

### 3. The Subjective And Objective Evolution Of The Consciousness

Soam Prakash

This world is an illusion which appears to be real. It is just like the miseries we suffer in a dream which is imaginary. Actually, the consciousness is not a product of this world; this world is a product of consciousness. This world is a reflection of spiritual world. In the land of devotion, everyone is a serving unit. All of the acquired happiness is a part of the absolute consciousness which can only be found there. In Bhagwat Gita, Krishna tells Arjuna “I am everywhere and nowhere, everything is in me and yet nothing is in me”. In my un-manifested form, the entire universe is pervaded. Behold my mystic opulence, my simultaneous oneness and difference. Although I am the maintainer of all the living entities and although I am everywhere, I am not inflicted by any of this, for I am the very source of creation. These are actually the Quantum properties of the creator in the universe. The material has not created material world but the consciousness or spiritual world has created the material world. The evolution of single cell structures or bacteria do have a consciousness of their own, similarly in the other invertebrates it re-aligns and the continuous flow is in the creation of higher invertebrates and vertebrates. The evolution is thus measurable by the source of bio- field or their electromagnetic characteristics. The integration of eastern philosophical school with western thinker and philosophers would be a fruitful culmination and the purpose of creation would be well served.

### 4. Consciousness and Smoke of Clouding Waves of Desires

Kanta Arora

Indian scriptures of religious philosophy declare that desire was the earliest seed and thought was the product. The sages who searched in their hearts with wisdom, found the bond of being in the non being. First desire sprouted forth earliest which produced thought. The Divine Will to grow or expand is the force behind all creation (Nasadiya Sukta of Rig Veda). I consider human form to be a disintegrated spark of that Divine desire. The clouding waves of desires surround living beings always and push them forward to a Will and determination. Will is greater than mind. For when a desire arises, man wills, then he thinks in mind / utters speech and acts and reaches as far as his will goes. I find reasons to believe that to be conscious is to be desirous. Self consciousness is desire itself. The tendency (desire) to grow and expand is the force behind every activity of world. Consciousness confined in the city of human body is a pack of desires. Seed of desire sprouts forth, expands to live its life and reverts back to its source. On the other hand eastern spiritual traditions also consider desire to be the root cause of all pain in life and a trap for falling into pangs of birth and death again and again. Some scriptures clearly distinguish between the crazy desires of mind leading one to stray for pleasant things which are of transitory nature and advice to distinguish between the good and pleasant with an aim to seek permanent bliss by going deep within. The only remedy for all deeper ills of life is the knowledge of the divinity of the human Self. The paper expresses a logical view as to how the smoke of clouding desires projects the tendency of spirit to mix with mind and matter and how one wanders in wilderness of this universe through developing a separate entity (I-ness). How a burning desire pulls up from within the Self itself to revert back for the experience of reunion with the ultimate reality, based on the philosophy of Upanishads and revelations by Indian saints.

6. Unfolding the Strings of the Cosmos : The Consciousness exists in empty space ( vacuum )  
also

Ansh Agarwal, Siddharth Agarwal

If a region of space contains nothing, or it's a vacuum, even then "Casimir force" acts as shown experimentally by Marcus Sparnay and Steve Lamoreaux. This quantum activity , though subtle, is due to quantum uncertainty. It happens due to reduction in field jitters/fluctuations (of electromagnetic, weak and strong nuclear forces).A field value cannot remain zero uniformly has been proven by calculations using mathematical framework (for explaining the value of Cosmological constant) and the recent data from Inflation and Supernova. The concept of existence of Consciousness in empty space as per Quantum Theory is best explained by "quantum non locality" or "quantum coherence". The "collapse problem" or the "binding problem" of quantum consciousness can be explained by the principle that things or space are in a wave like state until they are observed by a conscious observer and that consciousness causes collapse of wave function.

7. Harnessing Peace & Science with Qur'an in Present Era

Savita Srivastava, Amarved Srivastava

The peoples of every religion are peace seeking, promoters of Global Harmony along with Global Peace. Moreover Science is active to harness the sciences as well as social sciences using observations and experiments. We must be active to harness the sciences and social sciences in the 21st century to promote Peace for the World-Citizens irrespective of faith, colour and creed. And a crucial fact is that the Qur'an, while inviting us to cultivate science, itself contains many observations on natural phenomena and includes exemplary details which are seen to be in total Judeo-Christian Revelation. These scientific considerations, which are specific to the Qur'an, surprised us at first. Until then we had not thought it possible for one to find so many statements in a text compiled more than thirteen centuries ago referring to extremely diverse subjects and all of them totally in keeping with modern scientific knowledge.

