

# 2018 ANNUAL REPORT



**BHAKTIVEDANTA INSTITUTE**

[www.binstitute.org](http://www.binstitute.org)

*Promoting Dialogue between Science and Spirituality*

# Dedication



HIS DIVINE GRACE  
SRILA A. C. BHAKTIVEDANTA SWAMI PRABHUPADA  
(1896-1977)

*A Visionary Saint for the Modern Scientific Age  
&  
Founder Acharya of The Bhaktivedanta Institute*



HIS HOLINESS  
SRILA BHAKTISVARUPA DAMODARA SWAMI  
(1937- 2006)

*Founder Director, Bhaktivedanta Institute  
&  
Founder, VSERF*



“Not all of us can  
do great things.  
But we can do  
small things with  
great love.”

— Mother Teresa  
Noble Laureate in Peace

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## ABOUT US



**B**haktivedanta Institute is a non-profit organization working for the synthesis of science and religion for the benefit of humanity. Our goal is to have spiritual reality accepted and incorporated into scientific research and advancements, and to have scientific principles and methods integrated into the practice of spirituality. Bhaktivedanta Institute is a center for advanced studies in science and spirituality focusing on a consciousness based paradigm of Vedanta to resolve the mind-body problems, the questions of evolution, origin of life and the universe and many other philosophical, ethical and moral human concerns. The institute also promotes scientific, philosophical and religious dialogue among scientists, scholars and religionists of the world covering various common conceptual grounds of science and religion for the purpose of creating a better and harmonious understanding among all the people.

Founded in 1974, Bhaktivedanta Institute has made unparalleled efforts in bridging science and spirituality. The institute has organized numerous conferences, symposiums, seminars and workshops in various educational and research institutes throughout the country and abroad.

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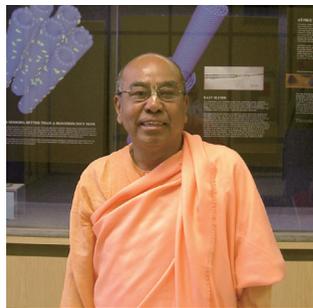
## FOUNDING DIRECTOR



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### **Dr. T. D. Singh**

**(His Holiness Bhaktisvarupa Damodara Swami)**

Physical Organic Chemist

University of California

Dr. T. D. Singh received his PhD in Physical Organic Chemistry from the University of California at Irvine in 1974. He is a scientist and spiritualist known for his pioneering efforts in synthesizing science and religion for a deeper understanding of life and the universe.

He has many contributed 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 was trained in Vaishnava Vedanta studies from 1970 to 1977 under Srila Prabhupada and was appointed Director of the Bhaktivedanta Institute in 1974. He has organized four International conferences on science and religion - First and Second World Congress for the Synthesis of Science and Religion (1986 & 1997), First International Conference on the Study of Consciousness within Science (1990), and Second International Congress on Life and Its Origin (2004). Collectively thousands of prominent scientists and religious leaders including several Nobel Laureates participated. He has authored and edited several books including *Thoughts on Synthesis of Science and Religion* (2001), *Savijñānam — Scientific Exploration for A Spiritual Paradigm* (Journal of The Bhaktivedanta Institute), *Tattvajijñāsā — Magazine of The Bhaktivedanta Institute, Vedanta and Science Series: Life and Origin of The Universe* (2004), *Science, Spirituality and The Nature of Reality* (2005), *Life and Spiritual Evolution* (2005), and *Essays on Science and Religion* (2005).

Dr. T. D. Singh departed for the spiritual abode on 2<sup>nd</sup> October 2006.

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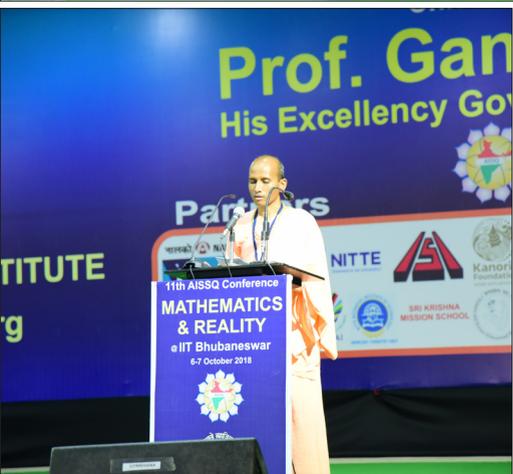
11<sup>th</sup> AISSQ Conference on  
**‘Mathematics and Reality’**  
 October 6-7, 2018  
 at Indian Institute of Technology (IIT) Bhubaneswar

Mathematics as a science is one of the disciplines of inquiry into the nature of reality. Galileo’s assertion that “The book of nature is written in the language of mathematics” has been a guiding principle of science since the scientific revolution. The relationship between mathematics and reality has become increasingly explored over the last century as physics, led by ever more profound calculations, makes spectacular advances. This has enabled extraordinarily precise predictions about every aspect of the material world from the very small (Higgs bosons, etc) to the very large (gravitational waves, etc).

To explore the deepest mysteries of the nature of Reality through Mathematics, the Bhaktivedanta Institute Kolkata organized the 11th AISSQ conference entitled ‘Mathematics and Reality’ on 6-7 October 2018, at Indian Institute of Technology (IIT) Bhubaneswar. The event brought together scholars, mathematicians, technologists from across the

country as well as abroad. The conference was attended by over 300 participants from academic institutes such as IITs, ISERs, AIIMS, IISc, Jadavpur University, IACS, ISI and many other elite institutions of the country.

Prof. Ganeshi Lal, Hon’ble Governor of Odisha, was the chief guest for the event. Dr. Kishan Lal Agarwal ‘Bhartiya’, CMD- Bhartiya Group, Prof. Sudipta Ghosh, Professor- IIT Kharagpur, Shri K Vasudev Rao, President- Bhaktivedanta Institute, Prof. K V Raja Kumar, Director- IIT Bhubaneswar, Dr. B D Mundra, Chairman Emeritus- Simplex Infrastructure Pvt. Ltd., Dr. Edward N. Zalta, Senior Research Scholar- Stanford University was the other distinguished dignitaries on the dais. The conference was inaugurated by the lighting the lamp by the dignitaries and paying tributes by offering flowers to the conference visionaries: Srila A. C. Bhaktivedanta Swami Prabhupada, Founder-Acharya, Bhaktivedanta Institute

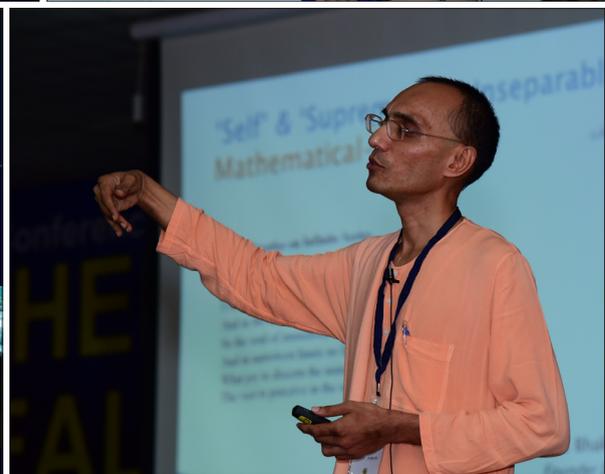
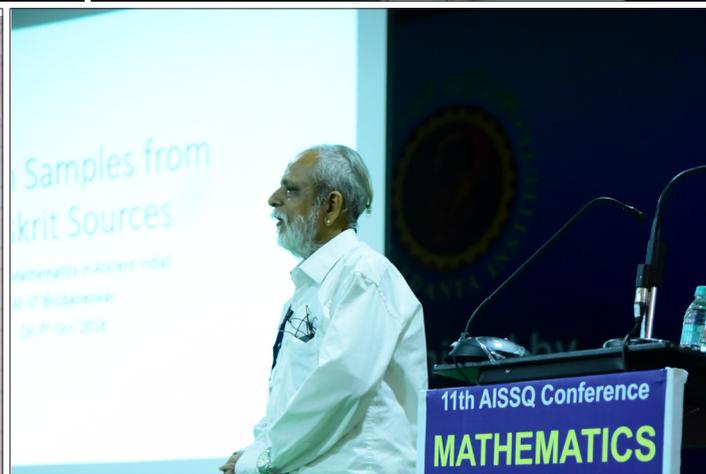
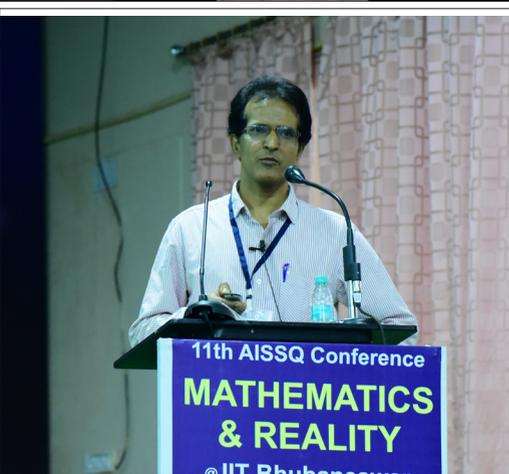
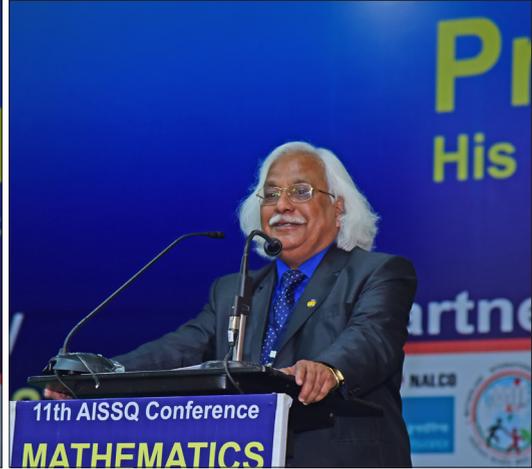


