

Karnataka Association for the Advancement of Science (KAAS) Annual Report April, 2024-March, 2025

Key Achievements:

- Launched the official website: **kaasorg.com**.
- Broadened institutional outreach and engagement.
- Enhanced digital visibility with the launch of the official website.
- Fostered deeper collaborations with educational institutions.
- Reinforced commitment to advancing scientific education and research.
- Continued consistent publication of **KAAS NEWS**. (5 issues are published)
- *Vaisheshika* – A new newsletter of KAAS launched
- Conferred KAAS Fellowship upon distinguished scientists.
- Revised byelaws printed and uploaded on KAAS website.

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- **Teacher Facilitation Program:** Davangere University hosted a three-day (June 26-28, 2023) interactive self-learning program to enhance the efficiency of its teaching and non-teaching staff. Initiated by Vice Chancellor Prof. B.D. Kumbar, the camp featured sessions led by human resource development trainer Dr. Mukta B. Kagali, geosciences expert Prof. R. Shankar, and nuclear technology specialist Prof. K. Siddappa, President of KAAS.
 - **Website Launch:** KAAS launched its official website (kaasorg.com) with contributions from the Website Committee led by Dr. Shankar. Prof. Jawahar Doreswamy, Pro-Chancellor, PES University flagged off the KAAS website on August 29, 2024.



- **KAAS office:** The new office of KAAS was inaugurated at Panini Block, PES University, Bengaluru.



- **KAAS Newsletter:** Initiated a new periodical – *Vaisheshika*. Launched by Prof K. J. Rao, retired Professor from IISc, Bengaluru.



- **Geoheritage Proposal:** A proposal to the Karnataka Government on geoheritage sites was positively received, with further discussions scheduled.
- **Annual Science Day Lecture:** Dr. Dinesha K. Srivastava delivered an insightful lecture on **Climate Change and Sustainable Energy** at PES University on 25th March 2024.
- **EC meetings:** Over the year, nine Executive Committee meetings were conducted to strategize and review KAAS activities.
- **Academic Leadership & Recognition:**
 1. Dr. R. Shankar was invited to the International Earth Science Olympiad, Beijing, China in August 2024 as its Coordinator.
 2. Dr. G.N. Dayanand received recognition at the CSIR Foundation Day at NAL.
 3. Dr. Mahesh, K.K. won a prize for the Kannada science article *Sristiya Arivige Neravaagalu Higgs Boson*.
 4. Dr. Mahesh, K.K served as a Resource Person for high school, college and public outreach activities
- **Educational Initiatives:**
 1. KAAS conducted a Brainstorming Workshop on **Collaborative and Advanced Research Project Proposal Presentations"** at BIET, Davangere, October 21, 2024.

2. Dr. R. Shankar participated in the National Seminar on **Geoscience Education** at IIT Bombay (October 19)
3. Dr. Basavaraj Kagali conducted live science demonstrations at BBMP High School (October 25, 2024) and Siddaganga Public School (October 28, 2024).

- **Members' Engagements:**

1. Hosted "Astronalityca" - a podcast with Sri H.D. Anand, Retired ISRO Group Director at BMS Engineering College (October 28, 2024).



2. Dr. G.N. Dayanand served as Chief Guest for Kannada Rajyotsava at Godrej County.



3. Dr. B.A. Kagali inaugurated the Karnataka Jnana Vignana Samiti, RR Nagar Branch, Bengaluru (August 1, 2024).

Invited talks by:

Dr. Mahesh, K.K.

Indigenous Technologies for Viksit Bharat at A.J. Institute of Management of Engineering and Technology, Mangaluru (23-02-2024).

Dr. B.A. Kagali

1. **Quantum Physics and Quantum Technologies** - a presentation at SDC PU College, Kolar (April 1, 2024)
2. **Albert Einstein's life and legacy** – a lecture at St. Philomena's College, Mysore (April 18, 2024)
3. **End Stages of Stars** - a presentation at Birla Institute of Fundamental Research, Bengaluru (September 28, 2024)
4. **C.V. Raman's life and legacy** – a talk at Government High School, Thanisandra (November 9, 2024)
5. **Artificial Intelligence** – a lecture for Physics teachers at Sri Chaitanya College, Ballari (December 29, 2024)

Prof. B. Rudraswamy.

6. Presented KAAS activities in Bengaluru & BIET, Davangere during the Brainstorming Workshop on **Collaborative and Advanced Research Project Proposal Presentations** at Bapuji Institute of Engineering and Technology, Davanagere, 21 October 2024.
7. Delivered a special online talk on **Nuclear reactors** on November 10, 2024 organised by Karnataka Physics Association, Bengaluru.



