. *Nobel Laureate Dr. Werner Arber, Basel, Switzerland*
- The Shiva-Shakti concept of **sustainability and harmony**. *Dr B. S. K. Naidu, Chairman, Institute of Energy Management & Research, Gurgaon, NCR, India*
- From advanced brain cancer to complete cure – My **journey to wisdom**. *Prof. S.C. Mishra, IIT Guwahati & Chairman, AISSQ*
- Spirituality for Science and Technology Professionals.
- Ancient India's successful educational system.
- Scientific exploration for God – Ways of acquiring **scientific knowledge about God**.
- **Quantification of consciousness** with scientific instrumentation.
- The effects of **prenatal sound** and music on the fetus – Scientific and Vedantic perspectives.
- Can we be aware of something without the use of our five senses nor the mind? Why and how?
- The mysterious and noticeable changes that take place when someone passes from a living state to death.
- How to help human beings become **more human** and **humane**?
- The role of science and spirituality in **strategic decision making**.
- **Morality** and **profitability**: can they shake hands?

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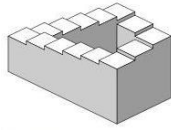


# Science, Spirituality and the Nature of Reality

A unique Discussion between Sir Roger Penrose and Dr T. D. Singh

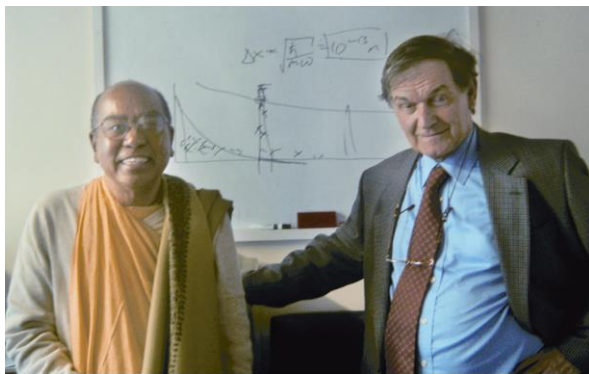
The **fascinating genius** and most famous mathematical physicist of our times!

Sir Roger Penrose (1931-), OM (Order of Merit), FRS (Fellow of the Royal Society), Oxford, UK.



**Known for:** Penrose tiling, Twistor theory, Geometry of spacetime, Cosmic censorship conjecture, Weyl curvature hypothesis, Moore-Penrose pseudoinverse, Newman-Penrose formalism, Penrose stairs, Penrose inequalities, Orch-OR (Orchestrated Objective Reduction).

**Notable awards:** **Wolf Prize** (1988), **Dirac Medal** (1989), **Copley Medal** (2008).



- ✓ **Discover** the **original** personal views and brilliant ideas of the new Einstein of our century, enriched with Dr T. D. Singh's exceptional **wisdom** and scholarship on Vedanta.
- ✓ **Explore** the nature of the **ultimate reality**, in the footsteps of Plato, Newton, Tagore or Einstein, but with **renewed insights, born from the synergy** of science and spirituality.
- ✓ **Marvel** at a wide range of topics, from **consciousness** to **cosmology**, and from **scientific mystery** to **mathematical beauty**. For your personal development and enlivenment!

## The Author

Dr T. D. Singh (1937-2006): International Director of the Bhaktivedanta Institute. Received his Ph.D. in Physical Organic Chemistry from the University of California, Irvine, and contributed many papers in science Journals. Underwent Vaishnava Vedanta Studies (1970-77) under Srila A. C. Bhaktivedanta Swami Prabhupada. Established a network of schools in North-Eastern India. Started building the University of Bhagavata Culture in Imphal, Manipur, India.

**Bhaktivedanta Institute** is Dr Singh's non-profit organization working since 1974 for the **synergy of science and spirituality**, for a **deeper understanding of the nature of reality** and for the **welfare of humanity**.

Headquartered in Kolkata, the Institute has several branches in India, as well as in the USA, Italy, Singapore and Indonesia.

In order to advance a constructive dialog and uncover new exploratory platforms, the members of the Institute:

- Organize conferences and symposiums in India and around the world,
- Meet and interview renowned scientists (among them many Nobel Laureates), scholars and leaders,
- Publish books and journals, and perform educational outreach.

Presentations and seminars have been already conducted in many illustrious campuses of India (IIT Mumbai, Kanpur, Kharagpur, Chennai, Guwahati, Delhi, Trichy), USA (Stanford, Colorado, Atlanta, San Francisco), Iran, Spain, Italy, South Africa, Brazil, Peru, Fiji, Indonesia, etc.

"Dr T. D. Singh represents for me a perfect role model how citizens and in particular academics should think, feel and behave.

He has been building bridges between groups of society and between different schools of thought.  
He has bridged the gaps between science and philosophy. He showed to us what true humanness is."

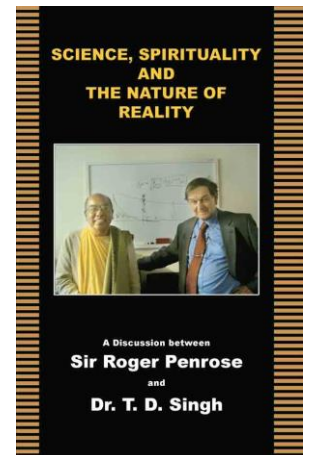
*Prof. Richard E. Ernst, Nobel Laureate in Chemistry, Switzerland*

"I enjoyed Dr Singh's spiritual views based on traditional wisdom as well as his open-minded readiness to co-integrate on common grounds our knowledge and beliefs in order to improve our humble understanding of the great complexity of life."