Inaugural Session

and Dr. T. D. Singh (His Holiness Bhaktisvarupa Damodar Swami Maharaj), Founder Director, Bhaktivedanta Institute, Founder, Vedanta and Science Educational Research Foundation. This was followed by an invocation prayer from Brahma Samhita sung by the school students. The session formally started with the welcome of all the dignitaries present on the dais by offering them bouquets of flowers.

Shri K Vasudeva Rao, the conference chairman of AISSQ-2018 conference addressed the audience as well as the dignitaries on the dais and welcomed everyone along with stressing on the importance of the conference. He introduced the conference visionary- Dr. T. D. Singh and also read the message received from the Hon'ble Prime Minister. Other dignitaries Dr. Kishan Lal Agarwal 'Bhartiya', Prof. Sudipta Ghosh, Dr. B D Mundra, Dr. Edward N. Zalta have expressed their thoughts about the unique conference. On behalf of the IIT Bhubaneswar and as an Executive Advisor of the conference, Prof. K V Raja Kumar has also addressed to the delegates and participants of the AISSQ conference and welcomed in the beautiful campus and introduced the activities and achievements of IIT Bhubaneswar. Prof. Rajakumar has expressed humble regards to AISSQ organizing committee for organizing the conference in IIT Bhubaneswar campus. Hon'ble Governor of Odisha, Prof. Ganeshi Lal has delivered inaugural speech towards the end of the session as the chief guest. Prof. Lal has remembered his time both as a student and as professor of mathematics and highly encouraged the conference theme 'Mathematics and Reality'.

After the speech of His Excellency, the souvenir and proceeding of the conference have been released by the chief guest and the dignitaries on the dais. A vote of thanks has been addressed by the conference secretary Shri Jitun Dhal (Swami Jimuktaketu Das). The inaugural session concluded with the singing of the National Anthem of India. The Session 1—What is Mathematics? began with an enlivening talk on "Mathematics and Reality – A Short Introduction" delivered by Shri Varun Agarwal, Director- Bhaktivedanta Institute, Kolkata. Deliberating upon the philosophy and foundations of mathematics, he expressed that this conference served as a platform to unite men of all scientific disciplines and spiritualist in the quest for reality. Dr. Edward N. Zalta, Senior Research Scholar, Stanford University presented a talk on 'Convergence in the Philosophy of Mathematics' with the explanation of mathematical symbols used as a unique language of mathematics and its many interpretations. Another interesting discussion was led by Prof. Bhu Dev Sharma, (Formerly) Department of Mathematical Sciences, Clark Atlanta University, the USA on 'Meta-Mathematics: Intuitionism and Formalism in Mathematics' and Prof. Luc Bergmans, Sorbonne Université, Paris, France on 'Mathematics and Ultimate Reality in Dutch Intuitionism and Marburg neo-Kantianism'. Prof. Sharma emphasized on Logicism, Intuitionism, and Formalism to unfold the meta-mathematical questions. Further, Prof. Bergman presented the work of Luitzen E J Brouwer, a deeply religious mathematician who was influenced by the Eastern and Western traditions of spirituality and mysticism. The



Distinguished Speakers in the Conference

sessions have been concluded with an interactive discussion and remarks by the session chair.

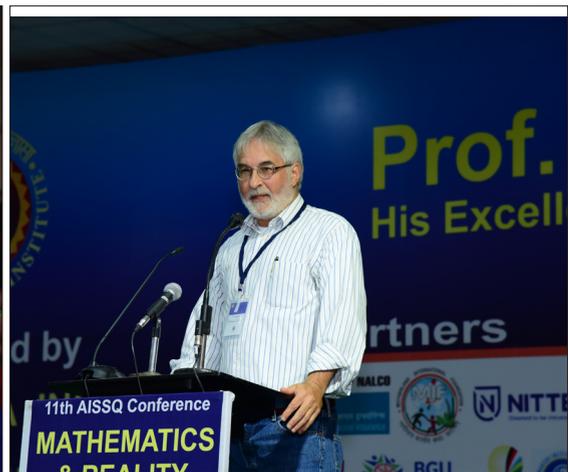
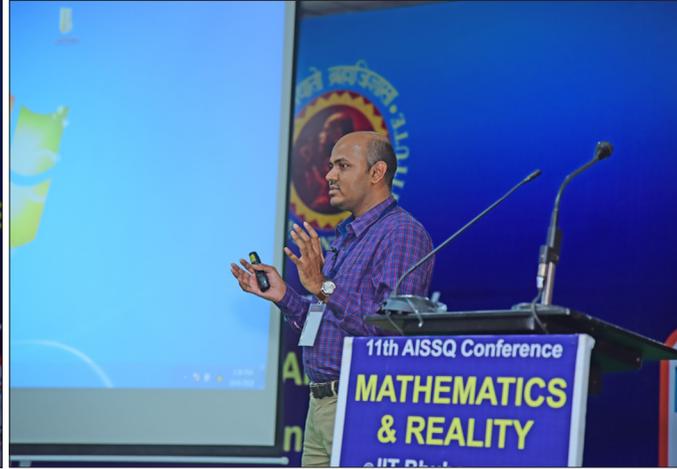
In Session 2— ‘Quick Thoughts on Mathematics and Reality,’ the young researchers across India were given an opportunity to present their thoughts, work and their findings on various topics around the theme of the conference. For example, Shri Sushant Sharma, Alumnus, IIT Guwahati discussed some unique philosophy through mathematical derivations on the topic ‘Gödel, Self-reference & Self-realization: Ontological Argument for Soul’. Research scholars Shri Pawan Kumar & Shri Sai Phani, from IIT Kharagpur spoke about ‘Computational Modelling of Chemical Origin of Life’. Smt. Shanti Mandal, Adjunct Scientist, Bhaktivedanta Institute & Smt. Munmun Ghosh, Research Scholar, Vidyasagar University discussed ‘Sankhya & Holistic Ayurveda’. Students from IISER Kolkata, Shri Deepankar Sarmah and Shri Roshan Tiwari discussed on ‘Cantor’s Infinity’ and ‘Pascal’s Wager’ respectively. The session was concluded with a wonderful lecture on ‘Mathematics and Poetry’ delivered by Dr. Ramjee Repaka from IIT Ropar.

The session 3 — Mathematics, Life, and Nature commenced with a talk by Prof. Pier Luigi Luisi, Professor Emeritus ETH-Zurich on ‘Science Facing the Spiritual Traditions’. This was followed by a talk on ‘Axiomatizing Consciousness – Setting and Postulates’ delivered by Prof. Henk Barendregt (Video Lecture), Radboud University, Nijmegen, The Netherlands. Prof. Sudipto Ghosh, IIT Kharagpur presented his lecture ‘In Search of Top-down Mathematical Laws’. Dr. Debashis Khan,

Dept of Mechanical Engg., IIT (BHU) Varanasi summarized about ‘Fred Hoyle’s Mathematical Theory of Natural Selection’ Towards the end of the session, Prof. Barendregt presented a video lecture.