8. Consciousnesses of Vedanta in Hindu philosophy and Science

Preeti Srivastava, Savita Srivastava

Vedānta or Uttara Mīmāṃsā is one of the six orthodox schools of Hindu philosophy. The term Veda means "knowledge" and anta means "end", and originally referred to the Upanishads, a collection of foundational texts in Hinduism. The wisdom of Vedanta enlightens that man's real nature is consciousness. But we do not properly grasp the idea because of 'Maya' or ignorance. One of the main factors that block the right type of perception is the ego in every man. The 'Search for Truth' compels us to watch the operation of the ego in our own consciousness. Unity in Diversity is the plan of nature and the 'Mahavakyas' or great words of Indian thought like 'Aham Brahmasmi', 'Tatvamasī', 'Ayamatma Brahma' and 'Prajnanam Brahma' speak volumes of the real nature of total consciousness. In Vedanta there is no distinction between subjective and objectives knowledge.

9. Bhagavad-Gita and Consciousness: a Universal Phenomenon

Preeti Srivastava, Savita Srivastava

The very first step in self-realization is realizing one's identity as separate from the body. "I am not this body but am spirit soul" is an essential realization for anyone who wants to transcend death and enter into the spiritual world beyond. Although we are not these bodies but are pure consciousness, somehow or the other, we have become encased within the bodily dress. Living in the bodily conception, our idea of happiness is like that of a man in delirium. Some philosophers claim that this delirious condition of bodily identification should be cured by abstaining from all action. Because these material activities have been a source of distress for us, they claim that we should actually stop these activities. Bhagavad-gītā indicates that this material body is not all in all. Beyond this combination of material elements, there is spirit, and the symptom of that spirit is consciousness.

10. Consciousness and Spiritual Intelligence

Savita Srivastava, Prem Prasad Srivastava

The history of the development of our knowledge about intelligence is fascinating. Although leading thinkers had been searching for a long time for any clues as to 'what makes us tick?' and 'What makes us smart?' amazingly, the concept of the Intelligence Quotient has been around for less than 100 years – the first experiments in intelligence testing by 'scientific means' started only at the beginning of the 20th century. Spiritual Quotient is the soul's intelligence. It is the intelligence with which we heal ourselves and with which we make ourselves whole. SQ is the intelligence that rests in that deep part of the self that is connected to wisdom from beyond the ego, or conscious mind. It is not culture-dependent or value-dependent. It is our deep, intuitive sense of meaning and value, it is our guide at the edge, our conscience.

12. How Can We Construct A Macrocosmic Phenomenon From Science Of Consciousness?

Sathiraju Anusha, SNL Sirisha

This abstract gives an alternative approach to macrocosmic phenomena i.e., spiritual inner experiences will be explained with a hydraulic elevator principle. The approach leads to a four-fold pattern, where in first stage; one can notify a specific experience (inner). The second stage will acknowledge from the initial perspective obtained from previous level. While in the third phase, the observer will understand these experiences through learning common factors and their inter-relations (example: factors that include mental aspects such as anxiety, pain etc...) and finally applying quantitative psychometric methods to test in general the functional relationships between these common factors (i.e. propose certain hypothesis and subject them to the test of scientific methodology). This approach follows a quantum-theoretic model, which indicates two methodologies to quantum theory as far as consciousness is concerned. One is due to von Neumann-Stapp formulation and consists of three processes of choice, causation and chance, while the other is the celebrated Penrose-Hameroff Orchestrated Objective Reduction theory which has three parts, the Gödel Part, the Gravity Part and the Microtubule Part.

14. Spin network based diagrammatical study of quantum theory of space-time  
Sonali Bhatnagar, Satsangi Jyoti

To combine the two successful theories of general relativity and quantum mechanics into the theory of quantum gravity, there are various approaches. The road that we chose to study is the application of Roger Penrose's model to Quantum Gravity using the Loop Quantum Gravity. This theory is defined for the continuum nature of space-time that breaks down at the fundamental Planck level, giving way to an intrinsically discrete structure. To understand the nature of space time whether it is discrete or continuous, we use R. Penrose's spin network model where the discretisation is used as a practical tool and perform the diagrammatical study in that model for actually understanding the structure of the universe at a fundamental scale.