*Prof. Werner Arber, Nobel Laureate in Physiology and Medicine, Switzerland*

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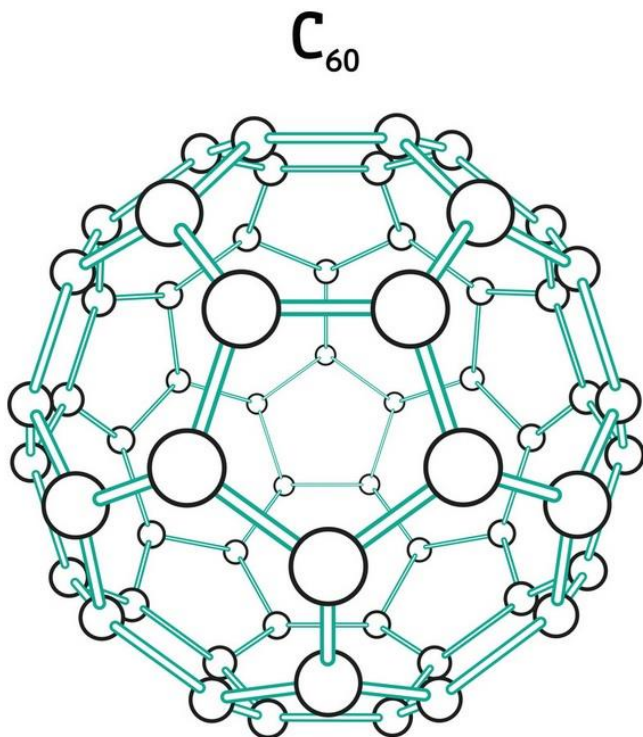
**Readership:**  
Science & Technology Students,  
Graduates engaged in research,  
Teachers, Faculty members,  
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Teach yourself Science readers,  
Spiritual seekers

# Scientific Exploration about God

Dr T. D. Singh, Founder Director, Bhaktivedanta Institute,  
and  
Dr Sudipto Ghosh, Professor, IIT Kharagpur

*"The first gulp from the glass of natural sciences will turn you into an atheist,  
but at the bottom of the glass, God is waiting for you."*

– Weiner Heisenberg, Nobel Laureate in Physics

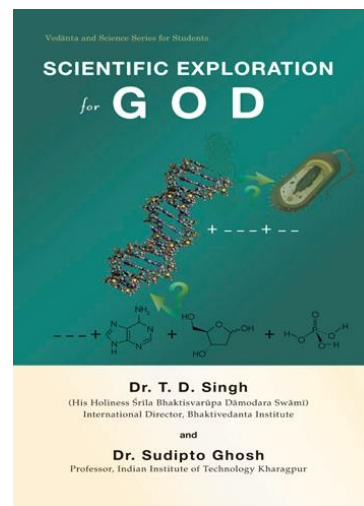


Some of the topics covered:

- Can scientific pursuit lead to a definitive conclusion regarding the existence of God?
- What are the three main powerful ways of acquiring information, including knowledge about God, according to the Vedas?
- How much can we know by our own intellectual efforts? The four limitations of our human senses.
- Can our present scientific knowledge explain consciousness, free will, happiness, etc.?
- What type of "new science" could study the still mysterious phenomena?
- How to receive knowledge through inspiration?
- Molecular wonders of nature.
- The astonishing aspect of the whole creation, which could appear and be maintained thanks to extremely precise fundamental constants of the universe.
- Ascending and descending approaches for realizing God.
- The role of faith in scientific investigations.
- What does the Vedanta teach about God? How to come closer to God and develop pure Love?

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Vedanta, Veda, Hinduism

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Science and Technology Students,  
Teachers, Faculty members,  
Teach yourself Science readers,  
Teach yourself Vedanta readers,  
Spiritual seekers

# Scientist and Saint

## An Introduction to the Life and Works of Dr T. D. Singh

Learn about the amazing life of T. D. Singh, a scientist with a Ph.D. in Physical Organic Chemistry from the University of California, Irvine, USA, and a spiritualist in the Bhakti-Vedanta tradition of India.

A great source of inspiration!

**Contents:** Tributes – Messages of appreciation and friendship received from:

Charles H. Townes, *Nobel Laureate in Physics*  
Richard R. Ernst, *Nobel Laureate in Chemistry*  
Werner Arber, *Nobel Laureate in Physiology and Medicine*  
Ahmed H. Zewail, *Nobel Laureate in Chemistry*  
William D. Phillips, *Nobel Laureate in Physics*  
William Grassie, *Founder, Metanexus Institute*  
William E. Swing, *Founder, United Religions Initiative*  
Jagdish N. Srivatsava, *Colorado State University*

An introduction to the life and works

Childhood  
Journey into the World of Science  
The Turning Point  
A Pioneer and Visionary of Science-Spirituality Dialogue and World Peace  
Life in Exploration of Life  
Balances Education for Youth  
Dialogues with World Opinion Leaders  
Conferences  
Publications  
World Peace  
Art and Culture  
A Loving Personality

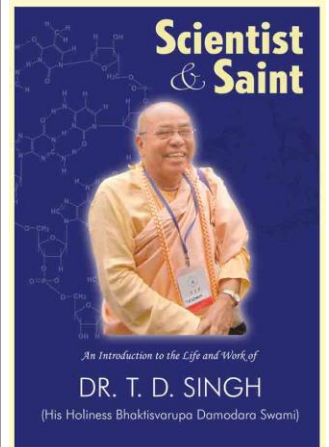
Within a short span of a few decades, Dr. T. D. Singh's unparalleled efforts revolutionized the field of science and spirituality, and initiated, inspired and guided numerous practical peace measures around the world.