Prof. R. Nagendra

8. **The Widespread Plastic Predicament: Uncovering the Subtle Impact on Our Planet Earth**, BGS Institute of technology, Adichunchanagiri University on 22-4-2024.



Workshops and Demonstrations by Dr. B.A. Kagali

1. Science teachers' workshop at Agastya Foundation, Kuppam (September 2, 2024)
2. Low-cost physics experiments at multiple institutions:
 - Rajeshwari School, RR Nagar (September 14)
 - Siddaganga Public School (October 18)
 - Multiple BBMP schools in Bengaluru (October-November)
 - Gavi Siddeshwara PU College, Koppal (December 28)
3. Teachers and research students' workshop at University of Mysore (December)

Publications:

Dr. Mahesh, K.K.

1. Kannada article: **Nobel feather for a journey from physical science to computers** in Vijaya Karnataka – ViKa Prastuta (November 25, 2022)
2. Kannada article: **Passage of an era in the field of computers - Gordon Moore** in Vignana Loka (January-February 2024)
3. Authored the bilingual e-booklet - **Discoveries within the Solar System** - published by CSIR-NAL Kannada Sangha (released on November 27, 2024)

Dr. Dayananda, G.N.

4. Bilingual e-booklet titled **Discoveries within the Solar System** on 27 November at CSIR-NAL on the occasion of the golden jubilee celebrations of the Kannada magazine 'Kanada' published by CSIR-NAL Kannada Sangha.



KAAS honours and felicitations & Participation in important events

1. On 17.07.2024 a grand felicitation program was held to honor Dr. K. Siddappa, President, KAAS, in recognition of his immense contributions to science and education. The event, attended by numerous dignitaries and a large audience, celebrated Dr. Siddappa's impactful career and dedication to advancing scientific knowledge. A commemorative volume dedicated to Dr. Siddappa, edited by Mrs. Muktha B. Kagali, was released during the program. The event was marked by heartfelt speeches, tributes, and an overwhelming display of respect and admiration from all those present.



2. KAAS Honorary Fellowship conferred on Prof. G. K. Narayana Reddy, Eminent Scientist in the field of Chemical Sciences.



The Global Academy of Technology, Bengaluru, celebrated the graduation ceremony for the 2020-2024 batch of students on its premises. Dr. G. N. Dayananda, a member of the Executive Committee of KAAS, was the chief guest. The event honored the graduates' achievements and marked a significant milestone in their academic journey.



3. Dr. R. Shankar, a member of KAAS, guided the organisation and conduct of the 17th International Earth Science Olympiad (IESO) held in Beijing, China. The event, which brought together young high school students from around the world, focused on promoting Earth Science education and international collaboration among students and experts. As a seasoned geoscientist, Dr. Shankar contributed his expertise to the event, assisting in the evaluation of participants and sharing his knowledge on contemporary issues in Earth science education. His involvement not only highlighted the global relevance of Indian scientific expertise but also strengthened KAAS's commitment to fostering international cooperation in scientific education.

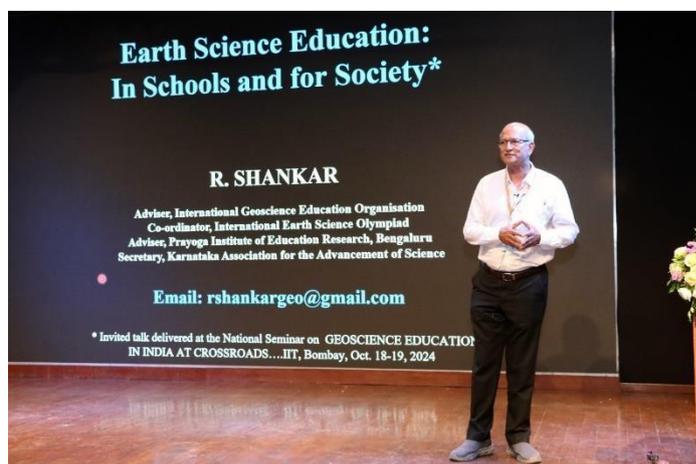




4. Jnana Vignana Samithi proudly inaugurated a new branch in the Rajarajeshwarinagar Vidhanasabha constituency. Dr. Basavaraj A. Kagali, Vice-President of KAAS, graced the event as chief guest. His presence underscored the importance of this expansion and the commitment to fostering scientific and educational advancements in the region.