15. Meditation (Dhyān) to Super-Consciousness (Samādhi) with reference to the mystic poetry of Swāmi Vivekānanda  
Namita Bhatia, Soami Das Bhatia

According to Swāmi Vivekānanda, there are three states of consciousness-Conscious, Unconscious, and Super-conscious which belong to one and the same mind. The Conscious is on the middle plane. The unconscious is beneath consciousness and there is no feeling of 'I' here. When the mind goes beyond this line of self-consciousness, it is called Super-consciousness or Samādhi. This is the highest level of consciousness and is unaccompanied by the feeling of egoism. To attain this state the mind has to be trained to remain fixed on a certain internal or external point. When it is able to concentrate in this manner, an unbroken current flows towards that point. This state is called Meditation or Dhyān. With the intensified power of Meditation (Dhyān) one is able to reject the external part of perception and remain meditating only on the internal part. This state is called Super-consciousness or Samādhi. In this state everything comes under the control of the mind. This meditative state is the highest state of existence. The meditation must begin with gross objects and slowly rise to finer ones, until it becomes objectless. When the mind becomes strong and controlled, and has the power of finer perception, it should be employed in meditation.

17. Living every moment with the Almighty  
Sumiran Satsangi, Shipra Satsangi

Introspection of our 'Daily Karmas' and surrounding environment around us at the end of the day reveals the condition of our mind which is filled with infinite thoughts at any point of time. It tells us that condition of mind changes every moment and it also reveals our vulnerability in this world at large. Constant struggle with life problems and changing circumstances and condition of our mind (full of numerous thoughts) takes away our power to take right decisions which we all are required to take, again multiple in number each day of our life. It is said that each person is born with a purpose and each person has his trajectory or path defined by the Supreme Being. It would be desirous and beneficial that we try and follow this path and not even for a moment divert from it. But we experience its not possible every moment, i.e. we get disconnected with the path often. We than wonder that we were taking the right decisions till this

time, but suddenly at some hour or some day, our mind changes its track and taking us to the path, which is different to what our inner conscious wants us to follow. The present paper explains the importance of our constant connect with the Supreme Being, our creator at all times. Whether we are sleeping, walking, talking or doing any work. Why the same is important and how can we sustain it at every moment of time is what the paper would explore through questionnaire and personal interviews.

18. Effect of pre sleep meditation (Surat Shabd Yog) on quality of sleep ,dreams and snoring  
Anjoo Bhatnagar, Phool Chand Bhatnagar

Surat Shabd Yog is the sound practice of listening internally to the ever reverberating spiritual sounds via meditation, as prescribed in religion of Saints(Radhasoami Faith).In this practice the attention is directed inwards, to the seat of the spirit at 6th nerve center(ajna chakra) and the downward flow of the spirit current is checked. As the spiritual practice of Sumiran (repetition of Holy Name) and Dhyan (Contemplation of Holy Form) are continued for five to seven minutes, sufficient concentration of attention is obtained and the breathing becomes light. With still further concentration the flow of spirit current is gradually reversed i.e. instead of going down towards the navel, 3rd nerve center (nabhi chakra), it begins to go upwards to the brain. Mostly the dreams people see are due to downward flow of spirit current to the navel and these dreams are bad and dirty and this condition is accompanied by snoring. It's like animal consciousness. If the flow of spirit current is reversed, towards throat or 5th nerve center (kantha chakra) then the dreams are good. Mostly such dreams are true and these may have some premonition also. There is a close link of thoughts and breath. If spiritual practice is performed properly then the breath becomes light and only one hour of sleep may be enough.

19. Quantum Mechanics and Spiritual Consciousness  
Usha K, Aashiq B, Bhupinder Singh, Ashish B

There is a different kind of quantum theory which holds at Spiritual level. There is duality but not the corresponding uncertainty. Duality at will, not duality probabilistically is the key to spiritual upliftment. The above can be explained in terms of the relationship that exists between the individuals consciousness, the deity and the devotee. When the particle so desires, it stands aloof from the wave and observes the glory of the wave, call it the spiritual reservoir versus the particle as the individual spirit force, call it the deity (spiritual source) and the devotee (spirit force). So that is why Ultimate Reality does not have uncertainty. Ultimate Reality is characterized by certainty but with duality. In the physical world, in the mental world also, this duality and uncertainty go together, but in the primary sphere, which is the reservoir of spirituality, this is not so. So it is omni quantum force field which applies there. Since it (spirit force) is not a particle kind of entity, it is called a source-wave to part-wave duality. In this world, the spirit (conscious) force which is the prime source of energy has evolved into various mental and physical forces when it blends with the different kinds of mental and physical media. So in this physical universe, it takes the form of one of the four fundamental physical forces of nature and the one which is easiest to sense is electromagnetic energy. If the spirit is made to ascend to higher regions without having been purified, the result would be that the

impure matter with which the spirit ascends to higher regions, would manifest itself with great force and strength and just as Rishis and Munis of old era fell down from their high spiritual status with great force, we shall also have a similar fate. Therefore at first, purification is a necessary process.