His natural scientific aptitude and rigor, his in-depth Vedantic erudition and profound spiritual realization, his commitment to help humanity, his introspective poems and illuminating books, his devotional songs and prayers, his awe-inspiring cultural arts presentations, and above all, his irresistible charming personality of love, care and compassion for all beings are a stunning combination of diverse matchless qualities treasured in him carefully by the Divine.

Dr. Singh's life, works and teachings mark a new chapter in humanity's quest for Ultimate Reality.

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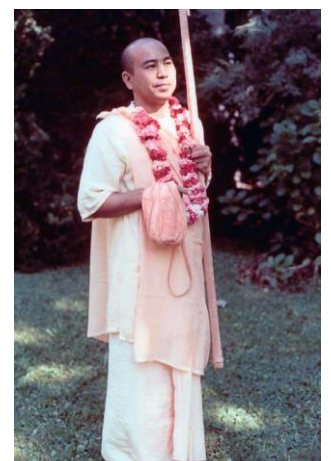
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Yoga, Philosophy, Religions,  
Spiritual seekers,  
Non-violence, World Peace  
and Harmony seekers





# Seven Nobel Laureates on Science and Spirituality

Dr T. D. Singh, Editor

"The publications of the Institute such as 'Seven Nobel Laureates on Science and Spirituality' have made a **remarkable impact** on the minds of the students of modern science and have filled a long felt need to **provide the bridge between science and spirituality.**"

Prof. P. B. Sharma, Principal, Delhi College of Engineering, & Founder Vice-Chancellor, Rajiv Gandhi Technical University, Bhopal

7 Nobel Laureates together in one publication, bringing **new lights** to Science and Spirituality!

These seven great contemporary thinkers explore important **areas of human concern** such as,

- the role of Science and Religion in the search for the **Origin of Life**,
- the study of the **nature of Consciousness**,
- understanding the **purpose behind the Universe**,
- the **role of Faith and Ethical Challenges**.

Contents:

Dr T. D. Singh – Introduction

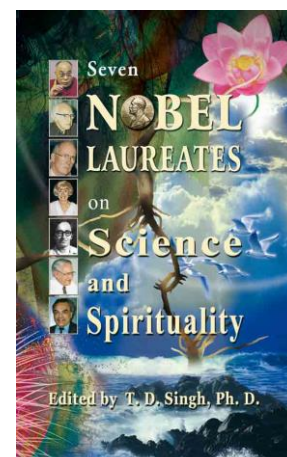
1. His Holiness **The Dalai Lama**, Nobel Laureate in Peace – The need for a synthesis
2. Prof. **George Wald**, Nobel Laureate in Physiology and Medicine – The cosmology of life and mind
3. Prof. **Charles Townes**, Nobel Laureate in Physics, and Dr T. D. Singh – Science, values and beyond
4. Mrs. **Betty Williams**, Nobel Laureate in Peace – Science and religion for peace and the human family
5. Prof. **B. D. Josephson**, Nobel Laureate in Physics – Science and religion: how to make the synthesis?
6. Prof. **Richard R. Ernst**, Nobel Laureate in Chemistry – Science in the third millennium: expectations between hope and fear
7. Prof. **Werner Arber**, Nobel Laureate in Physiology and Medicine, and Dr T. D. Singh – Life & its origin

*These dialogues and essays were earlier published under different titles by the Bhaktivedanta Institute.*

Also available in: **Hindi, Bengali, Oriya, French, Italian, Indonesian.**

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Vedanta, Veda, Hinduism

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**Quality content! Boost your creativity**, and delineate **new horizons for your personal research!**  
The following quotes and questions will give you a sample of the **knowledge** you will acquire.

Why and how has **faith** always been **present and important** in **science and technology**?

Examining the atom... What is the demonstration of Prof. George Wald that allows him to conclude: "That is the only reason why anything in this universe stays put, that our universe has **solid structures**; and that the small and large molecules that constitute living organisms maintain **definite shapes** and **fit together** as they do."

"By far the most important molecule to living organisms is water. **No water, no life, anywhere in the universe.** I think that water is also the strangest molecule in the whole of chemistry, and its strangest property is that ice floats. **If ice did not float I doubt that life would exist in the universe.**" How did Prof. Wald prove it?

"I had the joy of knowing Wilder Penfield, the great Canadian brain surgeon. ... For some years **Penfield had hoped to find a center of consciousness in the brain.**" What enabled Prof. Penfield to later abandon this proposal and write that "**mind and brain are two semi-independent elements**"?

"Some of my scientist friends have on occasion defined **religion** as dealing with those things which **you can't prove. I don't agree.**" **Why** does Townes think like this?

"If we assume God does exist, then **why hasn't He appeared in scientific experiments?**" What are Prof. Josephson's explanations on this point?

"Perhaps we should be taking God into account in science. **What would a science look like which had God in there** playing a part, accounting thereby for **particular phenomena?**" Read Josephson's lucid and brilliant developments!

"Using meditation as an **observational tool.** ... Using **our own nervous systems as instruments** to observe the domains in which God works." Read more!

"I am convinced that the **Indian science community** has a very **essential role to play.** India is in a unique position in many respects." What are these, for Prof. Ernst?

"I work with microorganisms, mainly bacteria. ... The existence of a **spiritual soul**, with which organisms does that **start?**" Could you discuss this with Prof. Arber?

"For me, this is a very good way for a strain of bacteria to **acquire novel genetic information** which is available elsewhere."

What is the explanation from Prof. Arber, DNA specialist?

Can you explain the mechanism of how the bacterial cell can have a **built-in system** to provide **restriction as well as protection** simultaneously?