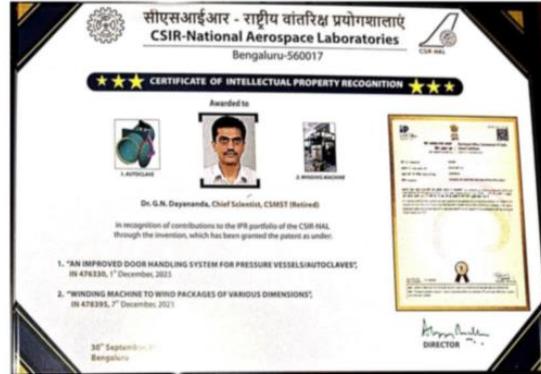
5. A National Seminar to brainstorm the **Repositioning of Geoscience Education to Meet Changing Industry and Societal Needs** was held at the Indian Institute of Technology Bombay on October 19, 2024. Dr. R. Shankar, Secretary, KAAS actively contributed his expertise to aligning geoscience education with the evolving demands of both industry and society.



6. Dr. Basavaraj Kagali actively engaged students with live science demonstrations at BBMP High School on 25th Oct and Siddaganga Public School on 28th Oct. In this interactive session, Dr. Kagali used simple, low-cost experiments to showcase scientific principles, sparking curiosity and encouraging students to explore the wonders of science.



7. Dr. G.N. Dayanand was recognized at the CSIR Foundation Day event held at NAL. He received this esteemed award for his contributions during his tenure as Chief Scientist at NAL. His dedication and innovation continue to inspire the scientific community.



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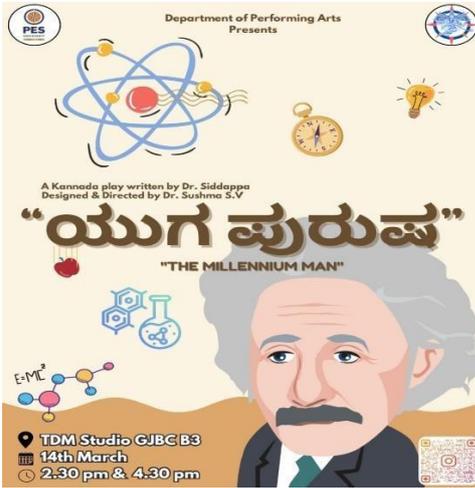
KAAS Fellowship Program Salutes Scientific Excellence!
ಆತ್ಮ, ಡಾ.ದೊರಸ್ವಾಮಿ, ರುದ್ರೇಗೌಡರಿಗೆ ಫೆಲೋಶಿಪ್ ಪ್ರಶಸ್ತಿ ಪ್ರದಾನ



9 Mrs. Mukta, Member of KAAS and Editor of KAAS Newsletter has been awarded Doctorate degree of Kannada Hampi University.



10 A Kannada Play on “ಯುಗಪುರುಷ” (The Millennium Man) based on Albert Einstein’s life history written by Prof. K. Siddappa, President of KAAS & former Vice chancellor of Bangalore University was exhibited in PES University, Banashankari, Bangalore on 14 March 2025.



11. On the event of national science day celebrations jointly by KAAS and PES university, Dr Balakrishnan of IISc delivered an illuminating talk on AI and its impact on science and society.



12. Dr. R. Shankar, Co-ordinator, International Earth Science Olympiad (IESO), visited Jining, China to inspect and guide the academic and logistics preparations for the forthcoming IESO in August 2025.



13. ***Vaisheshika* Online Newsletter – A KAAS Initiative**

The Karnataka Association for the Advancement of Science (KAAS) presents *Vaisheshika*, a bimonthly online newsletter launched in October-November 2024. Each issue features the President's Note, Editor's Note, KAAS activities, and articles on science and technology.

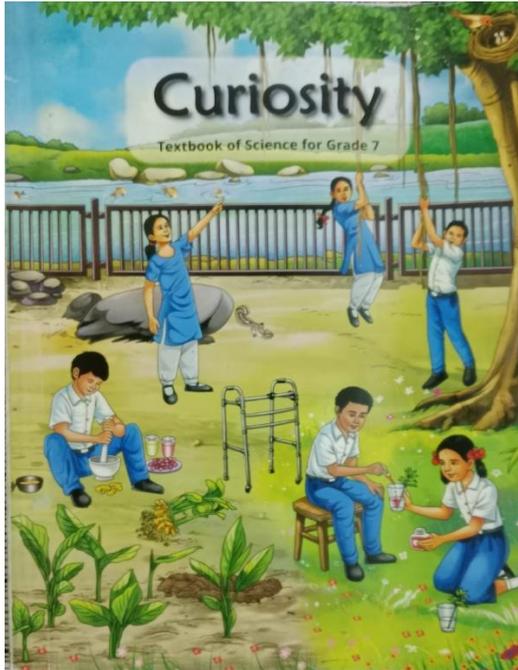
Since its launch, four issues have been published, reflecting KAAS's commitment to promoting scientific knowledge and fostering curiosity among educators, students, and the general public. *Vaisheshika* is available on the KAAS website.