Nowadays, computation has been an essential part of life which is originated from the mathematics. This very essential part cannot be imagined without the very core of life that is Divinity. Session 4, therefore was an interesting part of the conference which was proposed to discuss Mathematics, Computation, and Divinity. The very first lecture of the session by Dr. Christoph Benzmueller from University of Luxembourg was entitled “Can Computers help to sharpen our understanding of ontological arguments?” This lecture was a continuation of the work by the speaker which he has discussed in the 9th AISSQ at IIT Kharagpur with the help of Godel theorems on God and mathematical logic as well as a philosophical argument. Existence of God has been further discussed by Dr. Teun Koetsier, VU-University, Amsterdam based on Mathematician L. E. J. Brouwer’s philosophical views and the Bhagavad Gita. These discussions further supported by the findings of Prof. Sandeep Kumar from IIT (BHU) Varanasi on Space and Logic in the domain of Spirituality and Shri K. Vasudeva Rao, President, Bhaktivedanta Institute, Kolkata on Dr. T. D. Singh’s Equation of Life:

A Computer Simulation Model of Consciousness. Delving deeper into mathematical mysterious numbers the next session entitled “Infinity, One and Zero: Perspectives from Mathematics, Philosophy, and Spirituality” commenced



Distinguished Speakers in the Conference

after the lunch. The various topics of discussion in this session included: Infinity: Philosophical, Theological, Mathematical, Scientific, Computational & Cultural Aspects by Prof. Manohar Lal, Formerly School of Computer & Information Sciences, IGNOU, New Delhi, Mathematics – the Language of Divinity by Prof. P. B. Sharma, Vice Chancellor, Amity University Gurgaon; President, Association of Indian Universities, AIU and Reality – Explorations from Scientific, Mathematical, Philosophical and Vedantic Research Methodologies and their Synthesis, Prof. Ramgopal Uppaluri, Dept of Chemical Engg., IIT Guwahati were the topics of the session. Prof. Sharma discussed the philosophy of ‘Aham Bramhasmi’ and Vedic tradition in Indian mathematics. The application of mathematics is not limited to science and technology only. This, however, have its dimension in Art & Music in both Eastern and Western World. Further, Session 6 was dedicated to the ‘Mathematics, Arts and Ancient Wisdom’. Temperament in Western and Indian Classical Music was discussed by Ms. Jordan Bergmans from Royal Academy of Music, London. Ms. Bergmans has described the nature of sound and its mathematical expression through the original voice of basic acoustic instruments. The very sound of nature. On the contrary, Prof. V. Kannan from SRM University AP, Amaravati has discussed Modern Mathematics in Ancient India with the help of sixteen samples from Sanskrit Sources. In addition, Dr. Bhagwati Prasad Chamola from Dept of Mathematics, Jaypee Institute of Information Technology has added a contribution of great Indian Mathematician through the topics “On Some

Remarkable Contributions of Bhaskaracharya”. The information about the rich contributions of ancient India to the world in mathematics discussed in these lectures was highly interesting and encouraging to the audience. Few useful workshops have been organized for the real-time practices of spiritual elements in daily life. These workshops were on Time Management, Daily Yoga for Healthy Living, Spiritual Techniques for Peaceful & Happy Life and Creative Thinking for Research by President, Bhaktivedanta Institute, Bangalore, Sri Prabhakar Ballapalle, Yoga Practitioner, Sri Uday Bagh, President, Bhaktivedanta Institute, Kolkata, Sri K. Vasudeva Rao and Prof. Sudipto Ghosh, IIT Kharagpur. Delegates of the conference have participated with full enthusiasm in these workshops and highly appreciated as well. The evenings were colorful with cultural programs by artists from Manipur and Odisha. Participants of the Conference were all praises for the event and in their feedbacks have expressed great appreciation for the conference’s organizers.

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The Interactive Audience



Presenting mementos to the speakers and volunteers



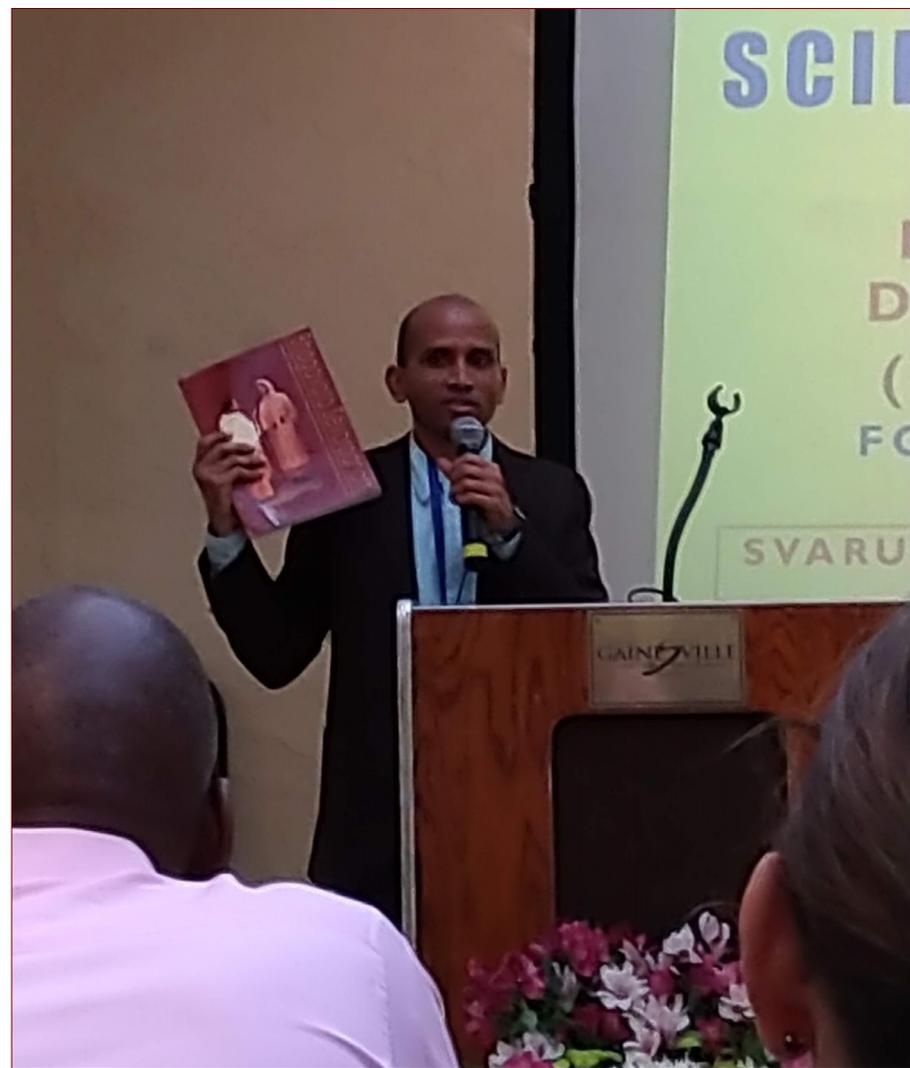
Cultural Evening



Well-wishers and volunteers of the conference

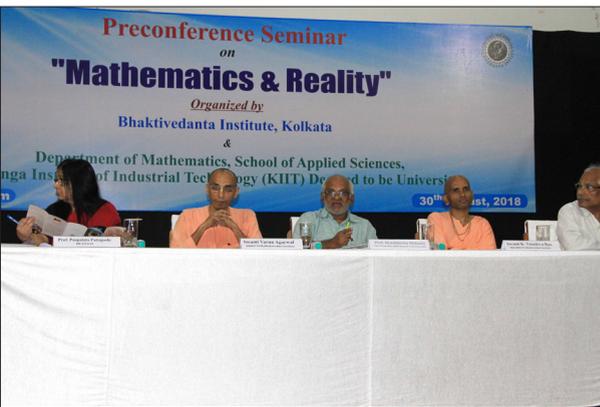
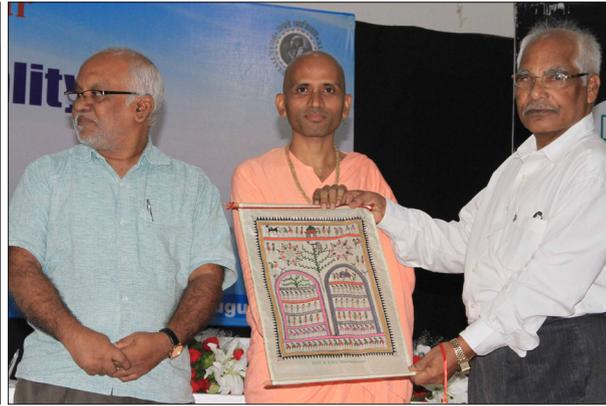
Conference on  
**Consciousness within Science**