And what is the important philosophical implication?

"**Mutation is not a mistake or an error in replication; it is a natural process.**" Why does evolution not occur on the basis of errors or accidents...?

# Tattvajijnāsā – Scientific and Spiritual Quest for Ultimate Reality

The eye-catching magazine of the Bhaktivedanta Institute

Accessible to all – Ideal for the young science students

*Dr T. D. Singh, Founder*

"Tattvajijnāsā guides the students in making the topmost scientific inquiry and spiritual advancement. I heartily congratulate Dr T.D. Singh for bringing out Tattvajijnāsā for the students."

*Prof. S. K. Dube, Director, IIT Kharagpur*

"I am sure that the Tattvajijnāsā will inspire the student community to discover the meaning of life and commit them to build a better tomorrow."

*Prof. P.B. Sharma, Principal, Delhi College of Engineering, Delhi*

- ✓ Keep your mind healthy and young with these thought-provoking articles!
- ✓ Explore various facets of science and spirituality in a straightforward and easy-to-understand way.
- ✓ Gain realizations from illustrious researchers who are both scientists and religious practitioners, and very glad to be so!

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*Dr. Robert Mah, Director, Smart Systems Research Laboratory, NASA*

## ✚ Astrophysics – An Indispensable God,

*Dr. Bernard Haisch, Astrophysicist, California*

## ✚ Eternal Axioms, Dr. T. D. Singh, Founding Director, Bhaktivedanta Institute

## ✚ Michael Faraday, Scientist and Man of Religion,

*Dr. Ahindra Ghosh, Former Professor, Indian Institute of Technology Kanpur, India*

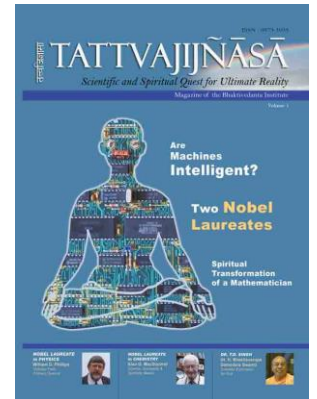
## ✚ Science of Karma,

*Dr. Debashis Khan, Assistant Professor, Department of Mechanical Engineering, IIT(BHU) Varanasi, India, &*

*Dr. Sandeep Kumar, Professor, Department of Mechanical Engineering, IIT(BHU) Varanasi, India*

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# The Science of Inter-Religious Dialogue

Dr T. D. Singh

Addressing the essence of **interfaith** dialogue, Dr Singh presents in this volume the fundamentals of the science of inter-religious harmony and understanding, thus **broadening the horizons of our minds and hearts**.

A beacon of profound **wisdom**, that has already initiated many practical **peace measures** all over the world!



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2. Understanding the Essence: Touching the Roots of Religious Teachings
3. Building Bridges from the Heart
4. Experiencing the Sacred
5. Synthesis of Science and Spirituality
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8. Towards a Global Peace Plan
9. Visions for a Better World

This book will allow you:

- ✓ To enrich your faith and your vision about interfaith,
- ✓ To strengthen and deepen your commitment towards conflict resolution, harmony and world peace,
- ✓ To give shape to your hopes for a better world and a rewarding life.

## The author

Dr T. D. Singh (1937-2006): Founder Director of the Bhaktivedanta Institute, a non-profit organization working since 1974 for the synergy of science and spirituality, with branches in India, as well as in the USA, Italy, Singapore and Indonesia.

Underwent Vaisnava Vedanta Studies (1970-77) under Srila A. C. Bhaktivedanta Swami Prabhupada. Founding member of the **United Religions Initiative** (URI).  
Founder President of URI's Manipur (North-Eastern India) **Cooperation Circle**.

A unique personality whose life-long works focused on synthesizing science and spirituality, and **promoting interfaith harmony for the welfare of humanity**. A landmark figure on the world stage, having initiated, inspired and guided **numerous practical peace measures around the world**.

"My hearty congratulations to Bhaktivedanta Institute, Kolkata, for their noble cause in imparting spiritual awareness in different parts of the country; to make this era spiritual in holistic manner."  
*Prof. Abha Singh, Joint Director, Amity Institute of Behavioural and Allied Sciences, Noida, India*

"Dr Singh's contributions to the understanding of religion and the relationship between science and religion have been important and will have a long-standing influence."  
*Charles H. Townes, Nobel Laureate in Physics, USA*

"Dr T. D. Singh represents for me a perfect role model how citizens and in particular academics should think, feel and behave. He has been building bridges between groups of society and between different schools of thought. He has bridged the gaps between science and philosophy. He showed to us what true humanness is."  
*Richard E. Ernst, Nobel Laureate in Chemistry, Switzerland*

"His work in promoting peace and conflict resolution in India and around the world was every bit as important as his work on religion and science."  
*William Grassie, Founder, Metanexus Institute, USA*

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The Science of  
Interreligious Dialogue



DR. T. D. SINGH  
(His Holiness Bhaktivarupa Damodara Swami)

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persons participating (or  
desiring to participate) in  
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positive actions for more  
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Spiritual seekers,  
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# Thoughts on Synthesis of Science and Religion

Editors: T. D. Singh & Samaresh Bandyopadhyay

Officially released as a part of the **Indian Science Congress**, with President of India A.P.J. **Abdul Kalam**.