Prof. K. Siddappa, President of KAAS, delivered a webinar on 05.01.2025 organized by the Karnataka Physics Association, discussing the pivotal role of Microtron particle accelerator in advancing interdisciplinary research across nuclear physics, materials science, and medical applications. He emphasized the importance of collaborative efforts to drive innovation and tackle complex scientific challenges.

14. **Planning and preparations** have been made after consultation with the DDPI and CEO of Davanagere district. Fifteen schools have been selected for teacher empowerment with regard to effective teaching, inculcating silks and values to students and, with students help - create public awareness and take the fruits of science to society.

15. **Interaction with headmasters of headmasters** of selected schools by Prof K Siddappa and Prof Iswarappa. They elicited information on what they need in this respect. Officers from the office of DDPI also participated in this discussion.

16. "Curiosity", the science textbook for grade 7, was recently published by the National Council for Education Research and Training. The earth science content in it was developed by a committee headed by Dr R Shankar.



17. KAAS total membership of different categories until last year was 354 (This includes AT LEAST 20 deceased members). In 2024-25, 23 new members joined the Association.

18. Academic activities of H D Ananda for Nov 2024-31ST Mar 2025:

SL NO	DATE	PROGRAM	INSTITUTION	TOPIC	REMARKS
01	07 Nov 2024	Invited talk as Resource person	B.E.T Convent, BEML Layout 3 rd stage, RR Nagar, Bengaluru	Fundamentals of satellites and Rockets	Delivered a talk for about for 1 hour , interactive session with students, Video show
02	11 Nov 2024	Invited talk as Resource person	BMS College of Engineering, Basavanagudi, Bengaluru	Quantum Computing	Delivered a talk for about 90 minutes and interactive

					session with students
03	12 Nov 2024	Chief Guest and Invited talk as Resource person	Vijaya College, Basavanagudi, Bengaluru	Overview of Indian Space Program	Delivered a talk for about 90 minutes and interactive session with students Video show
04	17 Nov 2024	Webinar	Karnataka Physics Association (KPA)	Master Control Facility and Its Activities	Delivered a talk for about an hour and interaction with participants
05	22 Nov 2024	Invited talk as Resource person	Kingdom PU college, Rajarajeshwari Nagar, Bengaluru	Overview of Indian Space Program and Carrier Guidance	Delivered a talk for about 90 minutes and interactive session with students Video show
06	27 Nov 2024	Invited talk as Resource person	RNSIT, Bengaluru	Quantum Computing	Delivered a talk for about 90 minutes and interactive session with students
07	03 Dec 2024	Invited talk as Resource person	RNSIT, Bengaluru	Overview of Indian Space Program	Delivered lecture for 90 minutes , Interaction with students and video show
08	10 Dec 2024	Invited talk as Resource person	RNS Pre university College	Overview of Indian Space program and Career Guidance	Delivered the talk , Interactive session with students and Video show Felicitation was done
09	13 Dec 2024	Invited talk as Resource person for student induction program for PG Dept of Mathematics	MES college of arts , commerce and Science, Malleshwaram, Bengaluru	Quantum Computing	Delivered a talk for about 90 minutes and interactive session with students
10	18 Dec 2024	Chief Guest and Invited talk as a part of 16 th Science workshop for 10 th std students	Smt Parvathamma Shamanur Shivashankarappa Science PU college, Davanagere	Overview of Indian Space program and Career Guidance	Delivered the talk , Interactive session with students and Video show Felicitation was done
11	18 Dec 2024	Invited talk as Resource person	Bapuji Institute of Engineering and	Physics in play at satellite	Delivered the talk , Interactive session