January 18 to 20, 2019 | Gainesville, Florida



Talk by Shri K Vasudev Rao, President- Bhaktivedanta Institute,  
on 'Life and Works of Dr. T. D. Singh (His Holiness Bhaktisvarupa Damodar Swamii)'

# SEMINARS



Pre- Conference Seminar at KIIT Bhubaneswar



Pre- Conference Seminar at IIT Bhubaneswar



Seminar at SJBIT College, Bangalore | Topic: Man vs Machine | 17 November 2018



4<sup>th</sup> Summer School

## ‘Space and Time in Science and Spiritual Traditions’

28th June-1st July, 2018 | IIT-BHU, Varanasi

“Nowhere do mathematics, natural science, and philosophy permeate one another so intimately as in the problem of space.”-Hermann Weyl, Mathematician “For what is time? ... And certainly we understand when we speak of it; And certainly we understand when we speak of it; we understand also when we hear it spoken of by another. What, then, is time? If no one ask of me, I know; if I wish to explain to him who asks, I know not”. — Saint Augustine

“Eternal time is the primeval source of the interactions of the three modes of material nature. It is unchangeable and limitless, and it works as the instrument of the Supreme Personality of Godhead in the material creation.” — Srimad-Bhagavatam 3.10.11

Imagine a world where scientists and spiritualists join hands together to impart the mood to unravel the deepest mysteries of nature into the hearts of the younger generation, a world where science and spirituality shaking off the myths surrounding their seemingly disparate orientations, reveal the unity in their innate nature. Such a world manifested into a reality during 28th June-1st July, 2018 when a unique School on Space and Time in Science and Spiritual traditions was held

in the city of Knowledge, Varanasi in the beautiful campus of IIT-BHU, Varanasi.

The understanding of Space and Time has become essential and plays an integral role in experimental measurements, Physical theories and even understanding our own life. Hermann Weyl, well known mathematician said, “Nowhere do mathematics, natural science, and philosophy permeate one another so intimately as in the problem of space.” Among all the fundamental concepts science has encountered, Space and Time have unique role because in our experiences for any event to occur it occupies some Space and requires time, its understanding has a tremendous implication on framing our conception of Reality . From the ancient great-thinkers to Einstein’s presentation on space-time continuum and many more eminent thinkers, their lives have been centred around understanding Space and time. The Mystery of time is so subtle and difficult that it often slips off from the thinkers’ head and hands. Augustine, a great western philosopher said, “For what is time? ... And certainly we understand when we speak of it; And certainly we understand when we speak of it; we understand also when we hear it spoken of by another.



Gathering of Students and Speakers at the Venue



Sessions in progress

What, then, is time? If no one ask of me, I know; if I wish to explain to him who asks, I know not.”

The Summer School was attended by over 40 participants who in turn came from IITs, IISERs, BHU and many other elite institutions of the country. The wide range of themes and topics across gave the event its splendid aura and profoundness. The expert speakers from across the country kept the audience fully interactive and engrossed with their presentation styles and topics.

The School commenced with an inaugural ceremony at 09:30 am on 28th June, 2018 with chants of Prayers from Brahma Samhita, and Kul-Geet of Varanasi, lightening of lamps and offering flowers to the photos of Srila A. C. Bhaktivedanta Swami Prabhupada, founder Acharya, Bhaktivedanta Institute, Dr. T. D. Singh (His Holiness Bhaktisvarupa Damodar Swami Maharaj), founder director, Bhaktivedanta Institute, founder, Vedanta and Science Educational Research Foundation, and the School visionary, and Mahamana Pandit Madan Mohan Malaviya, founder of Banaras Hindu University (BHU), by the dignitaries. The chief guest of the School was Honorable Director of MNNIT, Allahabad, Prof. Rajeev Tripathi, Prof. B. N. Dwivedi, Professor in Department of Physics at IIT-BHU was the Guest of Honour who were present on the dais during the inaugural session. The other dignitaries on the dais were Prof. Prabhat Kumar Singh, HoD of Civil Engineering department, IIT-BHU, Sri K. Vasudeva Rao, President, Bhaktivedanta Institute, Kolkata, and Dr. Debashis Khan, Convener of Summer School, Associate professor at IIT-BHU, Varanasi.

Prof. P. K. Singh addressed the audience as well as dignitaries on the dais and heartily welcomed everyone along with expressing the vastness of discussions on Space and Time and pointing out the importance of synthesis of science and spirituality. He encouraged the delegates to be part of similar Conferences and Schools in future and extends his cooperation in Organizing such events.

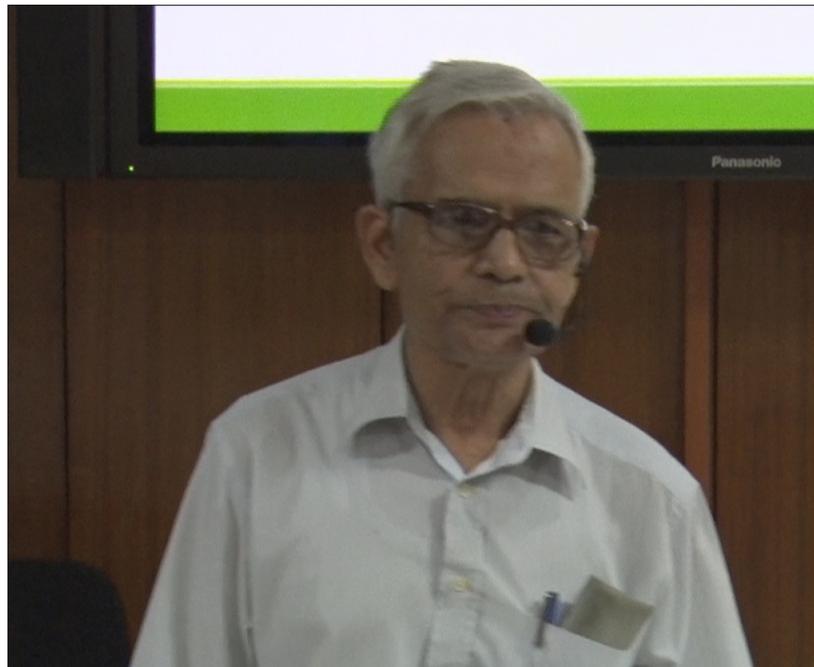
Dr. Debashis Khan, Convener of Summer School, addressed the audience as well as the dignitaries on the dais and heartily welcomed everyone along with stressing on the importance of the fundamental nature of “Space and Time” in our search for ultimate reality by pointing out that we are with space and time with every motion and every second of our life, but still we face challenges in comprehending them. He gave a glimpse of the Summer School by expressing that it covers physics and mathematical ideas all the way from antiquity to the latest 10-dimensional idea in String theory by various proponents. Opening a new Paradigm, “Could wisdom from spiritual traditions help for a differ comprehension on this Simple looking but mind blowing concepts such that we can understand ourselves and the universe?”

Shri K Vasudev Rao spoke about the founding Director of Bhaktivedanta Institute, Dr. T. D. Singh highlighting his contributions to propagate dialogue between Science and Religion. He revealed the unique mood of various events organized by the Bhaktivedanta institute, is deep listening with humility and respect. He further highlights that our mood is, “Compassion first and philosophy next.” He pointed out that the synthesis of science and religion is necessary for understanding the reality as science gives rigorous methods for verification of claims and spirituality gives traditional knowledge from divine realm by expressing his deep respect for both scientists and spiritualists for their determination in understanding the nature. He appreciates that “Space and Time” topic is very intriguing, interesting and mysterious. He focused that without acquiring the essential knowledge to be understood by ourselves, there will be no complete satisfaction and no direction in life. Therefore he humbly insisted all the listeners to acquire that necessary knowledge irrespective of our various interests.