**“A valuable compilation ... (on) the synthesis of science and religion ... This volume will decidedly pave way for such integrated approach.” - *The Hindu*, India's leading national newspaper**

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- Prof. **Freeman Dyson**, Physicist, Templeton Prize, Princeton University, USA.
- Prof. **Richard R. Ernst**, Nobel Laureate in Chemistry for NMR Spectroscopy, Switzerland.
- Prof. **Amit Goswami**, Physicist, Senior Researcher at Institute of Noetic Sciences, India and USA.
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- Prof. **Charles H. Townes**, Inventor of Laser and Maser, Nobel Laureate in Physics, USA.
- Ms. **Betty Williams**, Nobel Laureate in Peace, Ireland.
- Dr. **Crystal Woodward**, Author, daughter of R. B. Woodward, Nobel Laureate in Chemistry.

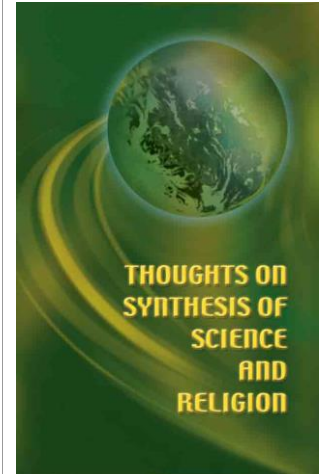
Covers a wide variety of topics, including: **Faith, ethics, culture, consciousness, biology, quantum mechanics, ecology/environment, biomedical ethics, world peace, neuroscience, artificial intelligence, cognitive science, psychology, philosophy, art, spiritual experiences, etc.**

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- ◆ *Can you answer this question raised by Prof. Townes: “How complex a situation can we understand? ... If you try to understand a system more complex than the one you are using (the brain) to study it, is there enough information-handling capacity to do so?”*
- ◆ *According to Prof. M. M. Chakrabarty (author of 250 articles and 4 patents), which book presents “the most logical and rational religious philosophies in practical life that help one to lead his life honestly”? And “why are scientific theories incomplete?”*
- ◆ Nobel Laureate R. B. Woodward emphasized that success in chemical synthesis depends on ...? What are the most effective techniques he personally employed in his own syntheses (as personally recounted by his own daughter)?
- ◆ “Science is finding other realities, those announced by old religious documents throughout the world.” Find out about them!
- ◆ “Where are memories before you think of them?” *Can you discuss this with Dr Deepak Chopra?*
- ◆ “Once we understand this, we can explain almost all the phenomena that have been thought to be paranormal.” What is “this”?
- ◆ Investigate the practical cases of spontaneous regression of malignant tumors without treatment, a really paradoxical phenomenon with many therapeutic potentialities! *Read corroboration from Roy & Majumder, “States of consciousness and self-remission of cancer”.*
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- ◆ “Classroom lecturing is by far not the most efficient way of teaching.” *What is Prof. Ernst’s practical proposal for a fruitful education?*
- ◆ “Every minute, we destroy...” *According to Dr Muller, what can we do now when facing new problems coming up all the time in this world?*
- ◆ How is it that those who adopt a spiritual vision, and like to really include God in their lives, are generally gaining two advantageous “side-effects”: a successful career, and an increased capacity to face and solve difficulties? *Examine this fact with Prof. Srivastava.*
- ◆ “When machines rust into obsolescence, nature keeps winding its path through the ages. How to build a modern organization that mirrors the designs of nature?” *Learn more... with Bishop Swing, Founder President of the United Religions Initiative.*
- ◆ “This scientifically tested approach has proven to be an invaluable tool for allowing people of religions to cross boundary lines of normal hostility and meet at unexpected levels of mutuality and appreciation.” What is this wonderful approach?

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**Readership:** Science & Technology Students, Graduates engaged in research, Teachers, Faculty members, Engineers, Technicians, Teach yourself Science readers, Teach yourself Vedanta readers, Spiritual seekers

# Toward a Culture of Harmony and Peace

Editor: T. D. Singh ; Foreword: Desmond M. Tutu

Published jointly by: Council for a Parliament of the World's Religions (Chicago),  
Delhi peace Summit (New Delhi) & Bhaktivedanta Institute (Kolkata)

**"Peace is not a dream; it is hard work." Oscar Arias**

**42 Contributors**, including:

**Desmond M. Tutu**, Nobel Laureate in Peace, Bishop, South Africa  
**The Dalai Lama**, Nobel Laureate in Peace  
**A.P.J. Abdul Kalam**, President of India  
**Ahmed Zewail**, Nobel Laureate in Chemistry, Egypt and USA  
**Oscar Arias**, Nobel Laureate in Peace, Former President of Costa Rica  
**Shirin Ebadi**, Nobel Laureate in Peace, Judge and Lawyer, Iran  
**Mairead Maguire**, Nobel Laureate in Peace, Ireland  
**Jerome Karle**, Nobel Laureate in Chemistry, USA  
**Adolfo Perez Esquivel**, Nobel Laureate in Peace, Argentine  
**Freeman Dyson**, Templeton Prize, Physicist, Princeton University, USA  
**John Polanyi**, Nobel Laureate in Chemistry, Canada  
**Manmohan Singh**, Prime Minister of India  
Members of Parliament, Government of India

**Contents:**

Section 1: In search of world peace - An overview  
Section 2: The role of religious wisdom in achieving world peace  
Section 3: Role of inter-religious dialogue and interfaith cooperation for promoting a culture of peace  
Section 4: Science, religion and spirituality for promoting world peace  
Section 5: Social justice and empowerment for harmony and peace  
Section 6: Vision for a peaceful world

**This book will allow you to:**

- ✓ With the help of scholars, discover in depth and benefit from the **teachings of: Hinduism, Islam, Christianity, Jainism, Sikhism, Zoroastrianism, Buddhism, Judaism, Bahá'í faith.**
- ✓ Be an **artisan of your personal internal peace**, and a source of **inspiration** for others around you, in any group of faith or community.
- ✓ Gather the **tools** and the courage to **sow** today the fruits that our children will gather tomorrow.
- ✓ Participate in **practical actions and positive changes**, to facilitate the **transition from war to peace**, from chaos to **orderliness**, from oppression to **freedom**, and from hatred to **love**.