20. Peak Human Conscious Experience- A Spiritual Experience

P Sriramamurti, B Saravanan

According to Eastern wisdom, Consciousness – Chaitanya, is the primeval cause of creation. It had a polarized state even before. The gracious object of spiritualizing the portion deplete with consciousness resulted in creation. The spirit entities inhabiting this part of creation on earth are endowed with physical bodies made of layers of ether, fire, air, water and solid matter and mind. All the spirit entities in their different grades of spirituality have experiences of different kinds. The human body is a microcosm endowed with the gateways to contact and reach different levels of creation – material, mental and spiritual. Potentially it can experience all the states at all the levels. The highly evolved souls – Sants and Param Sants, embodied in human form are capable of having the highest experiences of spiritual awakening. Generally human experiences are confined to objects on the physical and mental planes. With the advent of Param Sants the secrets of gateways to all the higher regions are made known. Consequently, man is today capable of having the highest spiritual experiences. It is evident that the peak conscious experiences attainable by man are the spiritual experiences. They are superior to all physical, mental and aesthetic experiences.

22. Is Entrepreneurship Decision of University Students a Conscious Choice? A Study of students of an Indian University using Triangulation Approach

K.Santi Swarup, Mukti Sr-Narain, Karan Narain

As countries face weaker economic climate, more and more traditional business failures are becoming common. With increasing company failures and diminishing job opportunities, many graduates and students in universities have started exploring entrepreneurship choice. Universities are also providing the eco system for nurturing these initiatives. But the question that remains to be addressed is, are these students conscious of their entrepreneurship choice? A conscious choice requires understanding of various options available to them and based on a goal, selecting the best alternative using a value system which enables them in meeting the goal. The purpose of this study was to study the level of consciousness in entrepreneurship choice of students of an Indian university.

Many studies focused on the entire graduate population for evaluating the level of preparedness of students. We are applying mixed scaling method where only those students willing to spend extra hours in exploring this opportunity were considered. We have used the dimensions of knowledge, attitude, skills, experience, opportunity and networks. Also the demographic variables like gender, age, stage of graduation, funding source, family background etc. were considered in identifying the variation among the students. We have collected both quantitative

and qualitative data and triangulated with the existing secondary data evidence. The results of this study have implications for the entrepreneurship initiatives.

23. Intuitive Consciousness Guides and Prompts an Individual's Decision Making

Arti B, Aashiq B, Ashish B, Geetha K

Consciousness is our most prized possession. It sets us apart from the opulent variety of earth – life and puts upon us an onus of responsibility. It takes us on incredible journeys and has given us the gifts of insight and transcendence. The same kind of process that gives the earth abundant life allows us to have a sense of self, to contemplate the world, to forecast the future and make ethical choices. Each of us has under our control a miniature world, continuously evolving, making constructs unique to our own minds. In the same way that life itself unfolded, our mental life is progressively enriched, enabling each one of us to create our own world. Intuitive Consciousness, as perceived by a common man, is the power of Thinking without Thinking as told by Malcolm Gladwell. An art expert sees a ten- million-dollar sculpture and instantly spots it's a fake. A marriage analyst knows within minutes whether a couple will stay together. A firefighter suddenly senses he has to get out of a blazing building. A Speed dater clicks with the right person ...Those moments when we 'know' something without knowing why. How a snap judgment can be far more effective than a cautious decision by trusting our instinct. The present paper attempts to emphasize the significance of Intuitive Consciousness when developed in evolving man helping him ascend from *Apara vidya* to *Paravidya*, guiding his consciousness in decision making and leading a fruitful life.

26. Embodied Spirit as a Bound State in an Open Multiple Quantum-Well System

Sukhdev Roy

In this paper, we examine the human form as an embodied spirit in a bound state and analyse its functions based on the theory of open quantum systems, in which the interaction with the environment is also taken into account. We extend the framework of the spiritual-psychophysical quantum vibrational theory presented in TSC-2015 to incorporate open quantum systems. It is shown that the spirit entity as described in *Taittiriya Upanishad*, to exist in five different *koshas*, can be considered to be in multiple metaphysical quantum-wells of the mind and body. The conscious state is a superposition of these vibrational energy states and variation in attention within can lead to resonant tunnelling between the quantum-wells. Meditation on the primordial spiritual sound currents can enable the spirit to resonate to higher energy states enabling transitions into the continuum and into the unbound state. The proposed theory provides plausible explanation not only for various states of consciousness, but also a wide range of parapsychological phenomena that includes intuition and healing.

