

Dr. Sudhakar Rao's IEEE APS Distinguished Lecturer Program During May/June 2022

IEEE Antennas & Propagation Society Distinguished Lecturer (DL) Dr. Sudhakar Rao gave six talks titled "Antenna Technologies for 21st Century Satellite and Ground Communications" at various APS/MTT chapters and student chapters in India during 05/02/22 to 06/03/22. All the talks were well attended with an average of 110 attendees. There was good interaction from the audience during Q&A. The first talk was organized by Dr. Sandeep Chaturvedi and Prof. Dasari Ramakrishna of IEEE APS/MTT/EMC chapter of Hyderabad which was held at the Osmania University (Figs. 1 & 2) on 05/02/22. The talk was attended by 60 people with good Q&A session after the talk.



Fig. 1: DL talk at Hyderabad on 05/02/22. Dr. Rao felicitated by Dr. Sandeep Chaturvedi (1st right), Prof. Dasari Ramakrishna (far right) & Prof. Anatha Bharathi (left)



Fig. 2: DL talk at Hyderabad on 05/02/22 (Dr. Sandeep Chaturvedi (left of me in the picture), S. Rao (with blazer in the middle of front row) and Prof. D. Ramakrishna (right of me in the picture). Prof. A. Bharathi (in saree) can also be seen in the front row.

The second talk was organized by the IEEE Student Branch of Raghu Institute of Technology (RIT), Visakhapatnam and chaired by Prof. Chowdary Paladuga and Prof. Sameer Chakravarty on 05/06/22. The talk was well attended by 225 students, faculty and industry professionals with packed auditorium (Figs. 3 & 4). Later, there was a long interaction with students of RIT (Fig. 5).



Fig 3: With attendees at RIT, Visakhapatnam



Fig 4: IEEE SBC at RIT presenting a plaque (Left to Right) are Dr. Naresh of Lendi Institute, Dr. Adinarayana of RIT, Dr. Ramesh Babu of RIT, Dr. Sameer Chakravarthi of RIT and Dr. TSN Murthy of JNTUK, Visakhapatnam



Fig 5: Photo taken during interaction and Q&A with RIT students after the talk

The third DL was held at the IEEE SBC of ToC H Institute of Science & Technology (TIST) at Arakkunnam, Kerala on 05/16/22 coordinated by Prof. Perumal Sankar. It was well attended with over 120 attendees (Figs. 6 to 8).



Fig. 6: Dr. Sudhakar Rao felicitated by TIST staff (Prof. Perumal Sankar (left), Prof. Preethi Tekketh (middle) & Prof. Deepti George (right))



Fig. 7: Dr. S. Rao giving the DL at TIST, Arakkunnam



Fig 8: Dr. S. Rao with DL talk attendees at TIST, Arakkunnam

The fourth DL was organized by the IEEE APS/MTT-S Kerala chapter in association with the Department of Electronics, Cochin University of Science and Technology (CUSAT), Kerala, India on 05/17/22. Prof. Deepti Das Krishna of CUSAT organized the event and about 40 participants attended the talk (Fig. 9). The talk was a good opportunity for the participants to see the latest developments in the hot topic of satellite and ground communications.



Fig 9. Dr Sudhakar Rao (center) with the attendees and Chapter officers

The fifth DL talk was organized by the IEEE AP-S Madras Chapter in association with the IEEE APS/MTT student branch chapter of National Institute of Technology (NIT), Tiruchirappalli on 05/19/22. Prof. S.S. Karthikeyan and Mr. Nrusingha Pradhan organized the event which was attended by 195 students, staff and industry professionals. The talk motivated many students to take up antennas and radars as research topics in their final year project. Prof. Karthikeyan presented the memento to Dr. S. Rao (Fig. 10) and photo with organizers is shown in Fig. 11.



Fig. 10: Prof. S.S. Karthikeyan presenting memento to Dr. Rao



Fig. 11: Dr. S. Rao with the organizers of the event

The last talk of the DL program was held at NIT, Rourkela on 06/03/22, few days prior to the start of WAMS 2022 symposium. It was organized by the IEEE Student

Branch of Rourkela by Prof. Subhashini Ratna and Prof. Deepti Patra. Dr. Rao was felicitated by the NIT Rourkela (Fig. 12) and the picture taken after the talk with organizers and attendees is shown in Fig. 13. The student members are motivated by the demonstration of several complex topics in the antenna design and applications through pictures, animations, informative slides, and videos during the lecture by Dr. Rao and interacted with him after the talk with their questions and research problems.



Fig 12: Dr. Rao felicitated by Prof. Deepti Patra



Fig. 13: Photo taken with attendees of the DL talk in (left) and Prof. K.K. Mahapatra (right) Rourkela

The DL program given by Dr. Sudhakar Rao was highly beneficial to students and young professionals and was successful in providing the motivation for them to take up antenna field for their future studies and career. This being the DL from industry, it attracted lot of attendees that saw how antenna theory is used to design complex antenna systems for satellite and ground applications. This also was the first DL given in India in person post-Covid and was well attended and succeeded in motivating several students, especially from small colleges, to pursue career in antennas & electromagnetics. Thanks to IEEE APS Chair Prof. Kwai Man Luk, IEEE APS YP Chair Dr. C.J. Reddy and all the IEEE APS/MTT chapters and SBCs in India for supporting this DL program.