♦ **How** to promote a culture of peace and healing? **What are the ways and means** for creating harmony? **Where** must peace be **first** built?

♦ "Any process of peace is **bound to collapse if this is missing**." What is "THIS", as taught by Rev. Desmond Tutu?

Learn more about a great lesson, which will enable each one of us to quickly and effectively **improve our relationships** on a personal level (with our spouse, family members, friends), and which is useful as well for achieving reconciliation between religious groups and nations.

♦ From A.P.J. Abdul Kalam: "In my childhood one experience deeply touched me. ... I am 72 years old now and in my life I have never come across such a **beautiful message on the essence of life and how religions graduate into spiritual force**." What is this beautiful message?

♦ "**What really is peace?** ... Have you seen peace? ... Have you perceived it with any of your senses? ... How is it that we do not know what peace is?" Then, strangely... "How is it that we are able to instinctively recognize peace and want it? ... Why we miss it so much, when we do not have it?" Let's go deeper with Saldas Baba and see how we can have peace.

♦ "The word jihad, for example, is now routinely translated as "holy war", specifically the kind of "holy war" practiced by Muslims against unbelievers. This phraseology is **far removed from the true concept** of jihad in Islam." With Nobel Laureate Ahmed Zewail, let's highlight some of the **misunderstood principles** of Islam.

♦ In which **unique country** of the world is there **no anti-Semitism**, this country having welcome thousands of Jews and allowed them to peacefully live with their faith?

♦ Can **spiritual wisdom** be found by combining the **insights of religion** with the **tools and methods of science**? Let's discover more, with physicist Freeman J. Dyson.

♦ How to help realize that goodness or salvation is not the monopoly of any specific religion? How to leave behind dividing exclusive attitudes?

**What are the main causes of terrorism? Why and how can conflicts arise in the name of religion?** What is the root of misunderstanding and misconceptions?

♦ **How to develop spiritual eyes**, spiritual understanding, spiritual and moral qualities, in order to achieve **personal and social transformation**?

♦ How to bring the missing **wisdom and compassion**, along with **intellectual and economic resources**, to overcome the new challenges impelled by science and technology (competition, conflict, widening gaps)? How to encourage the growth of a **creative and compassionate global consciousness**? How to **aid developing countries**?

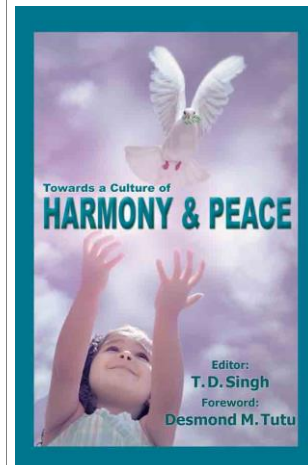
♦ Can we **preserve the earth** and generate a more **equitable and humane future**? (from Jerome Karle) And what about gender equity, poverty, social exclusion and global domination?

♦ Committing ourselves to **justice** (social, economical, political) to serve peace. (from Swami Agnivesh, Chair, UN Trust Fund on Contemporary Issues of Slavery)

♦ How to understand the meaning of a **universal connection with one another**? (from T. D. Singh)

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**Subjects:**  
Religion, Inter-Faith, Conflict Resolution, Wisdom, Vedanta, Veda, Hinduism

**Readership:**  
Religiously concerned persons participating (or desiring to participate) in Inter-Faith gatherings and positive actions for more Harmony and Peace in the world among all peoples,  
Mediators, Conciliators, Coaches in Conflict Resolution,  
Students and Teachers of Yoga, Philosophy, Comparative Religions, etc.

Individuals desiring a better world for themselves and for future generations to come,

Spiritual seekers,  
Non-violence, World Peace and Harmony seekers

# Vedanta and Biotechnology – Bioethical Perspectives

Dr T. D. Singh

- Provides **stimulating insights** into what has now become one of the most extraordinarily revealing arena of our times.
- Touches the **latest biotechnological revolutions**, from cloning to highly debatable stem cell research.
- Covers most **important bioethical questions**.
- Helps **resolve** some of these issues with guidance from **Vedanta**, the topmost scientific and philosophical treatise of Indian spiritual and cultural heritage.

## Contents:

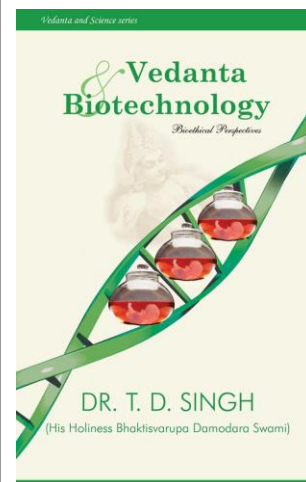
1. Introduction
2. Recent Biotechnological Advancements – A Brief Overview
3. Some Bioethical Questions Raised by Biotechnological Advancements
  - 3.1. Test-Tube Baby and Embryo Transplants
  - 3.2. Freezing Human Embryos
  - 3.3. Surrogate Motherhood and its Implications
  - 3.4. Stem Cell Research
  - 3.5. Cloning
  - 3.6. Hospital Ethics & Comatose Patients under Life-Supporting Systems
  - 3.7. Euthanasia
4. Vedantic Conception of Life, its Meaning and Purpose
  - 4.1. What is life?
  - 4.2. Inquiry into the Prime Duty of the Human Soul
  - 4.3. The Beginning of Life in the Womb
5. Vedantic Spiritual Biotechnology – A Glimpse
6. The Role of Science and Religion Dialogue in Dealing with Bioethical Questions