29. Stepping Towards Conscious Marketing: A Case Based Approach

Ishika Agarwal, Shalini Nigam, Sanjeev Swami

In management functions, marketers have changed the business largely into “Business of Advertising.” This existing over-polluted marketing atmosphere has victimised the customers. Marketing in the 21st century reflects a more self-centric mind-set and as such there is a need for shift from traditional marketing to conscious marketing. This paper tries to awaken organizations towards marketing which is more harmonic and humanistic in nature (i.e., conscious marketing). In the words of Carolyn Tate, Head, Carolyn Tate & Co. “The business of business is no longer business. The business of business is to make the world a better place” (Carolyn, 2015). For the healthy functioning of the economy, Conscious Capitalism, Inc. a non-profit organization has provided 4 pillars of conscious business viz. higher purpose, stakeholders orientation, conscious leadership and conscious culture ([www.consciouscapitalism.org](http://www.consciouscapitalism.org)). Further, companies like Ben & Jerry’s, Google, IBM and Starbuck’s are practicing conscious marketing. These big names have inspired many other ventures to practice conscious marketing. This “inside out” approach is not easy to follow but some businesses are so authentic, harmonious, and right away tap into the heart of their people (clients/customer) to create their own unique marketing message. Through case based approach this study will examine such kind of businesses and their story of creating unique marketing and socially powerful business. The slow and gradual successes of these ventures are inspiration to all for delivering what is true and indeed needed by society. Finally, a framework is prepared in which a blueprint is proposed so that other companies or businesses can follow a path that leads to conscious marketing. Thus, this paper will propose a path (series of steps) by which an organization can slowly and gradually move towards conscious marketing, so that marketers can create their ideal clients and build their business which is consciously active for society at large.

### 32. Pharmacological cause of Consciousness Phenomena

Seema Bhat, Laxminarayan Bhat

The scientific evaluation of consciousness phenomena has become one of the thrust areas of biomedical research due to its important role in the spiritual, physical, mental and social wellbeing of mankind. Different spiritual practices have been followed across the world to achieve higher levels of consciousness but widely adopted methods are prayer, meditation and yoga. Although the ultimate goal is to achieve higher levels of consciousness, no two methods of spiritual practices can lead to the same level of consciousness as they differ in many aspects. Some spiritual practices focus on the particular Chakras in the body/brain and others on sound, colors and particular form of physical activities such as dance. Therefore, the qualitative and / or quantitative outcome of each spiritual practice can vary to a great extent and this is one of the biggest challenges in the scientific evaluation of consciousness phenomena. Regardless of the method of spiritual practice, the outcome of a spiritual activity leaves signature trails of neurological and physiological changes in the body due to pharmacodynamic effects. Thus, the study of pharmacological cause of consciousness phenomena can be very useful in the scientific evaluation of qualitative and quantitative outcome of different spiritual activities. We present the key biogenic monoamine receptors possibly involved in the consciousness phenomena, their expressions in the human body/brain, and the scientific rationale of receptor level interactions between cosmic waves and human body. We also discuss in this paper the pharmacological cause and evidence to explain the correlates of consciousness and scientific



rationale for differential qualitative and quantitative outcome derived from different spiritual practices.

35. Fourier Analysis of the Cosmology and Phenomena of the Religion of Saints  
Prakash Sahni, Pooja Sahni

In the past versions of TSC, we have done frequency domain or Fourier analysis of the lights and sounds of the religion of saints. The sounds of the religion of saints have been characterized using harmonics associated with the musical instruments which produce the sounds. The lights of the religion of saints have been characterized using color temperatures associated with the sources of illumination which produce the light. In mathematics, representation theory is a technique for analyzing abstract groups in terms of groups of linear transformations. The Fourier transform techniques can be applied to cyclic groups and by extension to finitely generated abelian groups. The cosmology of the religion of saints describes three grand divisions of creation. There are six sub-divisions of each grand division of creation. In the current work we use the Fourier analysis to analyze the cosmology of the religion of saints.

36. (A) Augmenting (A) Action for (D) Disaster Management through (I) Indigenous Knowledge (Gyan): A.A.D.I. GYAN - CONSCIOUSNESS: A Digital Library Initiative  
Sanjay Bhushan, Sanjeev Swami, Shiv Kumar Sharma, Anand Mohan

Environmental conservation and disaster management are vital to the sustenance of the livelihoods of Indigenous people and their communities who often live in hazard-prone areas. These communities have built up, through thousands of years of experience and intimate contact with the environment, a vast body of knowledge on hazards and the environment events. This knowledge is a precious resource that continues to contribute to environmental conservation and disaster management in these regions. Indigenous knowledge, in fact, should be considered as a complement to scientific knowledge in the development of community based disaster mitigation and risk management plans and programs. However, with the disruption of traditional lifestyles and changing settlement patterns, it is a challenge to maintain the continuity of traditional knowledge through transmission from generation to generation.

