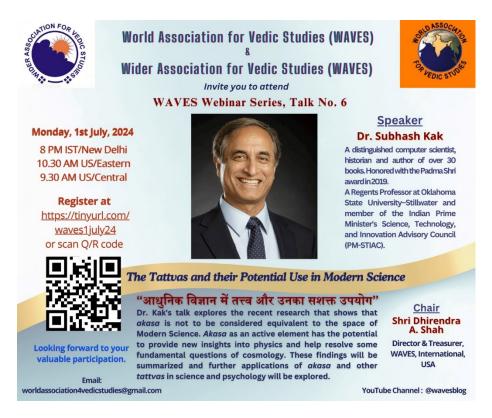
REPORT

'The Tattvas and their Potential Use in Modern Science.' Webinar organized by WAVES
July1, 2024

WAVES recently hosted Dr. Subhash Kak, a distinguished computer scientist, historian, and author who has been honored with the Padma Shri award, to lead their monthly webinar. During the webinar, Dr. Kak delivered a presentation on the topic of "The *Tattvas* and their Potential Use in Modern Science," exploring the practical application of the Tattvas in fields such as consciousness studies, neuroscience, and the development of cutting-edge technologies. The speaker provided valuable insights into how the *Tattvas* could inspire innovative solutions to complex problems.



Leading into the question of what consciousness is, he cited a line from the Kulgeet of the WAVES organization: "Take us from 'Apara' to 'Para." In the Vedic tradition, Apara represents knowledge of the outer world, including the physical realm and all embodiments.

Conversely, *Parā* knowledge relates to transcendent knowledge associated with the Atman, or consciousness. According to the Vedic perspective, these two forms of knowledge are complementary aspects of reality.

Dr. Kak articulated, "Consciousness is transcendent and lies at the core of the Vedas; it permeates like light, and there exists only 'One' consciousness." Additionally, he conveyed that freedom is attained through becoming cognizant of consciousness and realizing one's identity as Atman-Brahman. "Atman is the microcosm, and Brahman is the entire cosmos, both in a reflexive relationship; this awareness is what separates a two-legged paśu from a four-legged paśu. Manas is how we operate through the world, but the anchor is the Atman."

The speaker emphasized that today's predominant focus on the body-centric or *Apara* view of reality, while not inherently wrong, is incomplete and has contributed to global confusion and delusion; when one thinks of oneself solely as a physical body, it becomes natural to view concepts like gender as interchangeable, challenging the foundation of traditional biological norms.



He then raised the question, "How can the concept of Consciousness get integrated with the mainstream science narrative and transform science?" Dr. Kak spoke of the limitations of mainstream science compared to the insights offered by Quantum Mechanics, aligning with the Vedic tradition and recognizing consciousness as another aspect of reality. He also drew parallels between the Vedas and the Deepest Science. One profound insight is the Vedantic concept of 'Shristi Drishti Vada,' which asserts that creation occurred through observation. Quantum mechanics has challenged traditional scientific paradigms with phenomena like superposition and observer effects, echoing the notion that consciousness may indeed play a fundamental role in the evolution of the universe.

In his research, Dr. Kak discovered a synthesis between the 25 cognitive centers found in neuroscience and the 25 Tattvas in the $S\bar{a}nkhya$ system, which forms the foundation of the Vedic understanding of reality. Dr. Kak explained that "the $\bar{A}kasa$ Tattva, rather than simply representing space, is a vital element. In this 'E-dimensional' space, every point in physical and biological space is $\bar{A}kashic$, constantly connected to every other element. $\bar{A}kasa$ serves as the medium of Consciousness in the Vedic model of the mind."

The basis of this theorem, as expressed by Dr. Kak, lies in the Brihadāranyaka Upanishad; in this text, the sage Yājnavalkya tells Gargi: The Tattvas are all entangled; within $V\bar{a}yu$ is $\bar{A}kasa$, $\bar{A}kasa$ is within Tejas, they are all within each other and not separate. This concept inspired Dr. Kak's research, marking the beginning of his eight-year journey into exploring these interconnected principles.



Following the conclusion of the presentation, the Chair of the program, Director, and Treasurer of WAVES-International expressed profound gratitude to Dr. Kak and then invited questions from the audience.

Renowned economist and academic Professor Lallan Prasad inquired, "Among the Five Tattvas, $\bar{A}kasa$ take up the most space; it exists both within and outside the body and throughout the entire Universe. Considering this, which Tattva came first?" Dr. Kak's response emphasized the complexity and ambiguity surrounding the concept of the primordial Tattva, particularly focusing on $\bar{A}kasa$ and its presence across different elements. "Just as sage Yājnavalkya said, $\bar{A}kasa$ is also present in the other tattvas. Therefore, if one analyzes the physical element - the $Bhautik\ Tattva$ - as most Modern Sciences do, great insights can be extracted from there."



Dr. Shashi Tiwari, President of WAVES, India, praised Dr. Kak for delivering a 'thought-provoking' lecture and posed a question regarding $\bar{A}kasa$. "In the Rigveda and other Vedas, various terms such as Duo, Swaha, and Diva are used for $\bar{A}kasa$. We commonly understand it as light space, and Antaraiksha as aerial space, and Prithavi as our space, where we can perceive things. What is the connection between Duo and $\bar{A}kasa$?"

Dr. Kak, in his response, mentioned the correlation between the Five Tattvas and the Five Indiras. Additionally, he noted that Prithavi is connected to the sense of smell, while $\bar{A}kasa$ is associated with hearing. He clarified that $\bar{A}kasa$ is not directly linked to sound but rather to the message carried by the sound wave. Dr. Kak emphasized that transcendent knowledge is conveyed through Akasa, serving as the medium through which Jivatman or Manus connects with the Higher 'Cosmic' Reality. However, he highlighted the need for further examination of this matter.



After the engaging Q&A session, Shri Dhirendra A. Shah officially announced the dates for the upcoming 'WAVES 2024' conference at the Hindu University of America (HUA), Orlando, Florida, September 13-15. Dr. Kak is set to present his paper aligning with the conference theme. Concluding the webinar, Dr. Aparna Dhir Khandelwal, the moderator, expressed gratitude on behalf of WAVES to Dr. Kak and all the attendees for their unwavering support and active participation.

Overall, the webinar was highly interactive, with a knowledgeable audience of scholars and academics actively participating. Attendees posed thought-provoking questions to Dr. Kak. The session facilitated a rich exchange of ideas and insights.

Several attendees shared their sincere thoughts following the event:

"Attended presentation by a US university professor of Physics and Computer Sciences, expanding on Tattvas, and importance of Aakash... He is published in the Nature magazine journal, a journal where potential Nobel Laureates publish, and is a recipient of Padma Shri award from India." by Shri Charan Manektala, USA.

"It was a wonderful lecture given by Prof. Subhash Kak; it has enlightened much as it is very close to my humble effort to explore the mystery of the origin of the universe." by Dr. A.R. Tripathi.

"A very enlightening lecture by Dr Subhash Kak with Vedic references and modern scientific research. Learned audience and high-level discussion made the session lively. Thanks to Dr Subhash Kak for accepting WAVES request." commented Dr. Shashi Tiwari in the concluding hour in the chat box.

YouTube Link of the Talk: https://www.youtube.com/watch?v=-OSYpDuVqlw&t=2428s

Information about 'WAVES 2024' Conference: https://thewavesinternational.com/

Report by:

Supriya Chopra