## 7 good reasons to read this book now:

- ✓ Get a **clear and precise scientific knowledge** about the latest biotechnological advancements, whether or not biology is already your field of expertise.
- ✓ Receive relevant data from the eye-opener **Vedanta!** Take advantage of the scientific and spiritual knowledge disclosed in it... and gain a **nice advance for your own scientific research**.
- ✓ If you know some of the millions of people who are intending to use biotechnologies to beget their own children (test-tube baby, embryo transplants, in-vitro fertilization, surrogate mother, pregnant men...), **be competent to help them choose with full knowledge of the facts**.
- ✓ Learn how to be blessed to obtain a **child** endowed with numerous good **qualities** (for peace and happiness of the human race), as taught by the Vedantic pediatrics.
- ✓ Give your own grown-up children **genuine answers** to their crucial questions about ethics.
- ✓ Teach your students with more **ease and confidence**; answer their pressing questions in a **fascinating way**.
- ✓ Become a more responsible **citizen**. In this risky era of biotechnology, offer this planet (Bhumi) and all its children the **best solutions**.

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Readership:  
Science & Technology Students,  
Graduates on Biotechnology  
engaged in research,  
Teachers, Faculty members,  
Medical Doctors and Nurses,  
Teach yourself Science readers,  
Teach yourself Vedanta readers,  
Parents-to-be, Parents,  
Spiritual seekers



# Vedanta and Embryology

Dr T. D. Singh



*"From the moment of conception, the experience in the womb shapes the brain and lays the groundwork for personality, emotional temperament and the power of higher thought."*

Dr Thomas R. Verny, Psychiatrist, USA

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Vedanta and Science series

## Vedanta Embryology



DR. T. D. SINGH

(His Holiness Bhaktisvarupa Damodara Swami)

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Biology, Biotechnology, Science and  
Spirituality, Vedanta, Veda

**Readership:**  
Medicine and Midwife Students,  
Teachers, Faculty members,  
Teach yourself Science readers,  
Teach yourself Vedanta readers,  
Spiritual seekers

Some of the topics covered:

- ✚ Is the embryo conscious?
- ✚ At what stage can an embryo be considered a human being?
- ✚ What are the various stages of the embryo's development, from conception to birth, according to Vedantic texts as well as modern embryology?
- ✚ When is the fetus able to use his various sensory capabilities, especially hearing?
- ✚ How to facilitate the best mental and physical health of the baby in the womb?
- ✚ What does science teach about sperm cells (spermatozoa)?
- ✚ What is the fundamental property of life?
- ✚ The amazing mystery of the soul and of life.

# Vedanta and Happiness

Reconnecting Spirituality and Technology  
in search for **Happiness** and **Fulfilment**

Dr T. D. Singh

*“All men wish to be happy, but are dull at perceiving exactly what is that makes people happy”.*

Seneca, Roman Stoic philosopher

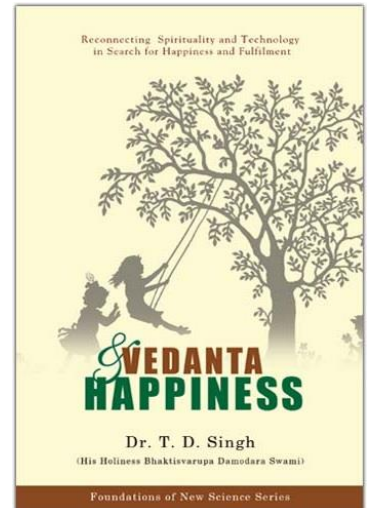


Some of the topics covered:

- ✚ Can modern facilities providing material comforts have a lasting effect on our state of Happiness?
- ✚ What are the causes of our present sufferings?
- ✚ Can we practically spiritualize technology?
- ✚ How to acquire mental balance or peace of mind?
- ✚ What type of knowledge can be conducive to Happiness?
- ✚ Can one's state of Happiness be more lasting and, perhaps, ever-increasing?
- ✚ If so, what is the nature of such a state of Happiness?
- ✚ What are the ways through which such a state of Happiness can be attained?

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Students,  
Teachers, Faculty members,  
Teach yourself Science readers,  
Teach yourself Vedanta readers,  
Spiritual seekers

# Vedanta and the Science of Aging

Dr T. D. Singh

“Nothing in life is to be feared, only understood.” Marie Curie

## Contents:

Theories and attempts for solutions – An overview

Dying

Gerontology and Geriatrics

Theories of Aging

The chemical conception of life

Vedantic perspectives on life

Vedantic applications – The integrated spiritual approach

Spirituality, healthcare and ayurveda in India

Spirituality and healthcare in the West

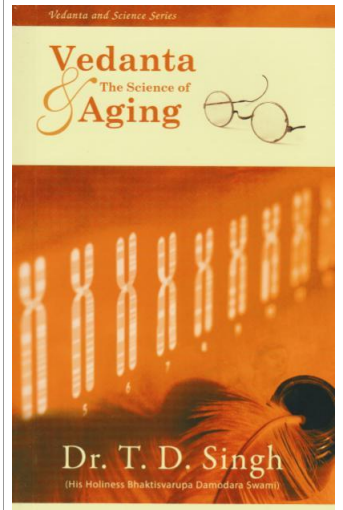
End-of-life care

Dying



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**Subjects:** Healthcare, Biology, Chemistry, Gerontology, Geriatrics, Death, Ethics, Science and Spirituality, Vedanta, Veda, Hinduism

**Readership:** Science & Technology Students, Teachers, Faculty members, Medical Doctors and Nurses, Teach yourself Science readers, Teach yourself Vedanta readers, Spiritual seekers

- ◆ Can we reverse the aging process? Yes! Three types of approaches. *Read and experiment!*
- ◆ Astonishing correlations between Ayurveda and Genomics.
- ◆ The life particle: What are its five fundamental qualities? What is it made of? How to study it?
- ◆ The physical, emotional, social and spiritual needs of the aged.
- ◆ What is death?
- ◆ How to help heal, comfort and solace the dying?
- ◆ How to live through the stages of old age and death with optimism?
- ◆ What is the most important duty of a person who is about to die? How to prepare for that?