To address these issues, this project endeavors to highlight the utility of promoting a global scale and commonly shared digital platform for dissemination and enrichment of Indigenous knowledge and practices across eco-communities of India and abroad based on a fully developed and functional web-portal branded - A.A.D.I.GYAN.- Augmenting Action For Disaster Management through Indigenous Knowledge ([www.aadigyanproject.in](http://www.aadigyanproject.in)). This portal is a part of digital library initiatives for documenting, preserving and promoting the role of Indigenous knowledge in mitigating natural and man-made disasters, particularly among Eco-communities.

37. A spiritual quantum theory of perception and qualia  
Prem Sundaram, Mani Sundaram

The problem of qualia is at the heart of consciousness research. Researchers are still far from any solution. This is mainly because their approaches are mostly materialistic, analytic and objective. A physicalist approach alone cannot solve this problem because the perceiver is spirit, not the brain or mind. However, the finding of information processing at higher frequency at quantum level in subtler microtubules, is a very significant discovery and supports our theory that knowledge involves processing at deeper level of reality. But, the deeper physical reality can show all the characteristics of consciousness, but is not real consciousness. It only mimics or reflect the latter. Hence, in order to know real consciousness itself, we need a holistic view of reality and include intuition as our method, to reach ultimate reality, the region of pure consciousness .

38. Comparative study of Role of Consciousness in Creational Cosmology as per Rigveda and Modern Science  
Abhitosh Tripathi

This paper looks at creational cosmology of Rigveda as described in Nasadiya, Hiranyagarbha and Purush Sukta and attempts to show that Rigveda explores many concepts which are akin to Modern Cosmological theories such as Big-Bang, Steady State and Oscillatory Theories. In the process it also compares Rigvedic view related to underlying principles of Physics such as Quantum Mechanics, Quantum Field Theory and standard Model and Consciousness Studies. Rigveda hypothesises and draws conclusions on the conditions prior to creation which Science considers to be point of singularity beyond Laws of Physics.

Rigveda's view envisages one conscious reality behind the entire manifest and un-manifested world. This paper looks at variations in pre-creational conditions described in Rigveda where entire matter of universe was either non-existent or confined to a minuscule space. Science is still attempting to come to terms with this where some favour a Big – Bang and some favour the concept of universe being created out of empty space or nothingness. Rigveda's manifest universe has both visible and invisible components and recent theories of Modern Science about Dark Matter and Dark Energy correspond to this. Conclusions of Science in terms of ratios of manifest matter, dark matter and dark energy, in percentage terms are remarkably similar to those of the Rigveda's views. Rigveda holds that evolution started with heat and desire (a conscious element) thus permitting entry of a conscious element. Science meets this partially allowing only for a gigantic explosion or Big Bang as cause of primal creation. Rigveda's view does not have a problem of entropy with which Science is still grappling. As per Science, entropy of the universe will continue to expand whereas Rigveda's view defines universe as cyclic. This paper also looks at Ten Dimensional world view of Rigveda which goes beyond four dimensions of (three dimensional) space and time and finds favour in Modern science where some believe in 10 and some in more than 10 dimensions.

40. Spiritual Consciousness: Realization of the Unity of Self with Universal Self  
Sahab Pyari Sinha, Surat Pyari Sinha

Higher consciousness, super consciousness, or spiritual consciousness are expressions used in various spiritual traditions to denote the consciousness of a human being who has reached higher level of evolutionary development and who has come to know reality more accurately. It also includes the development or knowledge of an “Ultimate reality”. Spiritual consciousness is a deep experience, it makes us conscious of the deeper dimensions of life. It is an abiding inner awareness of the interconnectedness of one’s own spirit (Jeevatman) with the supreme spirit (Parmatman), of one’s individual self with the universal self (God). The human spirit is beyond the limitations of time and space. This awareness of the immortality of the human spirit opens our hearts and minds to a transcendent reality. This awareness that there is a ‘higher self’ working within us and guiding our lives is the first stage in our quest for developing spiritual consciousness. Once our ‘inner eye’ is opened to the transcendent reality, we gradually become more and more aware of the interconnectedness of the human spirit and the supreme spirit. Our spiritual consciousness deepens and we develop a devotional approach to the supreme spirit, God. We become devotees and bhaktas of this personal Lord, Ishta Deva . This can be seen as the second stage in developing spiritual consciousness. The spiritual consciousness blossoms to its full potential when the jivataman and the paramataman, the human spirit and the supreme spirit, the individual self and the universal self, enter into deep communion of love. This is the stage when we become truly ‘liberated souls’, jivanmuktas. This is also a stage of the mystic. We become one with the whole. This stage can be seen as the ultimate destiny.