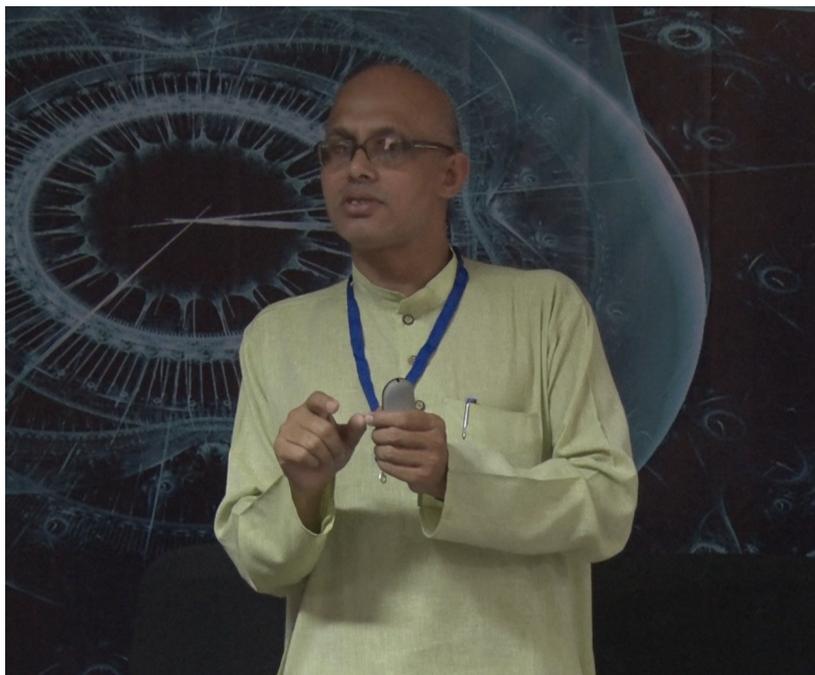
Prof. B. N. Dwivedi shares that there is no conflict between science and spirituality, and that spirituality when transformed into formulation becomes Science and then adapts the technology.



Honorable Director of MNNIT, Allahabad, Prof. Rajeev Tripathi



Prof. Yashwant Singh, Department of physics, IIT-BHU



Dr. Rajat Kumar Pradhan, HOD of Physics dept., Bhadrak autonomous College, Bhadrak



Mr. Vasudev Rao, President of Bhaktivedanta Institute

He narrated how Swami Vivekananda, a spiritualist inspired Science, by challenging Tesla to explain about how mass gets converted to energy which later led to Einstein's famous equation, by advising J.C. Bose to patent his discovery and by instructing Tata to establish Science institutes in India which resulted in present days IISc and TIFR (s). Spirituality helps science, removes superstitions and inspires humanity to live in harmonious and peaceful way. He expressed happiness that the School would be serving as an interface of Science and Religion and appreciated the great personality and contributions of Mahamana Pandit Madan Mohan Malaviya, founder of Banaras Hindu University (BHU) to the society.

His message was followed by a humble address by the Honorable Director of MNNIT, Allahabad, who expressed that his interactions with the interface of Science and Spirituality has taught him so many lessons. This type of interactions should be encouraged as they add direction to life to the present generations and give clear distinction between good (sukarma) and bad (vikarma) activities and to realize higher dimensions of life. He congratulated the event's organizers and wished all the best for the School.

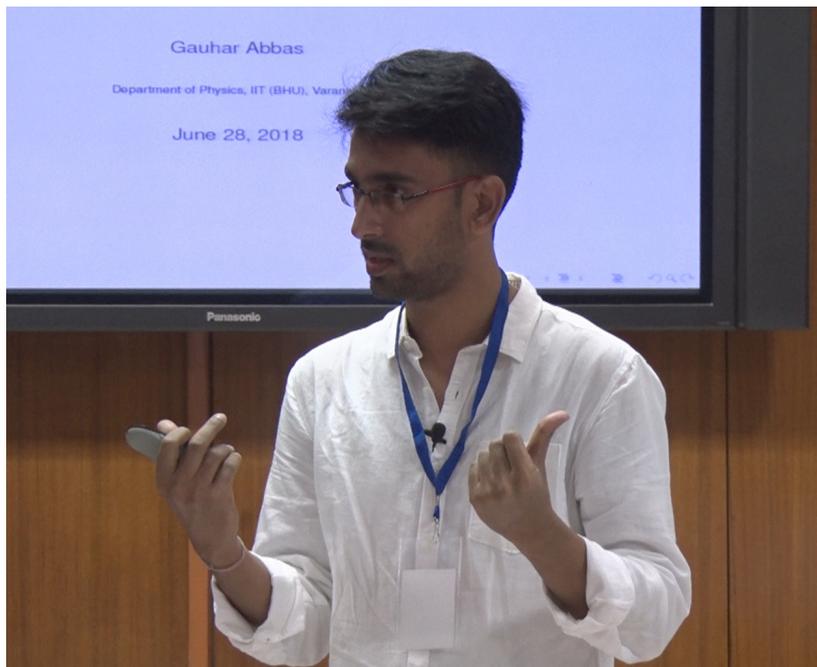
The inauguration ceremony was concluded with a humble Vote of Thanks by Sri Sushant Sharma, Secretary of Summer School.

Prominent researchers, academicians as well as spiritual leaders from India delivered about thirteen lectures on the following topics: Changing paradigms of Physics, The Concept of Time in Physics, Special Theory of Relativity, In the heart of Matter, Time Dimension: Explorations from Scientific & Philosophical Perspectives, Relativity and Quantum theories, Space in Mathematics, the Relativity of Time Perception – Neurological Perspectives, Space-time: Multidimensional & Interdimensional Overlapping – A Spiritual Perspective. The list also includes Students' presentation

Day 1 hosted three lectures. The first lecture was delivered by Prof. Yashwant Singh, Department of physics, IIT-BHU, Varanasi titled "Changing Paradigms of Physics". He pointed that nature's laws are understood by studying the underlying symmetry of space and time. He even expressed that whenever there is a breakdown in symmetry, it leads to an emergent property in Nature. Then he described the development of science and especially physics, its methods and philosophies beginning from the primitive ideas to philosophical foundations of modern science Inductivism and Reductionism proposed by Francis Bacon and Rene Descartes respectively. Then he started the journey of Physics beginning from Newtonian mechanics and pointing out how the two experiments Michelson-Morely and Black-body radiation brought the challenge to revisit and reframe our understanding of nature and that in turn changed the course of physics for next few decades. He pointed out the case studies of superconductivity and Meissner effect where symmetry breakdown takes place. He concluded that Behaviour of large and complex aggregate of elements is to be understood in terms of simple extrapolation of few properties.

Next lecture was by Dr. Rajat Kumar Pradhan, Head of Department of Physics, Bhadrak autonomous College, Bhadrak. His talk was titled as "The concept of Time in Physics". He introduced various notions of time in physics. He enthralled the students when he said, "The existence of something in space is inextricably linked with point-like nature of space. The notion of events is inextricably linked with point-like nature of Time". He added that time is metaphysical because it is neither matter nor energy.

Last lecture of day 1 was delivered by Mr. Vasudev Rao, President of Bhaktivedanta Institute, titled as "Bhagavad Gita, Space, time and meaning of our existence". He introduced the differences between eternal and temporary through easily probable examples. He made the session interactive by



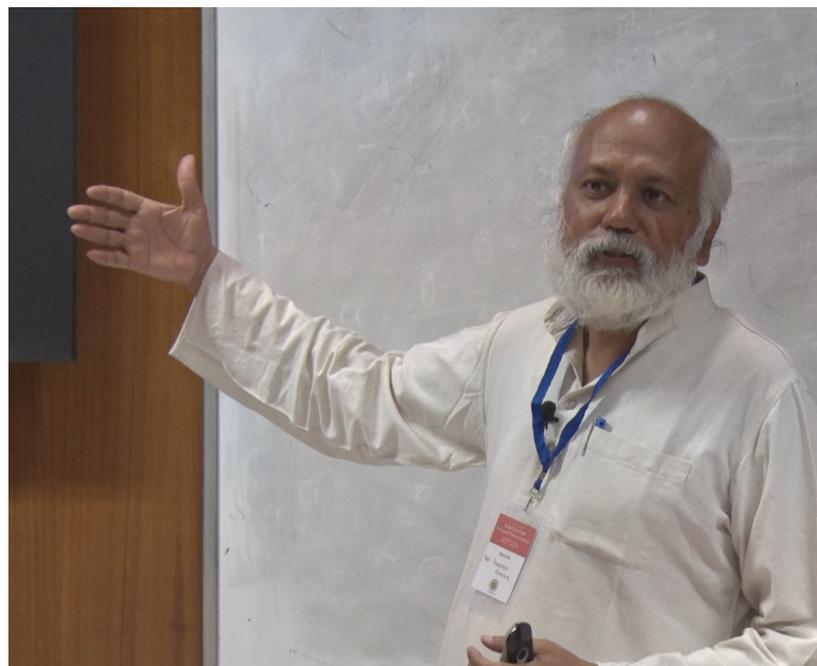
Dr. Gauhar Abbas from Department of Physics, IIT-BHU



Prof. Ramvijay Upalluri, IIT-Guwahati



Prof. B.P. Mandal, IIT BHU



Prof. Sandeep Kumar, IIT (BHU)

challenging questions like “Is there something which is not created?” ,”Is the universe Created?”.He strongly added “Faith is indispensable “ in every aspect of life even after a certain level of experimentation by quoting Prof.George F.R.Eills who says “I do not see any serious difference in the faith you need to believe in the multiverse and the faith you need to believe in a God who creates it all”. To gain any knowledge “Faith is the starting point ‘ and we rely on the person who knows. Establishment of the fact of Faith is necessary and cannot be avoided.