Dr. T. D. Singh (His Holiness Bhaktisvarūpa Dāmodara Swami) (1937-2006): A scientist and spiritualist known for his pioneering efforts to interface between science and religion for a deeper understanding of life and the universe, he received his Ph. D. in Physical Organic Chemistry from the University of California, Irvine in 1974. He contributed many papers in the Journal of American Chemical Society and the Journal of Organic Chemistry in the field of fast proton transfer kinetics in model biological systems using stopped-flow technique and NMR spectroscopy. He also worked on gas phase reaction mechanisms using Ion Cyclotron Resonance (ICR) spectroscopy.

He underwent Vaishnava Vedanta Studies (1970-1977) under His Divine Grace A. C. Bhaktivedānta Swami Prabhupāda, who appointed him as International Director of the Bhaktivedanta Institute (from 1974).

He organized four International conferences on science and religion—First and Second World Congress for the Synthesis of Science and Religion (Bombay, 1986 & Calcutta, 1997), First International Conference on the Study of Consciousness within Science (San Francisco, 1990) and Second International Congress on Life and Its Origin - Exploration from Science and Spiritual Traditions (Rome, 2004), where a galaxy of prominent scientists and religious leaders including several Nobel Laureates participated.

He authored and edited several books including What is Matter and What is Life? (1977), Theobiology (1979), Vedanta & Science Series: Life and Origin of the Universe (2004), Life and Spiritual Evolution (2005), Essays on Science and Religion (2005), (Ed.) Synthesis of Science and Religion: Critical Essays and Dialogues (1987), Thoughts on Synthesis of Science and Religion (2001), Seven Nobel Laureates on Science and Spirituality (2004), Science, Spirituality and the Nature of Reality (2005), Towards a Culture of Harmony and Peace (2005).

He is the Founder Editor-in-Chief of the Journal of the Bhaktivedanta Institute entitled, Savijñānam: Scientific Exploration for a Spiritual Paradigm and the Magazine of the Bhaktivedanta Institute, Tattvajijñāsā: Scientific and Spiritual Quest for Ultimate Reality.

Dr. Singh is also the Founder President of Vedanta and Science Educational Research Foundation, Kolkata, and a founding member of the United Religions Initiative (URI). He is the Founder president of URI's Manipur (North-Eastern India) Cooperation Circle.

As an educator, he established a network of schools in North-Eastern India and supervised and guided over 4000 students at these different schools.

He is also an accomplished singer, instrumentalist, and poet. He founded “Ranganiketan Manipuri Cultural Arts Troupe”, which has more than 600 performances at over 300 venues in about 20 countries.

He started building the University of Bhagavata Culture in Imphal, Manipur, India which will promote the universal scientific and philosophical relevance of the teachings of Bhagavad-gītā, Śrīmad-bhāgavatam, Vedānta and other Vedic scriptures within the framework of modern cultural and educational milieu for the welfare of humanity.

## About the BHAKTIVEDANTA INSTITUTE

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The Bhaktivedanta Institute was founded by His Divine Grace A. C. Bhaktivedānta Swami Prabhupāda in Vrindavan in August 1974. Śrīla Prabhupāda was one of the greatest exponents of Vedic culture in the 20th Century. He strongly felt that modern civilization is completely misdirected by scientific materialism and there is an urgent need to introduce the spiritual knowledge and wisdom of the Bhagavad-gītā and Śrīmad-bhāgavatam, the cream of all the Vedic scriptures, to the scientists, philosophers, scholars and students of the world.

He noticed that all the prestigious academic institutions and universities of the world were teaching many different subjects but they had left out the most important branch of knowledge—the science of the soul. He envisioned that this spiritual knowledge of life would help restore an ethical culture for modern society. Thus, there would be hope for bringing lasting happiness and world peace. He felt that introducing this spiritual culture should be the contribution of India for the welfare of humanity.

Śrīla Prabhupāda appointed his disciple Dr. T. D. Singh (Bhaktisvarūpa Dāmodara Swami) as the International Director of the Institute from its very inception and left several instructions to him to carry forward his vision.

The Bhaktivedanta Institute is a center for Advanced Studies in Science and Vedānta and focuses on a consciousness-based paradigm. This spiritual paradigm has a unique potential to resolve the mind-body problem, the question of evolution and life's origin and many other philosophical and ethical concerns. Thus this paradigm will have profound significance for science, religion, and their synthesis. One of the primary objectives of the Bhaktivedanta Institute is to present this paradigm for the critical attention of serious scholars and thinkers throughout the world. As such, the institute supports a closer examination of existing scientific paradigms in cosmology, evolution, physics, biology, and other sciences.

The institute also promotes scientific, philosophical and religious dialogues among scientists, scholars and theologians of the world, covering various common conceptual grounds of science and religion for the purpose of creating a better and harmonious understanding among all people. In order to achieve these goals, the institute organizes international conferences regularly and publishes books and journals.

Interested persons may contact the secretary of the Institute at:

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