#### 44. Spiritual Consciousness- A Democracy of Love

Prem Kali Sharma, Payal Sharma

Love is the basic teaching of all the religions. All the religious leaders are endowed with a peculiar kind of love. This love is unchanging and experienced by the seekers of respective faiths and those in misery. It is astonishing and esoteric. It is the wonder of wonders and it is democratic. This democracy is due to the consciousness. As the spiritual consciousness prevails, love sets in, but this love is different from the love in the common notion. It is far more rational and uniform in nature and democratic in exercise, doesn’t discriminate between two people. It is the love that helps one meet the goal of human life. The democracy of love achieves consummation with progress of spiritual consciousness. We study the correlation of Love Democracy and Spiritual Consciousness in this paper. Throughout this paper, by the term Love we do not mean the love for worldly things or relationships but the love that is free of all such associations. It sure is abstract but is easily understood by those who have had even one brush with it.

#### 45. Consciously Directed Thinking

Rahul Mathur, Vineeta Mathur

In Eastern Philosophy the history behind thoughts are called samskaras. A group of mutually reinforcing individuals with an orchestrated thought process through a belief system can be called satsanga. Association with such a group (satsangatya) provides a facilitating environment to obtain a directed change overriding the genetic program in an individual. If the goal is not self-perpetuation, it is possible that one can neutralize the genetic program of self-perpetuation written in the genes. Epigenetics is trying to throw light on the rationale of the ancient teachings

which say that consciously directed thinking can bring about a change in our personality. Consciously directed thinking enables one to overcome the babble in one's mind, and free oneself from its compulsion, but this requires training. You can then change thoughts when you choose. There are no short cuts to inner peace which eventually leads to external peace. By creating peace in your inner world, in your mind, you bring it into your external world, and into other people's lives. You see the world from the heart because you are an emotional, mental, spiritual and physical being. Everything is defined according to a type of consciousness. What Mind consciousness does is more important than what it is. The 'platonic values' spoken of by leading scientists are explained in the Eastern Philosophy as the concept of the Universal mind. Teachings of Oriental Saints advocate that to be liberated, we need to go beyond Material consciousness, mind consciousness and understand the Transcendental Consciousness beyond and become enlightened.

46. Extension of Psychological Human memory model to include Chidakasha  
Gaurav Mathur, Reena Mathur

Human mind is the most complex part of the human body which the scientists and psychologists are still struggling to decode. The Atkinson–Shiffrin model of human memory is considered a pioneer approach of decoding the human memory though much refinements have been done on that too. However if we now analyze the concept of Chidakasha, the concept of Karma theory as given in Sant Mat and Hinduism, we find scientists only focusing on the “sthool” sharira and neglecting the “sukhsma” and the “karana” sharira which carry on to live even after our physical death and which are plausible explanations of memory surviving in people of their earlier births. This paper attempts to extend the The Atkinson–Shiffrin model to include the effects which are said to be permanently stored in the Chidakasha and which is the source of guidance of karmas in our present lives as per the beliefs of Hinduism and Sant Mat.

47. Six Sigma Spirituality – An Eastern Methodology  
Gazal Mathur, Sohng Mathur, Bhakti Mathur, Mrityunjay Mathur

The recent Hollywood blockbuster ‘Interstellar’ addresses a concept which we are still grappling with – reality beyond our physically perceived dimensions. Where the third dimension offers a sense of comfort – the fourth dimension comes with greater perceptual challenges. The dimensions beyond that of course seem far beyond our conceptual ability. Yet we now believe them to be the realm of reality. It however stands to reason that if it is real, then it must be perceivable. A physicist may be able to offer a logical rationalization of the existence of innumerable dimensions but an enlightened sage may be able to give you an experiential account of them. Thus the amalgamation of science and spirituality seems to be not only a probable but beneficial eventuality. If we similarly divide our persona into two factors – the internal and external, we may begin to see a vast divide between the two. We are well acquainted with our external self but the internal still eludes us. Spirituality deals with our internal identity. This paper addresses the need to engage with the internal without defacing the external. It offers a methodology by which one can come full circle - realize higher dimensions, and as seen from the Eastern philosophical perspective, attain higher spiritual levels of consciousness as well as becoming a contributive member of society. Six Sigma is a concept that may prove significant in

our endeavor. It has proven useful in the business arena as it seeks to improve the quality of process outputs by identifying and removing the causes of defects (errors) and minimizing variability.