Even in acquiring spiritual knowledge “Faith in bonafide spiritual guide and Scriptures is indispensable” .Krishna says “A doubting person can neither be happy in this life or in the next life”. He highlighted by quoting Prof.J.N.Srivastava that “Krishna speaks with mathematical precision in Bhagavad Gita. Spiritual experiments are repeatable though they are subjective”. He added material and spiritual energies are eternal, not created. In vedic view world is made of matter and spirit. He commented that to measure spirit soul we need an instrument sensitive to and of the same nature as the Spirit Soul.

### **On Day 2 four lectures were delivered.**

Dr.Rajat Kumar pradhan continued his talk on “The concept of Time in Physics” by elucidating Einstein’s Special theory of relativity through introduction of Lorentz Transformations and its postulates, its consequences in the concepts of relativity of simultaneity and time dilation,length contraction,Mass variation and Mass-Energy equivalence.He stressed on non-separable relation of space-time,which is like treating time and space on equal footing.

Lecture 2 was entitled as “Into the heart of Matter” by Dr.Gauhar Abbas from Department of Physics,IIT-BHU. He had taken the audience through the journey of understanding

matter through various theories and their developments. He began from views on matter & light from classical,quantum theories to Quantum field theory.He highlighted recent idea of creation and annihilation of particles.

Lecture 3 was delivered by Prof. Ramvijay Upalluri ,IIT-Guwahati .He emphasized the conception of time in connection to the Heisenberg’s uncertainty principle and Entropy factor. He shared that the inference between the directions of both the cosmological and thermodynamic time is in the same direction, by insisting on “no intelligent life is possible in contracting world”. He highlighted the challenge faced in physics that low entropy of past is not consistent and is in contrast with the prediction high entropy which is conveyed by Loschmidt’s fluctuation theorem. He suggested that a consciousness based paradigm can account for this low entropy at the beginning. He draws the attention to the philosophical conception of time. He conveys the subjectivity of time through outer body experiences. He suggested that line of enquiry should progress through scientific,philosophical and spiritual concepts.He shared that our main defects in concepts and theories are because we as conditioned soul are subjected to mode of ignorance.

Next lecture was spoken by Shri Varun Agrawal ,Director of Bhaktivedanta Institute.He stressed on the importance of understanding space by sharing, “Any theory is incomplete without understanding of space”.Hefocussed on the foundational issues in understanding nature through mathematization as they are filled with self-referencing paradox, are inconsistent, incomplete now and will be incomplete forever as established by Godel’s work. He shared that the fundamental issue in understanding the concept of position in the journey from Newton Mechanics to Quantum Mechanics, is the inevitable Incompleteness on account of not involving a conscious being. He made notice of problem of observer made by Von Neumann. He demonstrated the role of intuitionism in understanding reality behind even very simple proof of  $2+2=4$ . He remarked



Students sharing their thoughts and views

that if we go deep into the foundations of science it leads to the beginning of Vedanta. Finally, he expressed that the purpose of life is to develop a loving relationship with God through Glorification of Lord with the culture of knowledge as we have and we may develop.

Day 3 contained 4 lectures.

Lecture 1 of the day titled “Relativity and Quantum Theories” by Prof. B.P. Mandal. He elaborated on the consequences of equal footing of space-time leading to new theories which predicted the existence of antimatter and lamb shift.

Lecture 2 ,entitled “Mathematical Spaces” by Prof.Sandeep Kumar.He demonstrated understanding is the application of Rules.He drew the attention that “Rules are based on accurate observation and generalization”.He explained mathematical space is defined as “A set with certain conditions or axioms” and described various mathematical spaces.

Dr.Asima Tripathy explained the relativity of time perception through Biology.She demonstrated the connections between neural oscillations and time perception.She explained the role of attention of subject for the perception of time by the brain.

Mr. Vasudev Rao continued his lecture series on Bhagavad Gita Overview. He expressed that Bhagavad gita defines, Knowledge is “to know about the body and the knower of the body”. He drew the difference between the body and the knower, and that is Consciousness. Knower defines the purpose of the field. He demonstrated the concept of false identification & its necessity and the incumbent purpose behind the design of this world and a glimpse of self-realization through a Video game example. Bhakti yoga is a process to reawaken our real identity. Intelligence works according to our identification. He added that the real platform of happiness is to make others happy and for increasing happiness the only way is to establish a relationship with the Lord.

Day4 commenced with two lectures and presentations by the delegates.

Mr.Sukadev presented Conceptual model of inter realms multidimensional Space-Time partially overlapping. He explained the Vedic view of birth of space and time from breathing of Maha Vishnu. He presents the hypothetical existence of parallel universes.

Mr.Vasudev Rao in continuation of Bhagavad Gita Overview explained the differences between the soul and the supersoul. He discussed the foundations of Vedic scriptures. He highlighted that the inspiration we get has a relation with Supreme. He remarked that the goal of life is to remember the Lord at the time of death. He explains the differences between various types of Karma.

During all these talks, interactions between the audience and the speakers were remarkably astounding.

At the end of summer school in the valedictory session, the participants shared their opinions:

“It was a good experience to be part of this type of school”. “We have been exposed to Bhagavad Gita in a very understanding way”. “Platform for synthesis of science and spirituality should be encouraged” . “It was a rare opportunity we got where we could experience the interface of science and spirituality”.

Summer school organized a trip in Varanasi to Ganga Arati, Sri Vishwanath Temple and various important ghats and temples on the shore of River Ganges.



Trip in Varanasi to Ganga Arati, and Sri Vishwanath Temple

3<sup>rd</sup> Winter School

# ‘Scientific Exploration for God’

26 – 28, January 2018, Tirupathi, Andhra Pradesh, India



# 4<sup>th</sup> Winter School 'Holistic Living'

22nd -24th December 2018 | Kancheepuram, Tamil Nadu



Fourth Batch  
**Short Term Course on Science  
of Bhagavad-Gita**

30th August 2018 | Bhaktivedanta Institute, Bangalore



Workshop on  
"Value Education – Role of Science,  
Philosophy and Spirituality"  
10th August, 2018 at  
PB Siddhartha College Arts and Science, Vijayawada, Andhra Pradesh



**విలువలతో కూడిన విద్యే ఉన్న తికి సోపానం**

**మొగ్గలూపరం(విజయవాడ సిటీ), న్యూసీటుడే :** విలువలతో కూడిన విద్యను అభ్యసించిన వారికి ఉజ్వల బహుమతులు కుంకుమనీ భక్తివేదాంత సంస్థ విజయవాడ సంచాలకులు, డాక్టర్ రామగోపాల్ ఉప్పలూరి రామగోపాల్ ఉప్పలూరి కళాశాల సెమినార్ హాలులో విలువలతో కూడిన విద్య- విజ్ఞానం, వేదాంతం, ఆధ్యాత్మికత అనే అంశాలపై విద్యార్థులకు కార్యశాల నిర్వహించారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ శీవశాసనీ మార్గసూచిగా, ఉపనిషత్లు చూసినచేది విద్యార్థి భగీనని తెలిపారు. సమయాన్ని సమ్యక్యంగా చేసుకుని విద్యలు వ్యయ నేర్చుకోవడంలో పాటు వేదాంతం, ఆధ్యాత్మికతపై అసక్తి కనబరచాలని కోరారు. సంస్థ అధ్యక్షుడు వాసుదేవ్ రావ్, సంచాలకులు వరుణ్ ఆగర్వాల్, మేనేజర్లు కె.సుధా ప్రసాద్, డి.శ్రీనివాస్, కళాశాల ప్రెసిడెంట్ డాక్టర్ ఎం.రామేశ్వర్లు దీన్ ఆచార్య రాజేష్ సి.ఐంపాల తదితరులు పాల్గొన్నారు.