			Technology, Davanagere	control station- Master Control Facility, ISRO,Hassan	with students and Video show
12	19 Dec 2024	Invited talk as Resource person	Bapuji Institute of Engineering and Technology, Davanagere	Quantum Computing	Delivered a talk for about 90 minutes and interactive session with students Felicitation was done
13	21 Dec 2024	Chief Guest to the Annual day program	Mount Carmel English School , RR Nagar, Bengaluru	Delivered speech as chief guest	Felicitation was done
14	04 Jan 2024	Webinar	Creative, Gauribidanur	Physics at play at satellite control station- Master Control Facility, ISRO,Hassan	Delivered a talk for about an hour and interaction with participants
15	11 Jan 2024	Invited talk as Resource person to be delivered	Global Academy of Technology, RR Nagar, Bengaluru	Quantum Computing	Delivered the talk , Interactive session with students and Video show Felicitation was done
16	20 Jan 2025	Invited talk as Resource person	Dr Ambedkar Institute of Technology, Bengaluru	Physics in play at satellite control station- Master Control Facility, ISRO,Hassan	Delivered the talk , Interactive session with students and Video show
17	22 Jan 2025	Invited talk as Resource person	Siddaganga Institute of Technology, Tumkur	Quantum Computing	Delivered the talk , Interactive session with students
18	26 Jan 2025	Chief Guest Invited talk as Resource person Science Exhibition inauguration	Vagdevi's Sammilana 2025 Holekere, Chiradurga	Overview of Indian Space program	Delivered the talk , Interactive session with students and Video show Felicitation was done

19	29 Jan 2025	Chief Guest	Graduation Day, New Cambridge school, Vijaya nagar, Bengaluru		Delivered speech as chief Guest, Prize distribution and Felicitation was done
20	31 Jan 2025	Invited talk as Resource person	Indus International School , Bengaluru	Quantum Computing for High School and PUC students	Delivered the talk , Interactive session with students
21	11 Feb 2025	Invited talk as Resource person	Sri Rajeshwari Vidyashala High School, RR Nagar, Bengaluru	Fundamentals of satellites and Rockets	Delivered the talk , Interactive session with students and Video show
22	28 Feb 2025	National Science day Chief Guest Invited talk as Resource person	RPA First Grade College, Rajaji Nagar, Bengaluru	Overview of Indian Space program	Delivered the talk , Interactive session with students and Video show
23	03 Mar 2025	National Science day Chief Guest Invited talk as Resource person	Govt First Grade College, Kengeri, Bengaluru	Overview of Indian Space program	Delivered the talk , Interactive session with students and Video show
24	04 Mar 2025	Quantum Science for High School Students -9 th Std Invited talk as Resource person	Freedom International school, HSR Layout Bengaluru	Quantum Computing	Delivered the talk , Interactive session with students
25	05 Mar 2025	International Year of Quantum Science and Technology along with KPA Invited talk as Resource person	SJP Govt Polytechnic , Bengaluru	Quantum Computing	Delivered the talk , Interactive session with students
26	07 Mar 2025	National Science day Chief Guest Invited talk as Resource person	ANM women college , Ballari	Quantum Computing	Delivered the talk , Interactive session with students

27	08 Mar 2025	National Science day Chief Guest Invited talk as Resource person	Rao Bahadur y Mahabaleshwarappa engg college,Ballari	Quantum Computing in AI	Delivered the talk , Interactive session with students
28	08 Mar 2025	National Science day Chief Guest Invited talk as Resource person	Rao Bahadur y Mahabaleshwarappa engg college,Ballari	Indian Space Program and Carrier guidance	Delivered the talk , Interactive session with students and Video show
29	13 Mar 2025	Invited talk as Resource person	Vidyavardka College of Engg, Mysore	Overview of Indian Space Program	Delivered the talk , Interactive session with students and Video show
30	17 Mar 2025	Invited talk as Resource person	SJBIT institute of Technology, RR Nagar, Bengaluru	Overview of Indian Space Program	Delivered the talk , Interactive session with students and Video show
31	21 Mar 2025	National Conference on Quantum Technologies, Role of AI in physics teaching, Materials organized by KPA and Vijaya college. Participated as delegate	Vijaya college		Participated in the morning session of the deliberations
32	24 Mar 2025	Invited talk as Resource person	Akash Institute of engg and Technology , Devanahalli	Quantum Computing	Delivered the talk , Interactive session with students and Video show
33	25 Mar 2025	NSD and Invited talk as Resource person	SJBIT institute of Technology, RR Nagar, Bengaluru	Quantum Computing	Delivered the talk , Interactive session with students and Video show
34	27 Mar 2025	One day Workshop on Science communications for B.Sc and B.Ed students	Pilukula Regional Science Center, Mangaluru	Overview of Indian Space program Quantum Computing	Delivered the talk , Interactive session with students and Video show