48. A Critical Analysis of Pain and Pleasure and its Consequence at Different Levels of Consciousness

Sohang Mathur, Gazal Mathur, Bhakti Mathur, Mrityunjay Mathur

This paper aims to establish that true pleasure lies at the seat of the spirit entity and nowhere else. The body and mind are covers which dim or obscure our true essence or spirit force. Pain is a result of the diffusion of this spirit energy. On the other hand, when there is a concentration of spiritual energy at any sense organ, we derive pleasure. One may consequently assume that if we rid ourselves of the body and mind, we are left with only the spirit (the true source of pleasure) but contrary to this belief, the body is the instrument given to us to commune with higher levels of perception. It is equipped with nodal centres in the body as well as ganglia in the brain which help us to connect to elevated planes of consciousness. These higher planes move towards spirit intensive regions where the existence of pleasure is on a constant upward trajectory. Thus the body, mind and soul are a package deal awarded to human beings in order to attain the much alluded awareness of pure bliss.

53. Lower-Consciousness to Cosmic-Consciousness With reference to Huzur Maharaj's Pilgrim's Path and Dante Alighieri's The Divine Comedy

Namita Bhatia, Soami Das Bhatia

The mystics believe that man has the hidden potential for awakening higher levels of consciousness. But it is beyond sense perception and manifests inwardly. It is associated with the bliss of extraordinary intensity culminating in the ecstasy of an experience of union with God – the Supreme source of consciousness and spirituality. During the past five to seven hundred years, beginning with the advent of Sant Kabir there has been a succession of great Saints whose teachings are uniform in nature and may collectively be called as the Religion of Saints. Kabir Sahab, Guru Nanak, Paltu Sahab, Jagivan Sahab, Tulsi Sahab, and Soamiji Maharaj are the Saints in this tradition. These Saints have spoken of higher regions of creation beyond Parabrahmapada of the Vedic religious tradition. They have all stressed on the importance of Bhakti of a True Guru, concentrating on and listening to the ever reverberating internal spiritual sounds via meditational practices, living an ethical and moral life, stressing the brotherhood of man and attaining oneness with the Lord. The Pilgrim's Path is one of the significant holy books of the Radhasoami Faith. It consists of letters written by Param Guru Huzur Maharaj to various satsangis. Though the letters are of a private nature and refer to particular cases but the subject matter dealt with in them concerns all pilgrims travelling on the path of spiritual development.

57. Towards Machine Consciousness: Leveraging Neural Networks And Analytics For Improving Business Processes

Alakh Bhatnagar, Umang Bhatnagar, Shalini Nigam, D.K. Banwet

A tangible step towards achieving Machine Consciousness is to record, analyze, and model the functioning of conscious entities and then applying these models to make machines more efficient at what they do. The last decade witnessed the internet revolution which has been the biggest innovation since the industrial revolution. The exponential advancement in internet and digital technologies has fundamentally changed the way data is generated, collected, stored, and analyzed for insights. At the same time the number of machines getting connected to each other increased manifold, created a new ecosystem of connected machines, and started harnessing large amount of performance data available for enhanced efficiency. The new age machines not only use data, but now have the ability to create models, predict outcomes, evaluate results and make a conscious decision to alter their own performance to optimal levels. As the new age business processes get connected to digital infrastructure, the industry is looking forward to reaping benefits at industrial scale by leveraging analytics and networks. Neural network analysis is one such example which takes inspiration from the functioning of human brain. Neural Network Analysis gives business processes the capability to alter their performance and deliver optimal levels of performance. This paper aims to quantify benefits that a business process can reap by leveraging neural networks and analytics. Representative data set of business process (transactions) was accessed from publicly available sources and analyzed using artificial neural networks and other analytical techniques on the statistical computing software R. The results demonstrate that by leveraging neural networks and additional analytical techniques, business processes can decrease process down time and improve both efficiency and accuracy. This paper also aims to explore further applications of neural networks and analytics while Internet-of-Things (IoT) goes on to connect several industries and pushes the machines from being smart to consciously efficient.

58. The Matrix of Consciousness: Guru Influences Disciples through Spiritual Force Field at His Will

Surat Kumar, Kavita Kumar, Bhakti Kumar, Reeti Kumar

It was proposed earlier that every individual with inherent spiritual force field, is in communion with Guru. Guru through his spiritual force field can influence the disciple in the process of spiritualization. Spiritualization, does not depend on the distance. Guru affects spiritualization from a distance, through spiritual domain of spiritual force field. This process of spiritualization can manifest through its various coordinates. The spiritual force field is the prime force field of the region of pure spirituality. It can influence the forces of physical world. Spiritual force field cannot be detected by physical means. Some effects like appearance of  $\gamma$ -waves in the proximity of the Guru creates resonance with the spirit currents of the disciples in the proximity of an adept. Such resonance can still be generated by the Guru, even when the disciples are situated at far-off places. These effects are manifested when the disciples establish perfect communion with the Guru. This process of spiritualization induces the consciousness of the Guru in the disciples. But this spiritualization is quantized in step-by-step manner through levels/grades. This process can be further identified as the spirituality further advances.