**విద్యార్థులకు వలు అంశాలను వివరింస్తున్న డాక్టర్ రామగోపాల్**

# FESTIVALS AND SPIRITUAL RETREATS



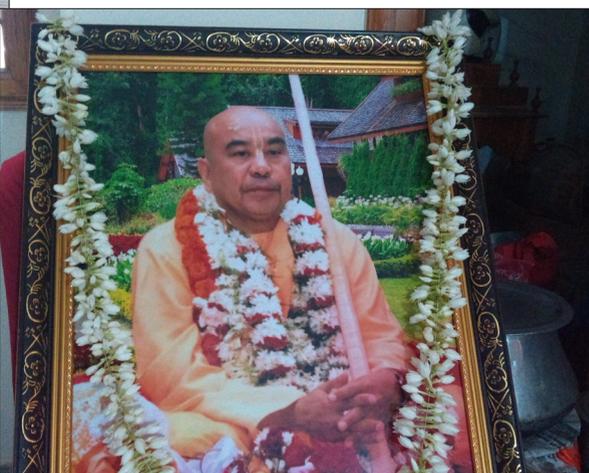
Janmastami Celebrations at Bhaktivedanta Institute, Kalyani



Narasimha Jayanti Celebrations at Allagadda center



Janmastami Celebrations at Bangalore



Vyasa Puja Celebrations at Bangalore



Gaura Purnima Celebration at Allagadda Center



One day trip to Melukotte on 2nd June 2018: with IISc Students



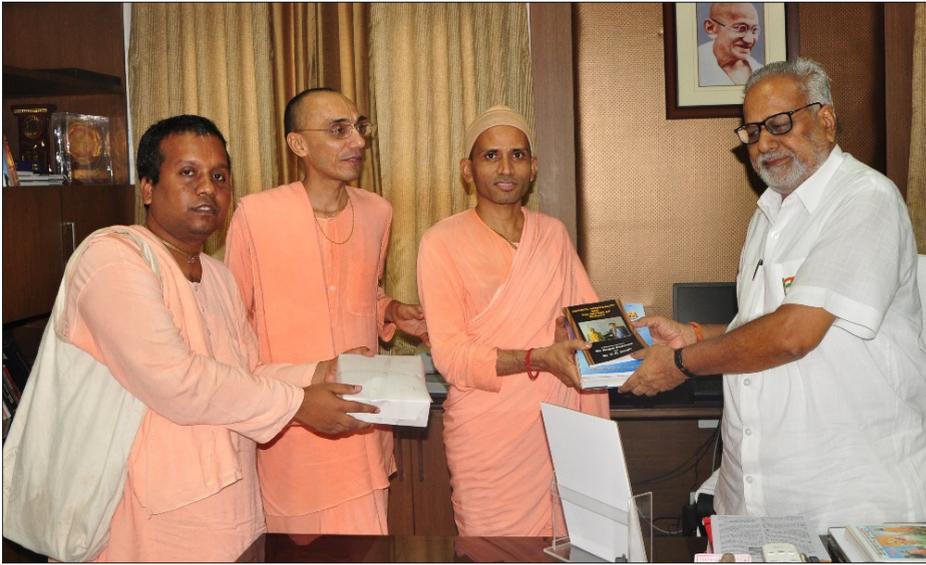
Trip to Ahobilam with IISc students on 17-19, August 2018



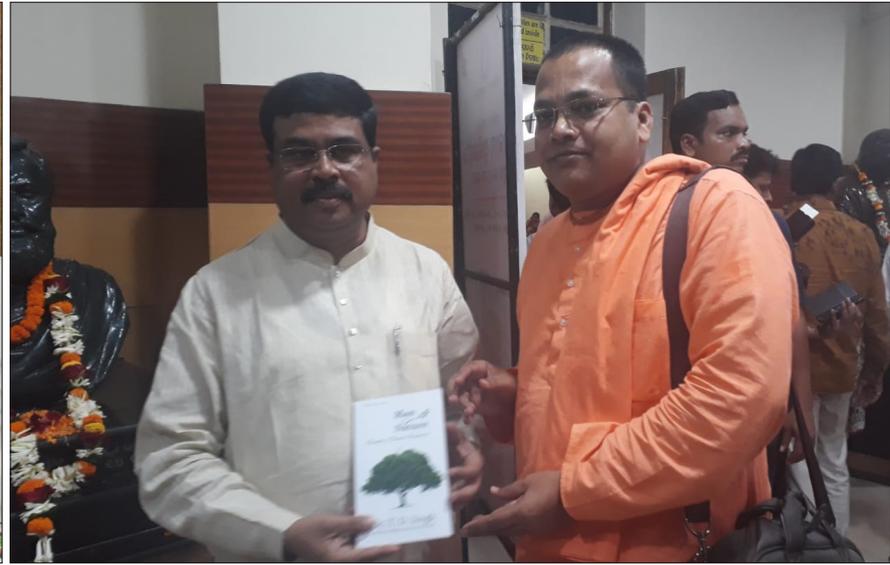
# BHAKTIVEDANTA INSTITUTE ON WHEELS



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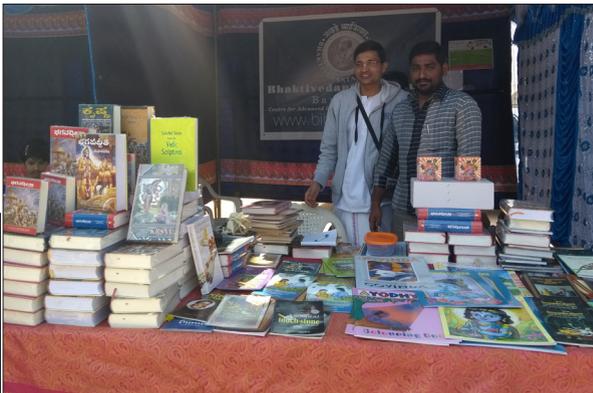
Prof. Ganeshi Lal, Hon'ble Governor of Odisha,



At IIT Bhubaneswar

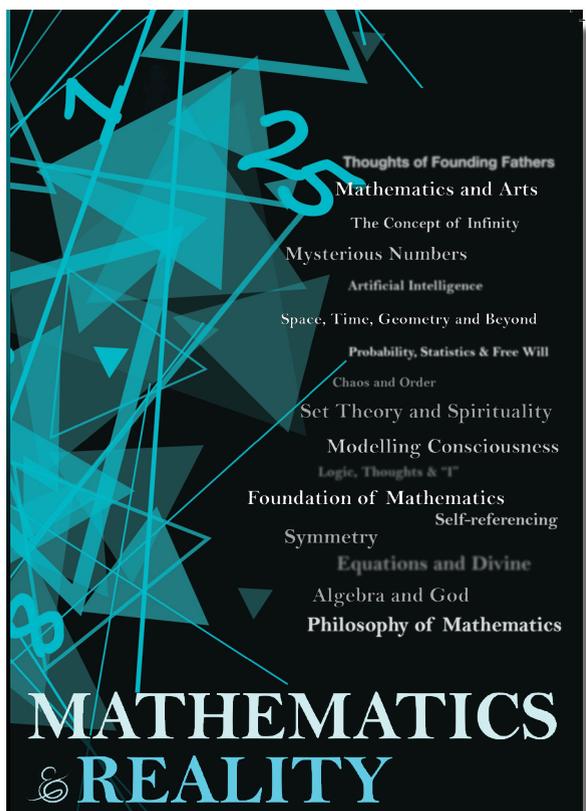


At BI Kolkata



Book Distribution at Bangalore during Gita Jayanti

## NEW PUBLICATIONS



## MATHEMATICS & REALITY

*Thoughts of Greatest Mathematicians of all times & other Brilliant Minds*

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**Gregory Chaitin**

*Federal University, Rio de Janeiro*

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*University of Seville, Spain*

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*Royal Academy of Music, London*

**Bhu Dev Sharma**

*(formerly) Clark Atlanta University*

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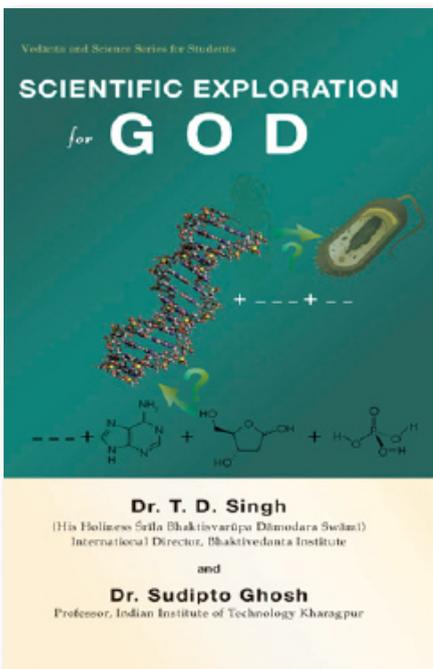
**Christoph Benz Müller**

*University of Luxembourg, Luxembourg*

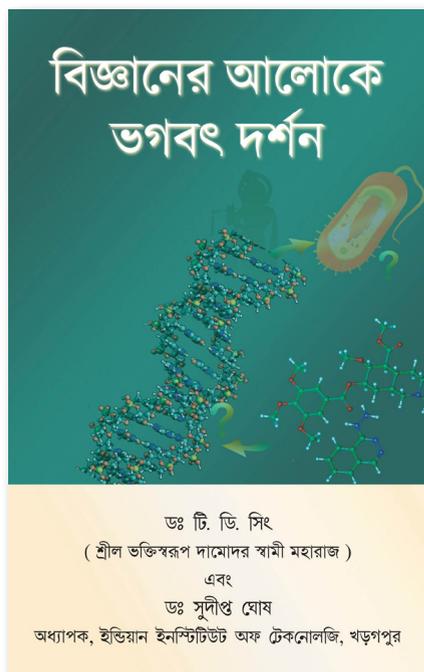
**Henk Barendregt**

*Radboud University, Netherlands*

# Scientific Exploration for GOD



The existence and nature of God has been debated since the beginning of mankind. Could the recent spectacular advancements in science and technology help us explore the question of God in newer ways? Read on as the authors marvelously penetrate into the astonishing mysteries of God on a scientific basis.



# STUDENTS' BIMONTHLY EZINE (Issue 31 - 36)



आ नो भद्रः कर्तवो वस्तु विद्यतोऽदम्यसो अर्षीत्स उदितः । (RgVeda) Let noble thoughts come to us from every side

## Science-Spirituality Dialogue Religion is Beyond Rituals



A Discussion between  
Charles H. Townes (right),  
Nobel Laureate in Physics  
and  
Dr. T. D. Singh (left),  
Physical Organic Chemist,  
Founding Director of  
Bhaktivedanta Institute

**Dr. T. D. Singh** (henceforth TDS): Religion is usually understood in terms of rituals. People think, "I belong to this or that type of religion." But the Vedic tradition discourages the sectarian spirit and puts a strong emphasis on actually knowing the nature of the individual being, the Supreme Self, and the relationship between them. In that way, it is the science of religion. The whole idea of Congresses which we organize is to bring together scholars in the fields of sciences, philosophy, and theology and have them discuss scientific and religious principles in terms of broader concepts, including a closer look into human life and its purpose. I'm suggesting that religious rituals alone should not be regarded as the true principle of religiosity, nor should they be a barrier among people from various cultural and national traditions. Open dialogues about this should benefit all of us.

**Professor Charles H. Townes** (henceforth CHT): I would generally agree with that. I don't set much importance on the normal kinds of rituals. They are not unimportant, but to me have no absolute significance. I would go further and say that I don't believe our understanding of religion is complete yet, and we must be prepared to learn and change as time goes on.

**TDS:** Science seems to be acceptable to all the religious communities because its tools and technologies are used by all religious groups whether in India or the United States. Do you think that scientists around the world can create some kind of influence and inspire religious groups to ease or remove the tendency to be fanatical?

**CHT:** I think science can help. In particular, it can help avoid the absolutism of some fundamentalist religious groups. They think they know what the right answer is, and

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Rudolf Steiner

### VEDANTA and SCIENCE



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Inaugural Session  
"Short Term Course on  
Science of Bhagavata-Gita"

One day Training  
Programme on  
"Holistic Life Skills"



आ नो भद्रः कर्तवो वस्तु विद्यतोऽदम्यसो अर्षीत्स उदितः । (RgVeda) Let noble thoughts come to us from every side

## Science-Spirituality Dialogue "Importance of Religion in Our Lives"



A Discussion with  
Prof. William D. Phillips (right),  
Nobel Laureate in physics  
and Dr. T. D. Singh (left),  
Physical Organic Chemist,  
Founding Director of Bhaktivedanta Institute

**T. D. Singh** (henceforth TDS): Your involvement in the church is very important – it plays an important role in your life. Is it contributing anything to your scientific ideas?

**William D. Phillips** (Henceforth WDP): Well, I would say it is indirectly helping me. Certainly my relationship to my church gives me a good platform for having a happy life. I really treasure the personal relationships that I have with the people in my church. As you said, if you've got a happy life then it's more likely that you are going to have more creative power than what would otherwise be the case. Church adds to my personal well-being, and certainly helps me to be a better person, and I think a better person can be a better scientist. Also, the teaching of the church – the understanding I have about the way one ought to live – an understanding of what I believe God wants for us: this is something that carries over into the way I do my work, and I think it should be for every person of faith. Their faith, their religious moral principles, should be things that affect the way they do their work ... I'm grounded in my religious faith; my being part of the church helps to guide me to do the right thing.

**TDS:** So when you are involved in the deep aspects of scientific research works, do your experiences in the church and in the power and mercy of the Lord help you to act the way that you do?

**WDP:** Well that's what I'm saying, that it helps me to be the kind of person that I think God wants me to be. Having that support from the church is an important part of my life ... We talked about the personal relationship with God and the personal relationships with each other. For me, having those personal relationships with

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Rājarsi Bhāgyachandra

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One day Training  
Programme on  
"Holistic Life Skills"

Conference on  
"Science, Religion and  
World Peace" held on  
4<sup>th</sup> November 2017

## Weekly Quotes

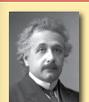
on Science &  
Spirituality



"The health of the intelligence and of the affective sense, moral discipline, and spiritual development are just as necessary as the health of the body and the prevention of infectious diseases."

— Alexis Carrel  
Nobel Laureate in Physiology or Medicine

To Know about Life, Matter, and their Interactions is called Knowledge



"I believe that a simple and unassuming manner of life is best for every one, best both for the body and for the mind."

— Albert Einstein  
Nobel Laureate in Physics

To Know about Life, Matter, and their Interactions is called Knowledge

Synthesis of  
**SCIENCE & SPIRITUALITY**  
Weekly Quotes

Srila Bhaktisiddhanta Sarasvati Thakura  
(1874 – 1937)  
Spiritual reformer of *Gaudiya Vaishnavism*



The Supreme Lord's transcendental form is not the same as what the human mind can imagine — it is neither a material form or formless.

— Srila Bhaktisiddhanta Sarasvati Thakura  
Bhaktisiddhanta Sarasvati Thakura Prabhupada, *Vakratavali: Garland of Divine Discourses*, Touchstone Media 2014, purport, p.127

Synthesis of  
**SCIENCE & SPIRITUALITY**  
Weekly Quotes

Werner Heisenberg  
(1901–1976)  
Nobel laureate in Physics



What we observe is not nature itself, but nature exposed to our method of questioning.

— Werner Heisenberg  
Physics and Philosophy: The Revolution in Modern Science (1958) Lectures delivered at University of St. Andrews, Scotland

# SUMMER SCHOOL - 2019

VISIONARY: Dr. T. D. Singh, Founder Director, Bhaktivedanta Institute

## TOPICS

- ▶ Foundations of Mathematics
- ▶ Thoughts of some Brilliant Mathematicians of all times
- ▶ Logic, Thoughts and I
- ▶ Understanding Vedanta through Computer Simulation Model

## INVITED SPEAKERS

Dr. Vijay P. Bhatkar (Padma Bhushan),  
Chancellor of the Nalanda University

Dr. Sandeep Kumar, IIT (BHU), Varanasi

Prof. Ramgopal Uppaluri, IIT Guwahati

Dr. Debashis Khan, IIT (BHU), Varanasi

Sri K. Vasudeva Rao, IIT Kanpur

Sri Varun Agarwal, IIT Kanpur

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*Every step science makes, brings us ever new surprises and achievements. And yet science is like a faint light of a lantern flickering in a deep and thick forest, through which humanity struggles to find its way to God. It is only faith that can lead it to light and serve as a bridge between man and the Absolute.*

— Guglielmo Marconi  
Nobel Laureate in Physics